



GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
ANALYSIS OF RATES
FOR DELHI
(VOL -1)
2014



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FOREWORD

Central Public Works Department Analysis of Rates for Delhi is a very comprehensive and useful document forming basis for the rates of various items. It is based on scientific assessment of Inputs of materials, labour and machinery in various items of work normally involved in civil construction projects.

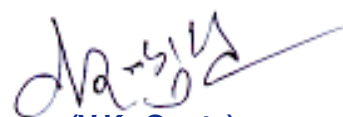
It was first compiled in the year 1950, followed by subsequent publication or revision in the years 1955, 1962, 1972, 1977, 1985, 1997, 2007, 2012 & 2013. Since publication of Analysis of Rates for Delhi -2013, prices of labour and materials have registered substantial increase. Besides the increased cost, there has been a spurt of new construction materials and introduction of Green Building Concept of construction. This has necessitated revision of existing Analysis of Rates for Delhi 2013 to include the above changes. Accordingly, this Analysis of Rates for Delhi 2014 has been prepared.

The analysis of existing items has been updated in conformity with updated items of works in DSR 2014.

I wish to place on record the technical input and the effective coordination on the part of Shri Diwakar Garg, Special D.G.(HQ), Shri Mukesh Vij, ADG (TD), Shri B.B. Dhar, Chief Engineer(CSQ) and the efforts put in by Shri Mathura Prasad, SE TAS (CSQ) and his team of officers in TAS unit in finalizing Analysis of Rates for Delhi 2014 in a record time.

I am sure that C.P.W.D. Analysis of Rates for Delhi 2014 shall be very useful document to various Central Govt. Ministries, Departments & Public Sector Undertakings also besides various units of CPWD.

Place : New Delhi
Date : July 2014


(V.K. Gupta)

PREFACE

1. C.P.W.D. Analysis of Rates for Delhi 2014 is the revised edition of C.P.W.D. Analysis of Rates for Delhi 2013.
2. Analysis of Rates for Delhi 2014 incorporates most of the analysis of items of Analysis of Rates for Delhi 2013 with updated correction slips, including analysis of existing items and also corresponding new items introduced in DSR 2014.
3. Analysis of Rates for Delhi, 2014 is published in two volumes i.e. volume I & II as under:

Volume Number	Sub-head No.	Content/ Sub-head
One	00	Basic Rates
	01	Carriage of materials
	02	Earth Work
	03	Mortars
	04	Concrete Work
	05	Reinforced Cement Concrete
	06	Brick Work
	07	Stone Work
	08	Marble & Granite Work
	09	Wood and PVC Work
	10	Steel Work
	11	Flooring
	12	Roofing
Two	13	Finishing
	14	Repairs to Buildings
	15	Dismantling and Demolishing
	16	Road Work
	17	Sanitary Installations
	18	Water Supply
	19	Drainage
	20	Pile work
	21	Aluminium Work
	22	Water Proofing
	23	Horticulture and Landscaping
	24	Rain Water Harvesting & Tube wells
	25	Conservation of Heritage buildings
	26	Structural Glazing and Composite Aluminium Panel

4. The new items for 100 mm thick M-25, RCC drain covers and M-30 PU mould paver blocks have been introduced in Sub head-16 Road work.

Analysis of few existing items in sub head -20 (pile Work) have been deleted. Similarly, analyses of many items have been modified to correspond to items of DSR 2014. Few new analysis and sub items have been introduced in Analysis of Rates for Delhi 2014.

5. Analysis of Rates for Delhi, 2014 is based on the current market rates of materials at Delhi, collected during the period of March- April 2014. The basic rates of materials, incorporated in the analysis, pertain to materials conforming to BIS Standards/ CPWD Specifications/Materials of good quality generally available in the market. Labour rates are the minimum wages issued by the Government of Delhi w.e.f. 01.04.2014.
6. The nomenclatures of main items have been printed along with the analysis of first Sub item only to conserve the space and number of pages.
7. Sundries have been considered as 1.78 times, based on Cost Index of Delhi as on 01.04.2014 with a base as per PAR-2007.
8. A lot of effort has gone into the preparation of this DAR-2014, I convey my deep appreciation and sincere thanks to Shri Mathura Prasad SE(TAS), Sh.P.P. Singh SE(QA), Shri K.R. Meena EE (TAS-I), Sh. A.K. Goel EE(QA-I), Shri Chhabilal Singh AE, Shri S.C. Saxena AE, Shri Ram Janam Chaudhary JE, Shri Vijay Kumar Chief Estimator, Shri Bahal Singh Sr. Drafts Man, Shri Vijay Singh Sr.Drafts Man, and other officers & staff of TAS unit for sincere efforts made in the preparation of this document in such a short time. Various field units, who contributed field inputs, also deserve appreciation for their timely help.
9. Due care has been taken to print the C.P.W.D. Analysis of Rates for Delhi as correctly as possible. It is, however possible that some errors might have crept in. In case any error or omission is noticed, it may be brought to the notice of the Superintending Engineer (TAS), CPWD, Room no. 418, A-wing, Nirman Bhawan, New Delhi.



(Mukesh Vij)
ADG (TD), CPWD,
Nirman Bhawan, New Delhi.

New Delhi
June, 2014

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BASIC RATES

BASIC RATES

0.1 HIRE CHARGES OF PLANTS

Code No.	Description	Unit	Rate ₹
0001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	830.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	1500.00
0004	Production cost of concrete by batch mix plant	cum	350.00
0005	Hire charges of Diesel Truck - 9 tonne	day	1700.00
0006	Hire charges of Spraying machine including electric charges	day	250.00
0007	Hire charges of Coaltar Sprayer	day	300.00
0008	Hire charges of Barber green, drying, mixing and Asphalt Plant, with accessories, capacity 30/45 tonne	day	7700.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	150.00
0010	Hire charges of Derrick monkey rope	day	800.00
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	600.00
0012	Vibrator (Needle type 40 mm)	day	350.00
0013	Machine for rubbing of floors	day	350.00
0014	Front end loader capacity 1.00 cum	day	5000.00
0015	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories	day	6000.00
0016	Mastic Cooker	day	750.00
0017	Hire and running charges of tipper	day	1700.00
0018	Hire and running charges of loader	day	5000.00
0019	Hand Grinder for mirror polish	day	250.00
0020	Hydraulic Excavator (3D) with driver and fuel	day	8000.00
0021	Pin vibrator	day	350.00
0022	Surface Vibrator	day	400.00
0023	Hot Bitumen Mixer 0.5 cum i/c hand cart	day	4000.00
0024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site	day	34000.00
0025	Hire and running charges of light crane	day	2200.00
0026	Hire and running charges of bentonite pump	day	4200.00
0027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories	day	35000.00
0028	Hire and running charges of crane 20 tonne capacity	day	9300.00
0029	Carriage of concrete by transit mixer	km/cum	30.00
0030	Generator 250 KVA	day	2300.00
0033	Paint applicator	day	750.00
0037	Mobile crane	day	7000.00
0038	Tractor with ripper attachment	day	1350.00
0039	Tractor with trolley	day	1500.00
0040	Air compressor 250 cfm with two leads for pneumatic cutters / hammers	day	2000.00

Code No.	Description	Unit	Rate ₹
0041	Joint cutting machine with 2-3 blades	day	1100.00
0042	C.C .batch mix plant	day	10000.00
0043	Road sweeper	day	550.00
0045	Slip form paver with sensor	day	13000.00
0046	Water tanker 5000 litre	day	1000.00
0047	Concrete joint cutting machine	day	900.00
0048	Texturing machine	day	925.00
	Note :- Above hire - charges include cost of services of operating staff and supply of lubricating oil.		
0049	Dozer D-80-A 12	hour	1750.00
0050	Motor Grader 3.35 metre blade	hour	2450.00
0051	Hydraulic Excavator of 1 cum bucket	hour	1200.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	900.00
0053	Tipper -5 Cum	tonne km	3.00
0054	Vibratory roller 8 to 10 tonne	hour	1300.00
0055	Smooth Wheeled Roller 8 to 10 tonne	hour	450.00
0056	Tandem Road Roller	hour	1150.00
0057	Water Tanker 5 to 6 KL capacity	hour	150.00
0058	Air compressor	hour	325.00
0059	Wet Mix Plant 60 TPH	hour	1200.00
0060	Mechanical Broom Hydraulic	hour	360.00
0061	Emulsion Pressure Distributor @ 1750 sqm per hour	hour	800.00
0062	Hot mix Plant -120 TPH capacity	hour	23700.00
0063	Hot mix Plant 100 TPH Capacity	hour	17500.00
0064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	2700.00
0065	Paver finisher Mechanical 100 TPH	hour	1000.00
0066	Batching and Mixing Plant @ 75 cum per hour	hour	2500.00
0068	Concrete Paver finisher with 40 HP Motor and sensor	hour	2900.00
0069	Generator 250 KVA	hour	700.00
0070	Generator 100 KVA/125 KVA	hour	500.00
0071	Truck 5.5 cum/ 10 tonnes	tonne km	3.00
0075	Road sweeper (Mechanical Broom) @ 1250 sqm per hour	hour	360.00
0076	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	14000.00
0080	Hire and running charges of drill machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary soil and operator)	day	7500.00
0081	Pile Integrity testing equipment	day	3000.00

Code No.	Description	Unit	Rate ₹
0082	Excavation of Diaphragm wall by Mechanical Grab Note :- Above hire - charges (from item code 0049 to 0082) include cost of services of operating staff, supply of lubricating oil and diesel also.	sqm	1500.00
0083	Hire charges of TATA 407 or equivalent for local shifting.	Day	1300.00

BASIC RATES

0.2 LABOUR

Note :- These rates are exclusive of contractor's profit and over heads and are inclusive of wages for weekly day of rest

Code No.	Description	Unit	Rate ₹
0100	Bandhani	day	363.00
0101	Bhisti	day	363.00
0102	Blacksmith 1 st class	day	435.00
0103	Blacksmith 2nd class	day	399.00
0111	Carpenter 1 st class	day	435.00
0112	Carpenter 2nd class	day	399.00
0113	Chowkidar	day	329.00
0114	Beldar	day	329.00
0115	Coolie	day	329.00
0116	Fitter (grade 1)	day	435.00
0117	Assistant Fitter or 2nd class Fitter	day	399.00
0119	Glazier	day	399.00
0122	Mason (for plaster of paris work) 1 st class	day	435.00
0123	Mason (brick layer) 1 st class	day	435.00
0124	Mason (brick layer) 2nd class	day	399.00
0125	Mason (for plain stone work) 2nd class	day	399.00
0126	Mason (for ornamental stone work) 1 st class	day	435.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	435.00
0128	Mate	day	363.00
0130	Mistry	day	435.00
0131	Painter	day	399.00
0132	Rock Excavator	day	329.00
0133	Rock Breaker	day	329.00
0134	Rock Hole Driller	day	329.00
0135	Stone Chiseller	day	363.00
0138	Sprayer (for bitumen, tar etc.)	day	363.00
0139	Skilled Beldar (for floor rubbing etc.)	day	363.00
0141	White Washer	day	363.00
0155*	Mason (average)	day	417.00
0156*	Carpenter (average)	day	417.00
0157	Operator (Pile/ Special machine)	day	435.00

Code No.	Description	Unit	Rate ₹
0159	Skilled torch operator for laying tack	day	435.00
0160	Technician	day	700.00
0161	Helper (Technician)	day	329.00

Note :- * These rates are average of 1st class and 2nd class categories.
This is for use in the analysis of rate only.

BASIC RATES

0.3 MATERIALS

Note :- These rates are exclusive of contractor's profit, over heads and carriage but include octroi, royalty, sales tax (VAT) etc.

Code No.	Description	Unit	Rate ₹
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	40.00
0223	Fibre (high impact poly propylene reinforced) cement corrugated sheet 6 mm thick	sqm	250.00
0224	Fibre (high impact poly propylene reinforced) cement close fitting adjustable ridge	metre	210.00
0225	Fibre (high impact poly propylene reinforced) cement corrugate serrated adjustable ridge	metre	210.00
0226	Fibre (high impact poly propylene reinforced) cement plain wing adjustable ridge	metre	210.00
0227	Fibre (high impact poly propylene reinforced) cement unserrated adjustable ridge for hips	metre	300.00
0228	Fibre (high impact poly propylene reinforced) cement corrugated apron piece	metre	225.00
0229	Fibre (high impact poly propylene reinforced) cement eaves filler piece	each	175.00
0230	Fibre (high impact poly propylene reinforced) cement north light curves	metre	310.00
0231	Fibre (high impact poly propylene reinforced) cement ventilator curves	each	418.00
0232	Fibre (high impact poly propylene reinforced) cement barge boards boards 6 mm thick	metre	418.00
0233	Fibre (high impact poly propylene reinforced) cement ridge finial	pair	165.00
0234	Fibre (high impact poly propylene reinforced) cement special north light curves	each	560.00
0235	Fibre (high impact poly propylene reinforced) cement S type louvers	each	260.00
0236	Multi purpose fibre (high impact poly propylene reinforced) cement board 6 mm thick	sqm	210.00
0237	Multi purpose fibre (high impact poly propylene reinforced) cement board 8 mm thick	sqm	260.00
0285	Brick Aggregate (Single size) : 63 mm nominal size	cum	600.00
0286	Brick Aggregate (Single size) : 50 mm nominal size	cum	600.00
0287	Brick Aggregate (Single size) : 40 mm nominal size	cum	600.00
0291	Stone Aggregate (Single size) : 63 mm nominal size	cum	1050.00
0292	Stone Aggregate (Single size) : 50 mm nominal size	cum	1050.00
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	1050.00
0294	Stone Aggregate (Single size) : 25 mm nominal size	cum	1050.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1175.00
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	1175.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1175.00
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	1140.00
0302	Safeda ballies 125 mm diameter	metre	42.00

Code No.	Description	Unit	Rate ₹
0303	Cowdung	cum	48.00
0304	Bajri	cum	1150.00
0305	Bamboo 25 mm dia 2.5 metre long	score	350.00
0308	Bhusa	quintal	500.00
0309	Paving bitumen of grade VG-10 of approved quality	tonne	50600.00
0310	Bitumen emulsion	tonne	39040.00
0312	Bitumen grade PMB - 40	tonne	59000.00
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	49600.00
0314	Bitumen hot sealing compound : grade A	kilogram	28.00
0316	Bitumen solution primer of approved quality	litre	50.00
0317	Premoulded joint filler 12 mm thick	sqm	350.00
0318	Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade I	sqm	70.00
0319	Bitumen felt as per IS 7193 Grade II	sqm	80.00
0322	Bitumen felt :Type 3 grade 1	sqm	70.00
0323	Separation Membrane of impermeable plastic sheeting 125 micron thick	sqm	12.00
0324	Coal Tar	litre	30.00
0325	Blasting powder	kilogram	35.00
0326	Blasting fuse (fuse wire)	each	15.00
0328	White face insulating board:12 mm thick	sqm	360.00
0332	Natural colour insulating board:12 mm thick	sqm	280.00
0336	Flame retardant face insulating board: 12 mm thick	sqm	320.00
0339	Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	350.00
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	330.00
0346	Extra for veneered particle board with Teak veneering on one side and commercial veneering on other side	sqm	270.00
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	180.00
0348	Extra for veneered particle board with Teak veneering both sides	sqm	500.00
0349	Curing compound	litre	50.00
0362	Brick bats	cum	500.00
0364	Wire brush	each	20.00
0365	Soft brush	each	18.00
0367	Portland Cement	tonne	6300.00
0368	White Cement	tonne	14000.00
0369	Plastic sheath,1.25 mm thick for dowel bars	sqm	30.00
0370	Coal (steam)	quintal	400.00
0371	Sealant primer	kg	125.00
0373	Cramp Gun metal 25x6x300 mm	each	80.00
0374	Pre moulded Joint filler, 25 mm thick for expansion joint.	sqm	500.00
0378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	860.00
0379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	720.00
0380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	450.00
0381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	200.00

Code No.	Description	Unit	Rate ₹
0382	Brass butt hinges (heavy type) : 125x85x5.5 mm(0.70 kg)	10 Nos	3300.00
0383	Brass butt hinges (heavy type) : 100x85x5.5 mm(0.56 kg)	10 Nos	2800.00
0384	Brass butt hinges (heavy type) : 75x65x4.0 mm(0.20 kg)	10 Nos	1000.00
0385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	2950.00
0386	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	2600.00
0387	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	2400.00
0388	Brass parliamentary hinges 75x100x20x3.2 mm	10 Nos	1800.00
0389	Brass single acting spring hinges 150 mm	each	320.00
0390	Brass single acting spring hinges 125 mm	each	280.00
0391	Brass single acting spring hinges 100 mm	each	180.00
0392	Brass double acting spring hinges 150 mm	each	520.00
0393	Brass double acting spring hinges 125 mm	each	380.00
0394	Brass double acting spring hinges 100 mm	each	330.00
0400	Brass tower bolt (barrel type) 250x10 mm	each	240.00
0401	Brass tower bolt (barrel type) 200x10 mm	each	190.00
0402	Brass tower bolt (barrel type) 150x10 mm	each	150.00
0403	Brass tower bolt (barrel type) 100x10 mm	each	100.00
0404	Brass flush bolt 250 mm	each	150.00
0405	Brass flush bolt 150 mm	each	130.00
0406	Brass flush bolt 100 mm	each	90.00
0408	Brass handles 125 mm with plate 175x32 mm	each	150.00
0409	Brass handles 100 mm with plate 150x32 mm	each	140.00
0410	Brass handles 75 mm with plate 125x32 mm	each	110.00
0411	Brass door latch 300x16x5 mm (0.380 kg)	each	180.00
0412	Brass door latch 250x16x5 mm (0.350 kg)	each	170.00
0413	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	390.00
0414	Brass mortice latch 100x65mm with a pair of brass lever handles	each	330.00
0417	Brass 150 mm floor door stopper (0.357kg)	each	170.00
0418	Brass hard drawn hooks and eyes 300 mm	10 Nos	750.00
0419	Brass hard drawn hooks and eyes 250 mm	10 Nos	700.00
0420	Brass hard drawn hooks and eyes 200 mm	10 Nos	645.00
0421	Brass hard drawn hooks and eyes 150 mm	10 Nos	620.00
0422	Brass hard drawn hooks and eyes 100 mm	10 Nos	525.00
0423	Brass casement window fastener	each	60.00
0424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	145.00
0425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.2]8 kg	each	120.00
0426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	110.00
0427	Brass quadrant stays 300 mm	each	125.00
0428	Brass fanlight catch	10Nos	175.00

Code No.	Description	Unit	Rate ₹
0429	Brass fanlight pivot	10 Nos	195.00
0430	Brass chain with hook for fan light catch	each	40.00
0431	Brass hasps and staples (safety type) 150 mm	10 Nos	800.00
0432	Brass hasps and staples (safety type) 115 mm	10 Nos	670.00
0433	Brass hasps and staples (safety type) 90 mm	10 Nos	570.00
0438	Brass night latch	each	500.00
0442	Brass helical spring 150 mm	each	310.00
0444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	115.00
0445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	135.00
0446	Brass brackets (curtain rods) 20 mm	each	42.00
0447	Brass cupboard knob or wardrobe knob 50 mm	each	35.00
0449	Brass screws 50 mm	100 Nos	220.00
0450	Brass screws 40 mm	100 Nos	170.00
0451	Brass screws 30 mm	100 Nos	140.00
0452	Brass screws 25 mm	100 Nos	100.00
0453	Brass screws 20 mm	100 Nos	95.00
0524	Chromium plated Brass butt hinges (heavy) type 75x65x4 mm (200gms)	10 Nos	1000.00
0525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4mm	10 Nos	850.00
0526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10Nos	700.00
0527	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5 mm	10Nos	460.00
0528	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5 mm	10Nos	200.00
0555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	200.00
0556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	175.00
0557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	150.00
0558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	600.00
0568	Chromium plated brass casement window fastener	each	100.00
0569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	170.00
0570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	140.00
0571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	125.00
0583	Chromium plated Brass Night latch	each	550.00
0584	Chromium plated Brass Wardrobe Knob 50 mm	each	50.00
0585	Chromium plated Brass screws 50 mm	100 Nos	250.00
0586	Chromium plated Brass screws 40 mm	100Nos	220.00
0587	Chromium plated Brass screws 30 mm	100 Nos	160.00
0588	Chromium plated Brass screws 25 mm	100 Nos	125.00
0589	Chromium plated Brass screws 20 mm	100 nos	100.00
0590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	200.00
0591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	260.00
0592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	370.00

Code No.	Description	Unit	Rate ₹
0594	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 Nos	145.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	90.00
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 nos	65.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	55.00
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	42.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	68.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	52.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	42.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	38.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	32.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	8.00
0642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	150.00
0643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	95.00
0644	Oxidised mild steel butt hinges 75x47x1.70 mm	10 Nos	70.00
0645	Oxidised mild steel butt hinges 50x37x1.50 mm	10 Nos	60.00
0646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	350.00
0647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	325.00
0648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	240.00
0649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	220.00
0650	Oxidised mild steel single acting spring hinges 150 mm	each	120.00
0651	Oxidised mild steel single acting spring hinges 125 mm	each	110.00
0652	Oxidised mild steel single acting spring hinges 100 mm	each	90.00
0653	Oxidised mild steel double acting spring hinges 150 mm	each	115.00
0654	Oxidised mild steel double acting spring hinges 125 mm	each	120.00
0655	Oxidised mild steel double acting spring hinges 100 mm	each	95.00
0656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	50.00
0660	Oxidised mild steel sliding door bolt 300x16 mm	each	100.00
0661	Oxidised mild steel sliding door bolt 250x16 mm	each	95.00
0662	Oxidised mild steel door latch 300x20x6 mm	each	50.00
0663	Oxidised mild steel door latch 250x20x6 mm	each	42.00
0664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	48.00
0665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	42.00
0666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	32.00
0667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	27.00
0668	Oxidised mild steel handles 125 mm	each	20.00
0669	Oxidised mild steel handles 100 mm	each	18.00
0670	Oxidised mild steel handles 75 mm	each	16.00
0679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 Nos	130.00
0680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 Nos	110.00

Code No.	Description	Unit	Rate ₹
0681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 Nos	80.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.00
0683	Oxidised mild steel screws 40 mm	100 Nos	65.00
0684	Oxidised mild steel screws 30 mm	100 Nos	50.00
0685	Oxidised mild steel screws 25 mm	100 Nos	50.00
0686	Oxidised mild steel screws 20 mm	100 Nos	38.00
0687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	590.00
0688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	540.00
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	530.00
0690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	520.00
0691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	520.00
0692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	510.00
0693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	490.00
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	400.00
0696	Anodised Aluminium sliding door bolt 300x16 mm	each	170.00
0697	Anodised Aluminium sliding door bolt 250x16 mm	each	135.00
0698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos	775.00
0699	Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 Nos	630.00
0700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	495.00
0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos	395.00
0702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	315.00
0703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	520.00
0704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	395.00
0705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	335.00
0706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	135.00
0713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	1800.00
0714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	1600.00
0715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	1500.00
0717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	1200.00
0718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	1050.00
0719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	960.00
0752	Block board construction flush door lipping	sqm of door area	315.00
0753	Square vision panel in Block board construction flush door	sqm of door area	120.00
0754	Circular vision panel in Block board construction flush door	sqm of door area	195.00
0755	Decorative type louvers in Block board construction flush door	sqm of door area	325.00

Code No.	Description	Unit	Rate ₹
0757	Rebate cutting in block board construction flush door	sqm of door area	90.00
0759	Decorative plywood 4 mm	sqm	430.00
0761	Fuel wood	quintal	525.00
0763	Glue	kilogram	70.00
0765	Hessian cloth	sqm	45.00
0768	Cement Concrete Jali 50 mm thick	sqm	210.00
0769	Cement Concrete Jali 40 mm thick	sqm	180.00
0770	Cement Concrete Jali 25 mm thick	sqm	150.00
0771	Kerosene oil	litre	48.00
0773	Unslaked lime	quintal	300.00
0775	Dehradun white lime	quintal	650.00
0776	Satna lime	quintal	500.00
0777	Dry hydrated lime (factory made)	quintal	230.00
0784	Marble dust/ powder	cum	1000.00
0785	Marble chips up to 4 mm and down size White & black	quintal	220.00
0788	Marble chips large size above 4 mm White & black	quintal	210.00
0801	Silicon and acrylic emulsion	litre	200.00
0802	Acrylic distemper 1st quality , having VOC content less than 50 grams/ litre	Kg	40.00
0803	Acrylic emulsion, having VOC content less than 50 grams/ litre	litre	250.00
0804	Premium acrylic emulsion of interior grade, having VOC content less than 50 grams/ litre	litre	350.00
0805	Synthetic enamel paint , having VOC (Volatile Organic Compound) content less than 150 grams/ litre	litre	220.00
0806	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	litre	125.00
0807	Ready mixed red oxide zinc chromatic on steel/ iron work, having VOC content less than 250 grams/ litre	litre	130.00
0808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre	litre	80.00
0809	Exterior primer	kilogram	40.00
0810	Moorum	cum	450.00
0811	Mud (dry)	cum	65.00
0815	Dry distemper	kilogram	36.00
0816	Oil bound washable distemper/ Acrylic distemper	kilogram	55.00
0818	Linseed oil (double boiled)	litre	120.00
0820	Cement primer	litre	115.00
0821	Distemper primer	litre	90.00
0823	Pink primer (for wood)	litre	90.00
0824	White cement based putty	kg	24.00
0826	Aluminium paint	litre	160.00
0827	Acid proof paint (chocolate or black)	litre	200.00
0828	Anticorrosive bituminous paint (black)	litre	115.00

Code No.	Description	Unit	Rate ₹
0829	Black Japan paint	litre	100.00
0830	Enamel paint	litre	210.00
0831	Floor enamel paint in all shades except green	litre	145.00
0833	Synthetic enamel paint in black or chocolate shade	litre	180.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	160.00
0835	Plastic emulsion paint	litre	210.00
0845	Roofing paint for iron sheets in red colour	litre	130.00
0850	White lead	kilogram	150.00
0851	Water proofing cement paint	kilogram	45.00
0855	Wax polish (ready made)	kilogram	260.00
0856	Ordinary varnish	litre	100.00
0857	Superior copal varnish	litre	190.00
0858	Superior spar varnish	litre	190.00
0859	Oil type wood preservative	litre	150.00
0863	Putty for wood work	kilogram	30.00
0865	Pig lead	kilogram	120.00
0868	Premixed super white gypsum plaster.	kg	7.00
0869	Plaster of Paris	kilogram	4.50.00
0870	Plug	each	12.00
0873	Copper pins 6 mm dia 7.5 cm long	each	11.00
0874	Black colour dark shade pigment	kilogram	55.00
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	75.00
0876	Green or blue medium shade pigment	kilogram	70.00
0886	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	30.00
0966	Sand Cast iron plain shoe 150 mm dia	each	310.00
0967	Copper plate	kilogram	270.00
0969	Pulley 25 mm dia	each	40.00
0973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	1300.00
0974	Top cover for rolling shutters 1.25 mm thick	metre	620.00
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	280.00
0976	Ball bearing for rolling shutters	each	330.00
0977	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 10.00 sqm and up to 16.80 sqm area of door	sqm	600.00
0978	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 16.80 sqm area of door	sqm	600.00
0979	Royalty for good earth	cum	30.00
0980	Royalty for sludge	cum	90.00
0982	Coarse sand (zone III)	cum	1200.00
0983	Fine sand (zone IV)	cum	700.00
0992	Galvanised steel plain sheets	quintal	5350.00

Code No.	Description	Unit	Rate ₹
0994	Standard quality hard board sheet 3 mm thick	sqm	125.00
0996	Standard quality hard board sheet 4.5 mm thick	sqm	150.00
0999	Shellac	kilogram	3000.00
1000	Spirit	litre	70.00
1001	Spun yarn	kilogram	40.00
1002	Mild steel round bar 12 mm dia and below	quintal	4500.00
1003	Mild steel round bar above 12 mm dia	quintal	4400.00
1004	Average rate of Mild steel round bars for reinforcement	quintal	4500.00
1005	Twisted steel/ deformed bars	quintal	4759.00
1006	Mild steel square bars	quintal	4500.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	4636.00
1008	Flats up to 10 mm in thickness	quintal	4200.00
1009	Flats exceeding 10 mm in thickness	quintal	4300.00
1010	Mild steel plates	quintal	4500.00
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	52.00
1013	Mild steel sheets for tanks	quintal	5000.00
1015	Mild steel expanded metal 20x60 mm strands	sqm	300.00
1019	Mild steel hooks	each	35.00
1020	Mild steel rivets	quintal	5200.00
1021	Hard drawn steel wire fabric	sqm	440.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mmlong round head with slots	10 Nos	25.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	120.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	12.00
1025	Mild steel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	30.00
1028	Straining bolts	each	70.00
1029	Galvanised steel barbed wire	quintal	5200.00
1030	Galvanised steel turn buckles	each	19.00
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	25.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	20.00
1034	Bolts and nuts up to 300 mm in length	quintal	5600.00
1035	Bolts and nuts above 300 mm in length	quintal	5800.00
1036	Iron pintels including welded pin	each	40.00
1143	Steel beading	metre	27.00
1145	Aluminium Plain Strip edging 38x12x3 mm	metre	100.00
1149	Glass strip 4 mm thick 40 mm deep	metre	20.00
1151	Boundary stone top chisel dressed 15x15x90 cm	each	70.00
1154	Through and bond stone	100 Nos	1300.00
1157	Stone for masonry work	cum	900.00
1158	Stone for pitching 15 cm x 22.5 cm	cum	450.00

Code No.	Description	Unit	Rate ₹
1159	Stone dust	cum	1100.00
1160	Red sand stone block	10 cudm	65.00
1161	White sand stone block	10 cudm	70.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	350.00
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	180.00
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	200.00
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	200.00
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	300.00
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	290.00
1174	Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	175.00
1175	White sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	220.00
1177	Stone grit 6 mm and down size or pea sized gravel	cum	1140.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	1100.00
1182	Surkhi	cum	700.00
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	1100.00
1187	First class teak wood in scantling	10 cudm	880.00
1188	First class teak wood in planks	10 cudm	850.00
1189	Second class teak wood in scantling	10 cudm	660.00
1190	Second class teak wood in planks	10 cudm	750.00
1194	Second class deodar wood in planks	10 cudm	500.00
1196	First class kail wood in planks	10 cudm	310.00
1197	Second class kail wood in scantling	10 cudm	260.00
1198	Second class kail wood in planks	10 cudm	260.00
1199	Sal wood in scantling	10 cudm	530.00
1200	Kiln seasoned selected sheesham wood planks	10 cudm	650.00
1201	Precast terrazzo tiles 22 mm thick (light shade)	sqm	350.00
1202	Precast terrazzo tiles 22 mm thick (medium shade)	sqm	300.00
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	300.00
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	467.00
1207	G.I. Limpet washer	100 nos	35.00
1208	Bitumen washer	100 Nos	30.00
1209	G.I. plain washer thick	100 Nos	35.00
1210	G.I. plain washer thin	100 Nos	32.00
1211	G.I. plain washer for seam bolts	100 Nos	30.00
1213	Water proofing materials	kilogram	35.00
1214	Welding by gas plant	cm	2.00
1215	Welding by electric plant	cm	2.00
1216	Whiting	quintal	600.00
1219	Wire nails	kilogram	65.00
1220	Wire mesh (rabbit)	sqm	45.00
1221	20 mm dia holding down bolts	quintal	6000.00

Code No.	Description	Unit	Rate ₹
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	130.00
1224	Hard drawn steel wire	quintal	5500.00
1225	Mild steel flat strap fitting	quintal	5000.00
1227	Chequered terrazzo tiles 22 mm thick(light shade)	sqm	275.00
1228	Chequered terrazzo tiles 22 mm thick(medium shade)	sqm	300.00
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	260.00
1231	Extra for selected planks of second class teakwood	10 cudm	150.00
1234	Aluminium Plain Strip edging 57x12x3 mm	metre	135.00
1235	Diesel oil	litre	55.49
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	10.00
1238	Extra for selected planks of first class teakwood	10 cudm	150.00
1239	18 mm thick Flamed finish granite stone slab	sqm	2000.00
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	3600.00
1241	Commercial LPG in cylinder	kg	88.00
1242	Glass mosaaic tiles (20 mm x 20 mm x 4 mm).	sqm	1200.00
1243	Tile fixing chemical adhesive	kg	25.00
1244	Cement Polymer Grout Compound	kg	30.00
1245	Acid for cleaning tiles	litre	18.00
1301	Bleaching powder	quintal	1750.00
1304	Surface box for stop cock	each	125.00
1305	Surface box for sluice valve	each	210.00
1307	Surface box for water meter	each	250.00
1309	C.I. bracket for wash basin and sinks	pair	70.00
1314	C.P.brass chain with 32 mm dia rubber plug	each	40.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	40.00
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	35.00
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	20.00
1332	M.S.Holder bat clamp of approved design for 75 mm S.C.I. pipe	each	18.00
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	28.00
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	30.00
1336	Clearing eye with chain and lid 100 mm dia	each	44.00
1337	Clearing eye with chain and lid 150 mm dia	each	50.00
1339	Brass bib-cock 15 mm dia	each	210.00
1340	Brass bib-cock 20 mm dia	each	225.00
1342	Brass stop-cock 15 mm dia	each	210.00
1343	Brass stop-cock 20 mm dia	each	280.00
1350	Mosquito proof coupling of approved design	each	30.00
1352	C.I. cover and frame 300x300 mm inside	each	300.00
1353	C.I.cover without frame 300x300 mm inside i/c cover of 4.50 kg	each	225.00
1354	Rectangular cover 455x610 mm with frame (low duty)	each	1500.00
1355	Rectangular cover 455x610 mm without frame (low duty)	each	1000.00

Code No.	Description	Unit	Rate ₹
1356	500 mm dia cover with frame (medium duty)	each	4750.00
1357	500 mm dia cover without frame (medium duty)	each	2300.00
1360	C.I.mouth, brass ferrule 15 mm dia	each	140.00
1361	C.I.mouth, brass ferrule 20 mm dia	each	160.00
1362	C.I.mouth, brass ferrule 25 mm dia	each	220.00
1363	Vitreous china foot rests 250x130x30 mm	pair	100.00
1364	C.I. grating 100x100 mm	each	15.00
1366	C.I. grating 150x150 mm	each	25.00
1367	C.I. grating 180x180 mm	each	30.00
1369	S.C.I. gully or nahani grating 100 mm dia	each	18.00
1373	Rubber insertions for 80 mm dia pipe joints	each	15.00
1374	Rubber insertions for 100 mm dia pipe joints	each	18.00
1375	Rubber insertions for 125 mm dia pipe joints	each	20.00
1376	Rubber insertions for 150 mm dia pipe joints	each	20.00
1377	Rubber insertions for 200 mm dia pipe joints	each	25.00
1378	Rubber insertions for 250 mm dia pipe joints	each	40.00
1379	Rubber insertions for 300 mm dia pipe joints	each	45.00
1380	Rubber insertions for 350 mm dia pipe joints	each	50.00
1381	Rubber insertions for 400 mm dia pipe joints	each	73.00
1382	Rubber insertions for 450 mm dia pipe joints	each	92.00
1383	Rubber insertions for 500 mm dia pipe joints	each	110.00
1384	Rubber insertions for 600 mm dia pipe joints	each	125.00
1392	Mirror of superior make glass 60x45 cm	each	310.00
1396	Vitreous china pedestal for wash basin	each	700.00
1397	Pig lead	kilogram	90.00
1464	S & S.C.I. standard specials upto 300 mm dia (heavy class)	quintal	3600.00
1466	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	3700.00
1468	Flanged C.I. standard specials upto 300 mm dia (heavy class)	quintal	5500.00
1470	Flanged C.I. standard specials over 300 mm dia (heavy class)	quintal	5800.00
1472	Casing pipe 100 mm dia	metre	335.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	270.00
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	400.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	520.00
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	600.00
1540	Flush pipe and spreaders G.I. for single set of one squatting plate urinal	each	175.00
1541	Flush pipe and spreaders G.I. for range of two squatting plates urinal	each	250.00
1542	Flush pipe and spreaders G.I. for range of three squatting plates urinal	each	300.00
1543	Flush pipe and spreaders G.I. for range of four squatting plates urinal	each	390.00

Code No.	Description	Unit	Rate ₹
1545	G.I. pipes 15 mm dia	metre	105.00
1546	G.I. pipes 20 mm dia	metre	125.00
1547	G.I. pipes 25 mm dia	metre	160.00
1548	G.I. pipes 32 mm dia	metre	180.00
1549	G.I. pipes 40 mm dia	metre	220.00
1550	G.I. pipes 50 mm dia	metre	275.00
1551	G.I. pipes 65 mm dia	metre	365.00
1552	G.I. pipes 80 mm dia	metre	460.00
1555	G.I. back (jam) nuts 25 mm dia	each	10.00
1559	G.I. back (jam) nuts 65 mm dia	each	22.00
1608	G.I. tees (equal) 25 mm	each	45.00
1612	G.I. tees (equal) 65 mm	each	280.00
1614	G.I. inlet connection	each	65.00
1616	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75 mm dia	each	950.00
1617	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100 mm dia	each	1150.00
1618	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 150 mm dia	each	1750.00
1620	S.C.I. plain bend 75 mm dia	each	170.00
1621	S.C.I. plain bend 100 mm dia	each	350.00
1622	S.C.I. plain bend 150 mm dia	each	600.00
1624	S.C.I. bend with access door 75 mm dia	each	200.00
1625	S.C.I. bend with access door 100 mm dia	each	252.00
1627	S.C.I. plain single equal junctions 75x75x75 mm dia	each	265.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	450.00
1630	S.C.I. single equal junctions 75x75x75 mm dia with access door	each	278.00
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door	each	376.00
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	346.00
1634	S.C.I. plain double equal junctions 100x100x100x100 mm dia	each	520.00
1636	S.C.I. double equal junctions 75x75x75x75 mm dia with access door	each	425.00
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door	each	550.00
1639	Slotted cowl (terminal guard) 75 mm dia	each	151.00
1640	Slotted cowl (terminal guard) 100 mm dia	each	190.00
1641	G.I. Union 15 mm nominal bore	each	55.00
1642	G.I. Union 20 mm nominal bore	each	75.00
1643	G.I. Union 25 mm nominal bore	each	85.00
1644	G.I. Union 32 mm nominal bore	each	120.00
1645	G.I. Union 40 mm nominal bore	each	185.00
1646	G.I. Union 50 mm nominal bore	each	220.00
1647	G.I. Union 65 mm nominal bore	each	430.00
1648	G.I. Union 80 mm nominal bore	each	510.00

Code No.	Description	Unit	Rate ₹
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	5.30
1653	Sand cast iron S&S plain single unequal junctions: 100x100x75 mm dia	each	370.00
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door	each	400.00
1659	Sand cast iron S&S plain double unequal junctions:100x100x75x75 mm dia	each	550.00
1662	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door	each	550.00
1666	Sand cast iron heel rest bend 75 mm dia	each	220.00
1667	Sand cast iron heel rest bend 100 mm dia	each	250.00
1669	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	320.00
1670	S.C.I. single equal invert branch of required degree 100x100x100 mm dia	each	410.00
1672	S.C.I. double equal invert branch of required degree 75x75x75x75 mm dia	each	410.00
1673	S.C.I. double equal invert branch of required degree 100x100x100x100 mm dia	each	550.00
1674	S.C.I. single unequal invert branch of required degree 100x100x75 mm dia	each	495.00
1677	S.C.I. double unequal invert branch of required degree 100x100x75x75 mm dia	each	570.00
1682	S.C.I. door pieces 75 mm dia	each	275.00
1683	S.C.I. door pieces 100 mm dia	each	400.00
1685	S.C.I. collar 75 mm dia	each	113.00
1686	S.C.I. collar 100 mm dia	each	143.00
1687	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	30.00
1688	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	35.00
1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	35.00
1690	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	48.00
1693	S.C.I. hand pump	each	670.00
1700	R.C.C. pipes NP2 class 100 mm dia	metre	200.00
1701	R.C.C. pipes NP2 class 150 mm dia	metre	210.00
1702	R.C.C. pipes NP2 class 250 mm dia	metre	260.00
1703	R.C.C. pipes NP2 class 300 mm dia	metre	300.00
1704	R.C.C. pipes NP2 class 450 mm dia	metre	400.00
1705	R.C.C. pipes NP2 class 500 mm dia	metre	580.00
1706	R.C.C. pipes NP2 class 600 mm dia	metre	920.00
1707	R.C.C. pipes NP2 class 700 mm dia	metre	1050.00
1709	R.C.C. pipes NP2 class 800 mm dia	metre	1170.00
1710	R.C.C. pipes NP2 class 900 mm dia	metre	1280.00

Code No.	Description	Unit	Rate ₹
1711	R.C.C. pipes NP2 class 1000 mm dia	metre	1590.00
1712	R.C.C. pipes NP2 class 1100 mm dia	metre	1875.00
1713	R.C.C. pipes NP2 class 1200 mm dia	metre	1925.00
1714	R.C.C. collars NP2 class 100 mm dia	each	30.00
1715	R.C.C. collars NP2 class 150 mm dia	each	35.00
1716	R.C.C. collars NP2 class 250 mm dia	each	50.00
1717	R.C.C. collars NP2 class 300 mm dia	each	55.00
1718	R.C.C. collars NP2 class 450 mm dia	each	100.00
1719	R.C.C. collars NP2 class 500 mm dia	each	115.00
1720	R.C.C. collars NP2 class 600 mm dia	each	140.00
1721	R.C.C. collars NP2 class 700 mm dia	each	150.00
1723	R.C.C. collars NP2 class 800 mm dia	each	200.00
1724	R.C.C. collars NP2 class 900 mm dia	each	235.00
1725	R.C.C. collars NP2 class 1000 mm dia	each	280.00
1726	R.C.C. collars NP2 class 1100 mm dia	each	300.00
1727	R.C.C. collars NP2 class 1200 mm dia	each	350.00
1728	RCC pipe 450 mm dia NP-3 spigot	metre	1496.00
1729	RCC pipe 600 mm dia NP-3 spigot	metre	1995.00
1730	RCC pipe 900 mm dia NP-3 spigot	metre	3150.00
1731	RCC pipe 1000 mm dia NP-3 spigot	metre	3885.00
1732	RCC pipe 1200 mm dia NP-3 spigot	metre	5040.00
1733	RCC pipe 1800 mm dia NP-3 spigot	metre	9450.00
1734	RCC pipe 450 mm dia NP-4 spigot	metre	1733.00
1735	RCC pipe 600 mm dia NP-4 spigot	metre	2310.00
1736	RCC pipe 900 mm dia NP-4 spigot	metre	4595.00
1737	RCC pipe 1000 mm dia NP-4 spigot	metre	5565.00
1738	RCC pipe 1200 mm dia NP-4 spigot	metre	6510.00
1739	RCC pipe 1800 mm dia NP-4 spigot	metre	13650.00
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	50.00
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	80.00
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	135.00
1857	Stoneware pipes grade A (60 cm long) 230 mm dia	each	170.00
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	220.00
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	240.00
1863	Fire clay kitchen sink: 600x450x250 mm	each	1350.00
1871	White vitreous china laboratory sink 450x300x150 mm	each	820.00
1872	White vitreous china laboratory sink 600x450x200 mm	each	1525.00
1875	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	330.00
1876	Black plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	310.00
1878	Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia	each	50.00
1879	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	60.00
1881	Spun yarn	kilogram	50.00
1882	Strainer brass 40 mm dia 1.5 metre long	each	600.00

Code No.	Description	Unit	Rate ₹
1885	15 mm C.P. brass tap	each	250.00
1889	C.P. brass toilet paper holder of standard size	each	225.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 50 mm dia	each	170.00
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 80 mm dia	each	225.00
1895	C.P. brass trap 40 mm dia	each	250.00
1896	100 mm S.C.I. trap with vent heel	each	315.00
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	275.00
1898	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	218.00
1900	S.W. gully trap P type 100x100 mm	each	90.00
1902	S.W. gully trap P type 150x100 mm	each	130.00
1904	S.W. gully trap P type 180x150 mm	each	225.00
1913	Vitreous china lipped front urinal	each	460.00
1915	Vitreous china squatting plate urinal	each	1280.00
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	210.00
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	305.00
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	330.00
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	350.00
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	410.00
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	480.00
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	620.00
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	1080.00
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	1620.00
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	330.00
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	450.00
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	560.00
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	820.00
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1490.00
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	2120.00
1940	C.I. sluice valve (with caps) class I: 100 mm dia	each	2410.00
1941	C.I. sluice valve (with caps) class I : 125 mm dia	each	2600.00
1942	C.I. sluice valve (with caps) class I: 150 mm dia	each	3600.00
1943	C.I. sluice valve (with caps) class I : 200 mm dia	each	7500.00
1944	C.I. sluice valve (with caps) class I : 250 mm dia	each	10980.00
1945	C.I. sluice valve (with caps) class I: 300 mm dia	each	15500.00
1947	Vitreous china flat back wash basin 630x450 mm	each	725.00
1949	Vitreous china angle back wash basin 600x480 mm	each	725.00
1950	Vitreous china angle back wash basin 400x400 mm	each	425.00
1951	C.P. brass waste 32 mm	each	80.00
1952	C.P. brass waste 40 mm	each	95.00
1953	Vitreous china Indian type W.C. pan size 580 mm	each	450.00
1954	Vitreous china orrisa type W.C. pan size 580 mm	each	780.00

Code No.	Description	Unit	Rate ₹
1955	Vitreous china pedestal type water closet	each	700.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	12.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	12.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	15.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	15.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	16.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	18.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	28.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	32.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	38.00
1965	White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as squatting pan or European type water closet as per manufacturer's specifications	each	1300.00
1970	Vitreous china foot rests 250x125x25 mm	pair	100.00
1980	Fly ash	cum	8.00
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	5200.00
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	5500.00
2391	Strips-Aluminium fluted 3.15 mm thick and 150 mm wide	metre	228.00
2392	Strips Aluminium fluted 3.15 mm thick and 200 mm wide	metre	323.00
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	275.00
2394	Coupler 16 mm dia	each	67.00
2395	Coupler 20 mm dia	each	88.00
2396	Coupler 25 mm dia	each	130.00
2397	Coupler 28 mm dia	each	192.00
2398	Coupler 32 mm dia	each	231.00
2399	Complete Roof Joint of 100 mm	metre	4500.00
2400	Complete Roof Joint of 150 mm	metre	4800.00
2401	Complete Roof Joint of 200 mm	metre	5000.00
2402	Epoxy adhesive	kg	150.00
2403	Floor Joint of 100 mm	metre	4500.00
2404	Floor Joint of 150 mm	metre	5000.00
2405	Floor Joint of 200 mm	metre	5400.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	345.00
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	520.00
2408	Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/sqm)	sqm	740.00
2409	Wall Joint of 100 mm	metre	3400.00
2410	Wall Joint of 150 mm	metre	3700.00
2411	Wall Joint of 200 mm	metre	4000.00
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	450.00
2413	12 mm commercial ply	sqm	700.00
2414	18 mm thick block board with commercial ply veneering on both side	sqm	850.00

Code No.	Description	Unit	Rate ₹
2447	Hollock ballies 125 mm diameter	metre	35.00
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	55.00
2451	Brass cupboard lock 6 levers of approved quality, 40 mm size	each	70.00
2452	Brass cupboard lock 6 levers of approved quality, 50 mm size	each	80.00
2453	Brass cupboard lock 6 levers of approved quality, 65 mm size	each	85.00
2454	Brass cupboard lock 6 levers of approved quality, 75 mm size	each	100.00
2455	Brass hanging type door stopper 150 mm	each	70.00
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete		600.00
2459	Anodised Aluminium hanging type door stopper	each	28.00
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	55.00
2465	Anodised Aluminium Casement stay 250 mm	each	55.00
2466	Hollock wood in scantling	10 cudm	340.00
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	170.00
2468	Nickled Chromium Brass cupboard lock 40 mm size	each	70.00
2469	Nickled Chromium Brass cupboard lock 50 mm size	each	80.00
2470	Nickled Chromium Brass cupboard lock 65 mm size	each	90.00
2471	Nickled Chromium Brass cupboard lock 75 mm size	each	115.00
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	1050.00
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	850.00
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	950.00
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	700.00
2485	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	750.00
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	1220.00
2487	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	650.00
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	875.00
2489	PVC edge bending tape 2.00 mm thick	metre	30.00
2500	Extra for selected planks of second class deodar wood	10 cudm	110.00
2504	Kiln seasoning of timber	cum	750.00
2505	Hollock wood in planks	10 cudm	390.00
2506	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 60 mm	10 nos	260.00

Code No.	Description	Unit	Rate ₹
2507	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 80 mm	10nos	300.00
2508	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 120 mm	10 nos	365.00
2509	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 140 mm	10 Nos	460.00
2510	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 160 mm	10 Nos	575.00
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	4500.00
2603	Common burnt clay F.P.S. (non modular) bricks class designation 5.0	1000 Nos	4200.00
2605	Structural sealant - 6 mm x 12 mm	metre	35.00
2606	Spacer tape 6.4 mm thick x 6 mm	metre	20.00
2607	Weather Sealant - Non Staining (600 ml)	each	460.00
2608	Weather Sealant - Normal (300 ml)	each	145.00
2609	MS Brackets/Aluminium Alloy Brackets	kg	100.00
2610	Silicon Gasket in Kg (Above 50 g / m)	kg	605.00
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	160.00
2612	Anchor Fastner - M10	each	110.00
2613	SS Bolt with washer of sizes for structural glazing / ACP Cladding	each	35.00
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	5.00
2615	Protective Tape	each	25.00
2616	GI flashing - 1.2 mm Thick	kg	66.00
2617	6 mm thick High performance glass	sqm	2000.00
2618	6 mm thick clear heat strengthened glass	sqm	770.00
2619	6 mm thick clear heat strengthened glass	each	145.00
2620	ARMS GS HD -TOP HUNG -20"-TYPE P-COUPLE	pair	1570.80
2621	Connection Block	each	39.35
2622	Curtain wall striker	each	105.00
2623	Adjustable Fastening Pawl	each	38.25
2624	Corner drive	each	294.95
2625	Top wedge Block	each	135.00
2626	Glass wool Denisity 48 Kg / m3 with Black Glass Tissue (BGT)	sqm	230.00
2627	SS Screws - # 8 x 19	each	10.00
2628	Weather Sealant - DC 789	cartridge	135.00
2629	Cement Board	sqm	250.00
2630	Baker rod	metre	5.00
2631	4 mm thick ACP	sqm	1200.00
2632	Fire Stop	metre	565.00
2634	GI/Aluminium Sheet (0.8 mm thick)	kg	55.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	225.00

Code No.	Description	Unit	Rate ₹
2708	Truf Paver (500 x 500 x 40 mm)	sqm	1050.00
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	250.00
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	172.00
2711	FS800H Grade Flooring Panel (Size 600 mm x600 mm x32 mm)	each	750.00
2712	Zinc Electroplated Pedestals - 300 mm	each	140.00
2713	Zinc Electroplated Pedestals - 450 mm	each	136.25
2714	Zinc Electroplated Tube Stinger	each	66.15
2715	Machine Screw for Fixing	each	2.00
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	700.00
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	400.00
2901	Stone Aggregate (Single size) : 100 mm nominal size	cum	1000.00
2902	Stone Aggregate (Single size) : 80 mm nominal size	cum	1000.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	1150.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	1150.00
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	450.00
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	470.00
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1250.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1250.00
2914	Solvent	kilogram	25.00
2916	Paving Asphalt VG 10 of approved quality	tonne	50600.00
3002	Polyvinyle chloride sheet 400 micron thick	sqm	40.00
3004	Stone ware spouts 100 mm dia 60 cm long	each	40.00
3050	Galvanised steel corrugated sheets	quintal	5800.00
3080	Gunmetal non-return valve - vertical (screwed end) 25 mm dia	each	360.00
3084	Gunmetal non-return valve - vertical (screwed end) 32 mm dia	each	520.00
3088	Gunmetal non-return valve - vertical (screwed end) 40 mm dia	each	750.00
3092	Gunmetal non-return valve - vertical (screwed end) 50 mm dia	each	1010.00
3096	Gunmetal non-return valve - vertical (screwed end) 65 mm dia	each	1710.00
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1100.00
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	each	250.00
3229	Vitreous china flat back wash basin 550x400 mm	each	550.00
3300	Gunmetal non-return valve - vertical (screwed end) 80 mm dia	each	2890.00
3311	C.I.sluiice valve (with caps) class II : 100 mm dia	each	2910.00
3314	C.I.sluiice valve (with caps) class II : 125 mm dia	each	3500.00
3317	C.I.sluiice valve (with caps) class II : 150 mm dia	each	4300.00
3320	C.I.sluiice valve (with caps) class II : 200 mm dia	each	9210.00
3321	C.I.sluiice valve (with caps) class II : 250 mm dia	each	14800.00
3326	C.I.sluiice valve (with caps) class II : 300 mm dia	each	18500.00
3327	15 mm Battery Based Sensor Pillar Cock	each	5822.00
3617	C.P. Brass union 40mm dia	each	195.00
3620	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long: 100 mm dia	each	1196.00

Code No.	Description	Unit	Rate ₹
3621	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long: 75 mm dia	each	1035.00
3624	S.C.I. S&S bends with access door 100 mm dia	each	290.00
3625	S.C.I. S&S bends with access door 75 mm dia	each	240.00
3628	S.C.I. S&S bend 100 mm dia	each	265.00
3629	S.C.I. S&S bend 75 mm dia	each	195.00
3634	S.C.I. S&S heel rest sanitary bend 100 mm dia	each	296.00
3635	S.C.I. S&S heel rest sanitary bend 75 mm dia	each	250.00
3640	S.C.I. S&S single equal junctions 100x100x100 mm	each	472.00
3641	S.C.I. S&S single equal junctions 75x75x75 mm	each	330.00
3644	S.C.I. S&S single equal junctions with access door 100x100x 100 mm	each	495.00
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	373.00
3650	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	620.00
3651	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	462.00
3654	S.C.I. S&S double equal junctions with access door 100x100x 100x100 mm	each	615.00
3655	S.C.I. S&S double equal junctions with access door 75x75x75x 75 mm	each	480.00
3660	S.C.I. S&S single unequal junctions 100x100x75 mm	each	570.00
3664	S.C.I. S&S single unequal junctions with access door 100x100x 75 mm	each	640.00
3670	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	800.00
3674	S.C.I. S&S double unequal junctions with access door 100x100x 75x75 mm	each	850.00
3681	S.C.I. S&S single equal invert branch of required degree 100x100x 100 mm dia	each	425.00
3682	S.C.I. S&S single equal invert branch of required degree 75x75x 75 mm dia	each	323.00
3685	S.C.I. S&S double equal invert branch of required degree 100x100x 100x100 mm dia	each	530.00
3686	S.C.I. S&S double equal invert branch of required degree 75x75x 75x75 mm dia	each	425.00
3690	S.C.I. S&S single unequal invert branch of required degree 100x 100x75 mm dia	each	545.00
3695	S.C.I. S&S double unequal invert branch of required degree 100x 100x75x75 mm dia	each	725.00
3699	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	225.00
3707	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	285.00
3708	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	390.00
3712	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	300.00
3713	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	383.00
3716	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	358.00
3717	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	465.00
3728	S.C.I. S&S door pieces 100 mm dia	each	400.00

Code No.	Description	Unit	Rate ₹
3729	S.C.I. S&S door pieces 75 mm dia	each	295.00
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	350.00
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	300.00
3738	S.C.I. S&S, collars 100 mm	each	250.00
3739	S.C.I. S&S, collars 75 mm	each	170.00
3746	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	218.00
3747	S.C.I. S&S, 75 mm offset for 100 mm dia pipe	each	363.00
3749	Vitreous china toilet paper holder of standard size	each	150.00
3860	560 mm dia cover with frame (Heavy duty)	each	9000.00
3861	560 mm dia cover without frame (Heavy duty)	each	5000.00
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	350.00
4002	Stainless steel bolts/square bar and plates	kg	130.00
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B"	metre	230.00
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C"	metre	250.00
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	270.00
4009	Mild steel tubes hot finished welded type	kilogram	55.00
4010	Mild steel tubes hot finished seamless type	kilogram	65.00
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	72.00
4012	Circular C.I. Box for ceiling fan	each	62.00
4013	Pulley 40 mm dia	each	32.00
4201	Aluminium primer	litre	130.00
4202	Red oxide Zinc chromate primer	litre	70.00
4203	Copper acetate	kilogram	300.00
4204	Hydrochloric acid	kilogram	35.00
4205	Copper chloride	kilogram	300.00
4206	Copper nitrate	kilogram	220.00
4207	Ammonium chloride	kilogram	20.00
5001	Mobil oil	litre	253.00
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	2000.00
6007	Pink marble slab plain 18 mm thick	sqm	800.00
6010	Udaypur green marble slab plain 18 mm thick	sqm	800.00
6019	Black Zebra marble slab plain 18 mm thick	sqm	500.00
6501	Sand zone V (Jamuna)	cum	600.00
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	280.00
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	340.00
7004	Vitreous china flat back wash basin 450x300 mm	each	425.00
7005	Vitreous china 10 litres low level cistern without fittings	each	925.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1600.00
7008	F.P.S. (non modular) clay fly ash bricks class designation 7.5	1000 Nos	4600.00
7009	12.5 mm thick tapered edge gypsum plain borad	sqm	160.00
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	72.00

Code No.	Description	Unit	Rate ₹
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	43.00
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	72.00
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	23.00
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	4.50
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	3.50
7016	Joint filler	kilogram	27.00
7017	Joint finisher	kilogram	24.00
7018	Joint tape roll	roll	135.00
7019	Dash fastener / Chemical fastner	each	15.00
7020	All drive screws (for gypsum board)	100 Nos	60.00
7021	Primer (for gypsum board)	litre	73.00
7022	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	160.00
7023	Chromium plated brackets (curtain rods)	each	7.00
7024	Acid Proof cement	tonne	8150.00
7027	M.S. Butt hinges 125x90x4 mm	10 Nos	110.00
7028	12.5 mm thick Fully Perforated gypsum board	sqm	430.00
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	260.00
7030	12.5 mm thick tapered edge gypsum fire resistant board	sqm	255.00
7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	285.00
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	350.00
7033	Nickel plated M.S. pipe 25 mm dia	metre	90.00
7034	Nickel plated M.S. pipe 20 mm dia	metre	80.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	8.00
7036	Nickel plated M.S - Brackets for curtain rod 25 mm	each	8.00
7040	Oxidised mild steel screws 35 mm 100	Nos	50.00
7042	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia	metre	60.00
7043	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia	metre	70.00
7044	Rolling shutters of 80x0.90 mm laths	sqm	1100.00
7045	Rolling shutters of 80x1.2 mm laths	sqm	1200.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	330.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	350.00
7048	Rawl plug 50 mm (designation 10 nos)	each	10.00
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	24.00
7050	PU Primer	sqm	41.00
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	421.00
7052	GI wire netting 3/4" x 24 G	sqm	27.00
7053	400 G polythene sheet	sqm	15.00
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	440.00
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	52.00
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	68.00

Code No.	Description	Unit	Rate ₹
7060	Hydraulic door closer tubular type Aluminium section body	each	850.00
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	25.00
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	22.00
7065	Oxidised M.S. casement stay (straight peg type) 200 mm not less than 0.24 kg	each	20.00
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod	sqm	270.00
7070	Chequered precast cement concrete tiles 22 mm thick using marble chips of size 6mm - Light shade using white cement	sqm	360.00
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	800.00
7072	Wall mounted water closet	each	4650.00
7073	Adjustable Vitreous China Cistern with fittings	each	2500.00
7074	White Vitreous China Waterless Urinal	each	15000.00
7075	Cistern with fittings for Waterless Urinal	each	3400.00
7076	White Vitreous Urinal	each	14000.00
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	575.00
7087	S.C.I. Tee 150 mm	each	600.00
7090	Expanded polystyrene type N- Normal	sqm	140.00
7091	Expanded polystyrene type - SE	sqm	170.00
7095	Stainless steel kitchen sink - with drain board bowl depth 250 mm	each	5185.00
7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm	each	4950.00
7097	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 200 mm	each	4250.00
7098	Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 178 mm	each	3000.00
7101	Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 mm	each	3150.00
7102	Stainless steel kitchen sink - without drain board 610x460 mm bowl depth 200 mm	each	2845.00
7103	Stainless steel kitchen sink - without drain board 470x420 mm bowl depth 178 mm	each	2120.00
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	1320.00
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	1150.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	1720.00
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	550.00
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	450.00
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	300.00
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	350.00
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	700.00
7116	Hard board 6 mm thick	sqm	175.00
7117	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	30.00

Code No.	Description	Unit	Rate ₹
7118	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	35.00
7119	Flexible (coil shaped) PVC waste pipe for sink and washbasin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	28.00
7120	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	30.00
7123	Coloured High density polyethylene / poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	685.00
7126	White Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	975.00
7127	Coloured Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	1500.00
7128	S.W. intercepting trap 100 mm dia	each	190.00
7129	S.W. intercepting trap 150 mm dia	each	250.00
7130	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	750.00
7131	Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	650.00
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D. - 25	each	600.00
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. - 10	each	700.00
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame -M.D.-10	each	600.00
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	1100.00
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D. - 35	each	1225.00
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1850.00
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick both sides prelaminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	qm	2050.00
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2000.00
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	1700.00

Code No.	Description	Unit	Rate ₹
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1700.00
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1500.00
7157	Laminated veneer lumber confirming to TADS 15:1995 manufactured in factory in frames of doors, windows	10 cudm	730.00
7178	Chemical ASTM C-type I	kg	110.00
7181	C.I. pile shoe	kilogram	50.00
7182	M.S. clamps for pile shoe	kilogram	45.00
7183	Bentonite	tonne	3100.00
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	60.00
7187	C.I. grating 150 mm dia, weighing not less than 440 gm	each	28.00
7188	uPVC pipes (working pressure 4 kg / cm ²) Single socketed pipe mm dia	metre	72.00
7189	uPVC pipes (working pressure 4 kg / cm ²) Single socketed pipe mm dia	metre	135.00
7190	uPVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 75 mm dia	each	18.00
7191	uPVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 110 mm dia	each	20.00
7192	uPVC coupler for UPVC drainage pipes 75 mm	each	36.00
7193	uPVC coupler for UPVC drainage pipes 110 mm	each	55.00
7194	uPVC pushfit coupler (single) 75 mm thick	each	52.00
7195	uPVC pushfit coupler (single) 110 mm thick	each	85.00
7196	uPVC single equal Tee (without door) 75x75x75 mm	each	95.00
7197	uPVC single equal Tee (without door) 110x110x110 mm	each	130.00
7198	uPVC single equal Tee (with door) 75x75x75 mm	each	118.00
7199	uPVC single equal Tee (with door) 110x110x110 mm	each	180.00
7208	UPVC bend 87.5° 75 mm bend	each	58.00
7209	UPVC bend 87.5° 110 mm bend	each	95.00
7212	UPVC plain shoe 75 mm bend	each	105.00
7213	UPVC plain shoe 110 mm bend	each	210.00
7214	UPVC pipe clip 75 mm bend	each	16.00
7215	UPVC pipe clip 110 mm bend	each	30.00
7231	Resin Bonded Glass wool 16 kg/ m ³ : 50 mm thick	sqm	145.00
7232	Resin Bonded Glass wool 24 kg/ m ³ : 50 mm thick	sqm	204.00
7233	Fibre glass tissue reinforcement Type II Grade I	sqm	100.00
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement	sqm	235.00
7237	Precast chequered cement tiles 22 mm thick medium shade using 50% white cement 50% ordinary cement	sqm	540.00
7238	High Albedo paint	kg	250.00
7239	Epoxy paint	litre	250.00
7240	Fire retardant paint	litre	300.00
7241	Melamine polish	litre	300.00

Code No.	Description	Unit	Rate ₹
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	2000.00
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone- 18 mm thick	sqm	2000.00
7246	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and up to 50 tonne capacity pile	per test	33200.00
7247	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne	per test	40300.00
7248	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & group of two or more up to 50 tonne	per test	48500.00
7249	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity	per test	15000.00
7250	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part-IV) including preparation of pile head etc. for Single pile above 50 tonne capacity pile and up to 100 tonne capacity pile	per test	23000.00
7251	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part-IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each	per test	29500.00
7252	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity	per test	15000.00
7253	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile above 50 tonne capacity	per test	23600.00
7254	Hardening compound	litre	40.00
7255	Road marking paint (spirit based)	litre	120.00
7256	Superior quality road marking paint (water based)	litre	170.00
7257	C.P. Brass bibcock 15 mm	each	375.00
7258	C.P. Brass long nose bibcock 15 mm	each	657.00
7259	C.P. Brass long body bibcock 15 mm	each	501.00
7260	C.P. Brass stop cock (concealed) 15 mm	each	513.00
7261	C.P. Brass angle valve 15 mm	each	417.00
7266	Pressed clay tiles 20mm thick 250x250 mm size	1000 Nos	12150.00
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	120.00
7268	Semi perforated ceiling tiles (600x600x12 mm)	each	120.00
7269	25 mm thick particle board	sqm	480.00

Code No.	Description	Unit	Rate ₹
7270	30 mm thick prelaminated flush door shutter	sqm	850.00
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	40.00
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	940.00
7273	Resin Bonded Rockwool 48 kg/m3	sqm	211.00
7280	Waste plastic additive	tonne	40000.00
7281	Chemical ASTM C-type II	kg	170.00
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	1900.00
7296	Granite of any colour, 30 mm thick (slab area upto 0.50 sqm)	sqm	2300.00
7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	2000.00
7306	Aluminium T or L sections	kilogram	200.00
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	340.00
7309	Paving Asphalt of grade VG-30 of approved quality	tonne	41000.00
7312	Expandable fastener with plastic sleeve and M.S. screws : 25 mm long	each	10.00
7313	Expandable fastener with plastic sleeve and M.S. screws : 32 mm long	each	11.00
7314	Expandable fastener with plastic sleeve and M.S. screws : 40 mm long	each	14.00
7315	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	15.00
7318	Plasticizer / super plasticizer	kilogram	38.00
7319	Wall form panel 1250x500 mm	each	1050.00
7320	Tie bolt 12 mm dia 100 mm length	each	50.00
7321	Tie bolt 12 mm dia 150 mm length	each	60.00
7322	Tie bolt 20 mm dia 150 mm length	each	75.00
7323	Tie bolt 20 mm dia 225 mm length	each	90.00
7324	Spring coil 12 mm	each	16.00
7325	Plastic cone 12 mm dia	each	18.00
7326	Corner angle 45x45x5 mm 1.50 m long	each	300.00
7327	100 mm channel shoulder 2.5 m long	each	1160.00
7328	Double clip (bridge clip)	each	97.00
7329	Single clip	each	77.00
7330	M.S. tube 40 mm dia	metre	280.00
7331	Wall form panel 1250x450 mm	each	1040.00
7332	Corner angle 45x45x5 mm 2.50 m long	each	340.00
7333	Column clamp 450x1070 mm	each	1220.00
7334	Prop 2 m (2-3.5 m)	each	830.00
7335	Binding wire	kilogram	53.00
7338	Gun metal cramp	kilogram	330.00
7339	Stainless steel cramp	kilogram	340.00
7340	Stainless steel pin.	kg	190.00
7342	Adjustable span ESO+SI (2.35-3.40)	each	1900.00
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	1200.00
7344	Beam clamp 300-380 mm (450-1070 mm) each	set	422.00
7345	Prop 4 m	each	1170.00
7346	Double coupler	each	55.00

Code No.	Description	Unit	Rate ₹
7347	Cadmium plated full threaded steel screws (30x4 mm dia)	100 Nos	28.00
7348	Aluminium washer 2 mm thick 15 mm dia	100 nos	10.00
7349	12 mm M.S. 'U' beading	metre	15.00
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	115.00
7358	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe)	each	640.00
7359	P.V.C. automatic flushing cistern 5 litre capacity	each	490.00
7361	P.V.C. automatic flushing cistern 10 litre capacity	each	530.00
7363	15 mm C.P. brass tap with elbow operation lever	each	700.00
7364	White glazed fire clay draining board 600x450x25 mm	each	550.00
7366	Glass reinforced Gypsum (GRG) board 12.5 mm thick	sqm	250.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm		70.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	80.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	465.00
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	1050.00
7377	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1250.00
7378	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals	each	1900.00
7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS:2556	each	1600.00
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	650.00
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	325.00
7382	Bitumen emulsion rapid setting (R.S.) conforming to IS : 8887	tonne	29800.00
7385	3 mm thick translucent white acrylic plastic sheet	sqm	570.00
7386	12 mm thick particle board ceiling tile	sqm	260.00
7387	Spigot for standard jointing	kilogram	45.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	50.00
7389	Anodising 15 microns on aluminium sections	kilogram	40.00
7390	Neoprene/EPDM rubber gasket	metre	25.00
7391	Anodising 25 microns on aluminium sections	kilogram	50.00
7392	Powder coating 50 microns on aluminium sections	kilogram	64.00
7393	Polyester powder coating 50 microns on aluminium sections	kilogram	70.00
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1550.00
7395	6 mm dia G.I. adjustable hangers including clips (up to 1.2 m length)	each	28.00
7396	Double action hydraulic floor spring with brass cover plate	each	1700.00
7397	Base Jack	each	180.00
7398	Challies	each	800.00
7399	Cup locks	each	80.00
7400	15 mm PTMT bib cock	each	120.00

Code No.	Description	Unit	Rate ₹
7401	15 mm PTMT bib cock with flange (fancy)	each	133.00
7402	15 mm PTMT bib-cock long body with flange	each	160.00
7403	15 mm dia PTMT stop cock(male thread)	each	120.00
7405	20 mm dia PTMT stop cock	each	150.00
7406	PTMT pillar cock	each	180.00
7407	PTMT push cock 15 mm dia	each	117.00
7408	PTMT push cock 12 mm dia 20 mm BSP	each	90.00
7409	PTMT grating 100 mm dia	each	35.00
7410	PTMT Pillar cock (fancy) 15 mm foam flow	each	240.00
7411	125 mm grating with waste hole	each	42.00
7412	Rectangular type with openable circular lid 150 mmsize18 mm high with 100 mm dia (110 gm)	each	122.00
7415	Double acting air valve 50 mm	each	4000.00
7416	Double acting air valve 80 mm	each	5200.00
7417	Double acting air valve 100 mm	each	6800.00
7418	Water meter (including testing charges) 80 mm	each	2130.00
7419	Water meter (including testing charges) 100 mm	each	3300.00
7420	Water meter (including testing charges) 150 mm	each	5000.00
7421	Water meter (including testing charges) 200 mm	each	5400.00
7422	Dirt box strainer 80 mm	each	2810.00
7423	Dirt box strainer 100 mm	each	4580.00
7424	Dirt box strainer 150 mm	each	5810.00
7425	Dirt box strainer 200 mm	each	8250.00
7426	Cat's eye	each	180.00
7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	415.00
7428	Water stops Dumb bell with central bulb	metre	390.00
7429	Kickers	metre	375.00
7430	Wedge expansion hold fastener 1/4" or 6 mm	each	14.00
7431	Wedge expansion hold fastener 3/8" or 10	each	15.00
7432	Wedge expansion hold fastener 1/2" or 12 mm	each	28.00
7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	500.00
7442	Wheel 75 mm dia. 40 mm wide	each	65.00
7443	Aluminium single cleat of size 30x32x3 mm	each	15.00
7444	Aluminium grip strip of size 50x12x2 mm	each	12.00
7445	25 mm thick prelaminated flush door shutter both side decorative	sqm	850.00
7449	Aluminium U beading	kilogram	220.00
7451	Glass sheet (Pin headed) 4 mm thick	sqm	320.00
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	650.00
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	750.00
7466	Second class deodar teak wood lipping 30 mm wide x 12 mm thick	metre	30.00
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	520.00

Code No.	Description	Unit	Rate ₹
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	750.00
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	860.00
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	930.00
7480	Pre/aminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	790.00
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	42.00
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	55.00
7491	PTMT - Waste Coupling 31/32 mm	each	62.00
7492	PTMT - Waste Coupling 38/40 mm	each	88.00
7493	PTMT - Bottle Trap 31/32 mm	each	390.00
7494	PTMT - Bottle Trap 38/40 mm	each	410.00
7495	PTMT Ball Cock 15mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	162.00
7496	PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	198.00
7497	PTMT Ball Cock 25mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	420.00
7498	PTMT Ball Cock 40mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	810.00
7499	PTMT Ball Cock 50mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	1150.00
7500	PTMT Angle Stop cock with Flange 15 mm	each	150.00
7501	PTMT Swiveling shower 15 mm	each	110.00
7503	PTMT Liquid Soap Container of 400 ml capacity	each	185.00
7504	PTMT Towel Ring 215x200x37 mm	each	152.00
7505	PTMT- Towel Rail (450 mm)	each	242.00
7506	PTMT - Towel Rail (600 mm)	each	292.00
7507	PTMT Shelf 450x124x36 mm	each	314.00
7508	PTMT - Urinal Spreader 15 mm	each	150.00
7509	PTMT Soap Dish/Holder 138x102x75 mm	each	130.00
7512	PTMT handle 125x34x24 mm	each	35.00
7513	PTMT handle 150x34x24 mm	each	40.00
7514	PTMT butt hinges 75x60x10 mm	each	50.00
7515	PTMT butt hinges 100x75x10 mm	each	65.00

Code No.	Description	Unit	Rate ₹
7516	PTMT Tower bolt 152x42x18 mm	each	70.00
7517	PTMT Tower bolt 202x42x18 mm	each	90.00
7518	PTMT door catcher 72x42	each	35.00
7552	Coir veneered board 4 mm thick	sqm	300.00
7553	Coir veneered board 6 mm thick	sqm	400.00
7555	Coir veneered board 12 mm thick	sqm	700.00
7556	Coir veneered board 18 mm thick	sqm	1050.00
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100 mm dia	metre	950.00
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150 mm dia	metre	1200.00
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200 mm dia	metre	1650.00
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia	metre	3250.00
7655	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 300 mm dia	metre	2920.00
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350 mm dia	metre	3550.00
7657	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 400 mm dia	metre	4500.00
7658	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450 mm dia	metre	5200.00
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500 mm dia	metre	6580.00
7660	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 600 mm dia	metre	7930.00
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700 mm dia	metre	11000.00
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750 mm dia	metre	11900.00
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800 mm dia	metre	12000.00
7664	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900 mm dia	metre	14500.00
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000 mm dia	metre	16300.00
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	each	30.00
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia	each	38.00
7669	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200 mm dia	each	66.00
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia	each	78.00
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	each	115.00
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	each	132.00
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	each	240.00
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	each	280.00
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	each	305.00
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	each	380.00
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	each	575.00
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia	each	690.00
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	each	760.00
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	each	1000.00
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	each	1200.00
7682	Ductile Iron K - 12 specials suitable for push on jointing up to 600 mm dia	quintal	13000.00
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600 mm dia	quintal	18000.00
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600 mm dia	quintal	13700.00

Code No.	Description	Unit	Rate ₹
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm dia	quintal	19650.00
7686	Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia	metre	2180.00
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 mm dia	metre	3500.00
7688	Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia	metre	4110.00
7689	Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia	metre	3425.00
7690	Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia	metre	6960.00
7691	Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia	metre	8800.00
7692	Ductile Iron Pipe Class K-9 flanges and welding 400 mm dia	metre	10610.00
7693	Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia	metre	12900.00
7694	Ductile Iron Pipe Class K-9 flanges and welding 500 mm dia	metre	15100.00
7695	Ductile Iron Pipe Class K-9 flanges and welding 600 mm dia	metre	20630.00
7696	Ductile Iron Pipe Class K-9 flanges and welding 700 mm dia	metre	25600.00
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia	metre	900.00
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125 mm dia	metre	1120.00
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia	metre	1350.00
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia	metre	2300.00
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia	metre	3000.00
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia	metre	4050.00
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350 mm dia	metre	4850.00
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400 mm dia	metre	6400.00
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450 mm dia	metre	7750.00
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500 mm dia	metre	9000.00
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia	metre	12595.00
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	quintal	5450.00
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	quintal	8200.00
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	quintal	9000.00
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per I.S. 13382 over 300 mm dia	quintal	9500.00
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	metre	1375.00
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	metre	2150.00
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	metre	3400.00
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	metre	4100.00
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	metre	5240.00
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	metre	6600.00

Code No.	Description	Unit	Rate ₹
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	metre	8550.00
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	metre	10900.00
7720	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500 mm dia	metre	13560.00
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	metre	18800.00
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia	metre	775.00
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia	metre	1120.00
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200 mm dia	metre	1550.00
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia	metre	2100.00
7726	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300 mm dia	metre	2900.00
7727	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350 mm dia	metre	3445.00
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia	metre	4015.00
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia	metre	4852.00
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia	metre	5735.00
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia	metre	7480.00
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia	metre	9613.00
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia	metre	12100.00
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia	metre	16070.00
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000 mm dia	metre	17032.00
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	6100.00
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	5800.00
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	5700.00
7739	Modified Bitumen Refinery produced CRMB - 55	tonne	52674.00
7741	Modified Bitumen Refinery produced CRMB - 60	tonne	52747.00
7742	Bitumen emulsion medium setting (M.S.) conforming to IS :	tonne	39283.00
7743	M.S. pipe 150 mm dia casing pipe	metre	1060.00
7744	M.S. pipe 200 mm dia casing pipe	metre	1300.00
7745	PVC blind pipe 150 mm dia as per IS: 12818	metre	500.00
7746	PVC blind pipe 200 mm dia as per IS: 12818	metre	750.00
7747	M.S. cap 150 mm dia	each	160.00
7748	M.S. cap 200 mm dia	each	200.00
7749	M.S bail plug 150 mm dia	each	200.00
7750	M.S bail plug 200 mm dia	each	220.00
7751	PVC slotted pipe 150 mm dia as per IS: 12818	metre	450.00
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	700.00
7753	Boulder 50 mm to 200 mm	cum	350.00
7754	Gravel 5 mm to 10 mm	cum	700.00
7755	Gravel 1.5 mm to 2 mm	cum	650.00
7756	Gravel 3 mm to 6 mm	cum	680.00
7757	M.S. pipe 100 mm dia casing pipe	metre	770.00
7758	uPVC blind pipe 100 mm dia as per IS: 12818	metre	360.00

Code No.	Description	Unit	Rate ₹
7759	uPVC slotted pipe 100 mm dia as per IS: 12818	metre	380.00
7760	M.S. cap 100 mm dia	each	130.00
7761	M.S. bail plug 100 mm dia	each	160.00
7762	Precast R.C.C. perforated slab	each	800.00
7763	Water supply tanker of 5000 litre capacity	each	800.00
7764	M.S. socket 100 mm dia	each	180.00
7765	M.S. socket 150 mm dia	each	220.00
7766	M.S. socket 200 mm dia	each	280.00
7767	Stone cleaning chemical approved by ASI	litre	165.00
7768	Water repellent chemical approved by ASI	litre	1587.00
7769	Stone surface strengthening chemical approved by ASI	litre	1020.00
7770	Turpentine oil	litre	68.00
7771	Liquid Amonia 5%	litre	161.00
7772	Pea Gravel	cum	750.00
7773	Coloured inter locking C.C. paver Block	sqm	500.00
7774	Stone size 10x10x7.50cm	each	9.00
7775	Sodium pentachlorophenate	kilogram	630.00
7800	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	sqm	300.00
7801	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	300.00
7802	Ceramic Glazed Tiles 1st quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	400.00
7803	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	sqm	450.00
7804	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	500.00
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724 mm X 578 mm	each	3800.00
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355 mm	each	1850.00
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345 mm	each	1850.00
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	435.00
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	468.00
7850	Agaria White marble slab plain 18 mm thick	sqm	1100.00
7857	P.T.M.T. Grating square slit 150 mm	each	77.00
7858	P.T.M.T. Urinal cock 15 mm dia	each	120.00
7859	P.T.M.T. Bib cock with nozzle 15 mm	each	145.00
7861	P.T.M.T. Stop cock (concealed) 15 mm	each	158.00
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	32.00
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	40.00
7864	P.T.M.T. extension nipple 15 mm	each	32.00
7865	P.T.M.T. extension nipple 20 mm	each	38.00

Code No.	Description	Unit	Rate ₹
7866	P.T.M.T. extension nipple 25 mm	each	57.00
7893	Tactile tile	sqm	900.00
7895	Matt finished vitrified tile 100x100 x16 mm	sqm	930.00
7896	Vitrified tile	sqm	510.00
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	4850.00
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	4600.00
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	5350.00
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	5000.00
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	5250.00
8001	24 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2200.00
8002	30 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2300.00
8003	Factory made PVC rigid foam panelled shutter i/c carriage	sqm	2200.00
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	2600.00
8006	Factory made PVC rigid foam sheet 1 mm thick	sqm	200.00
8007	Factory made PVC rigid foam sheet 5 mm thick	sqm	632.00
8008	Factory made prelaminated PVC rigid foam sheet 5 mm thick	sqm	752.00
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	160.00
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	370.00
8012	Adhesive solvent cement	kg	165.00
8014	Factory made door frame of size 50x47 mm with wall thickness 5 mm made of single piece extruded profile	metre	500.00
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	90.00
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	80.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	98.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	100.00
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	200.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	214.00
8206	Bitumen primer for bitumen membrane	litre	90.00
8207	Geotextile 120 grams per sqm membrane	sqm	45.00
8210	Stainless steel screws 50 mm	100 Nos	260.00
8211	Stainless steel screws 40 mm	100 Nos	208.00
8212	Stainless steel screws 30 mm	100 Nos	192.00
8214	Stainless steel screws 20 mm	100 Nos	151.00
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	670.00
8216	Stainless steel butt hinges 100x58x1.9 mm IS: 12817 marked	10 Nos	510.00
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	275.00

Code No.	Description	Unit	Rate ₹
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	190.00
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	910.00
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	690.00
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	460.00
8222	M.S. heavy weight butt hinges 125x90x4.0 mm IS: 1341 marked.	10 Nos	350.00
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos	200.00
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 nos	100.00
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	90.00
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	95.00
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	125.00
8302	2025 mm PE-AL-PE Composite pressure pipe	metre	160.00
8303	2532 mm PE-AL-PE Composite pressure pipe	metre	205.00
8304	3240 mm PE-AL-PE Composite pressure pipe	metre	340.00
8305	4050 mm PE-AL-PE Composite pressure pipe	metre	375.00
8501	Polymer modified cementation coating	kilogram	150.00
8502	Fibre glass cloth	sqm	44.00
8504	Multi surface paint	litre	290.00
8505	Acrylic exterior paint	litre	180.00
8506	Premium Acrylic exterior paint	litre	240.00
8507	Textured exterior paint	litre	240.00
8508	Primer for cement paint	litre	78.00
8509	Special Primer (C.W.)	litre	150.00
8510	Metal Primer (U.G.)	litre	170.00
8589	Calcium Silicate tegular edged ceiling tiles 595x595 mm and 15 mm thick	sqm	860.00
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long)	each	195.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	125.00
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	80.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (0.6 metre long)	each	40.00
8594	Galvanised Steel soffit cleat size 25x35x1.60 mm	each	4.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	1.00
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	895.00
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	1000.00
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	810.00

Code No.	Description	Unit	Rate ₹
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	910.00
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	470.00
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	485.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	180.00
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	155.00
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	165.00
8607	Spring T-connector	each	5.00
8608	C Carrier Connector	each	11.00
8609	C Suspension Clip	each	11.00
8610	Wire Coupling Clip	each	9.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	190.00
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	120.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long)	each	75.00
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long)	each	35.00
8615	Hanger rod 4 mm thick	each	8.00
8616	Adjustment clip 85x30x0.8 mm	each	6.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	4.00
8618	Dash fastener 6 mm dia 50 mm long	each	11.00
8620	Vitrified floor tile 50x50 cm	sqm	770.00
8621	Vitrified floor tile 60x60 cm	sqm	850.00
8622	Vitrified floor tile 80x80 cm	sqm	950.00
8623	Vitrified floor tile 100x100 cm	sqm	1600.00
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 mm Outer dia	metre	37.00
8626	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 - 20 mm Outer dia	metre	57.00
8627	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia	metre	88.00
8628	Poly propylene - Random - Co - poymer (PPR) pipes SDR 7.4 - 32 mm Outer dia	metre	142.00
8629	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 40 mm Outer dia	metre	213.00
8630	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 50 mm Outer dia	metre	333.00
8631	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 63 mm Outer dia	metre	513.00
8632	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 75 mm Outer dia	metre	700.00
8633	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 90 mm Outer dia	metre	1066.00
8634	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 - 110 mm Outer dia	metre	1200.00

Code No.	Description	Unit	Rate ₹
8635	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11-160 mm Outer dia	metre	2500.00
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia	metre	55.00
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia	metre	68.00
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia	metre	95.00
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia	metre	130.00
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia	metre	185.00
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia	metre	300.00
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner dia	metre	910.00
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia	metre	1300.00
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia	metre	1800.00
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia	metre	2150.00
8646	Silicon sealant	cartridge	340.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	32.00
8648	Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap	sqm	2350.00
8649	Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm	each	185.00
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mm	each	225.00
8651	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	each	290.00
8652	Stainless steel (SS 304 grade) adjustable friction window stay 510 x 19 mm	each	515.00
8653	Stainless steel (SS 304 grade) adjustable friction window stay 710 x 19 mm	each	925.00
8654	Masking tape	metre	2.60
8655	Autoclaved aerated cement (AAC) blocks	cum	3200.00
8656	Gypsum panel 666 X 500 X 100 mm size	sqm	480.00
8657	Bonding plaster for Gypsum panel	kg	55.00
8659	Water proof ply 12 mm thick	sqm	650.00
8660	Aluminium casement window fastener (Anodised AC 15)	each	42.00
8661	Aluminium casement window fastener (powder coated)	each	43.00
8662	Aluminium casement window fastener (polyester powder coated)	each	42.00
8663	Aluminium round shape handle (anodised AC 15)	each	52.00
8664	Aluminium round shape handle (powder coated)	each	58.00
8665	Aluminium round shape handle (polyester powder coated)	each	62.00
8666	Stainless steel screws 25 mm x4 mm	100 Nos	35.00
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	470.00
8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	540.00
8669	Mangalore ridge tiles 20 mm thick	each	30.00
8670	Mangalore tiles 20 mm thick	each	12.00
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	435.00
8672	Precoated galvanised steel plain ridges	metre	440.00

Code No.	Description	Unit	Rate ₹
8673	Precoated galvanised steel flashings/aprons	metre	440.00
8674	Precoated galvanised steel gutter	metre	455.00
8675	Precoated galvanised steel north light curves	metre	455.00
8676	Precoated galvanised steel barge board	metre	450.00
8677	Precoated galvanised steel crimp curve	sqm	475.00
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	48.00
8682	Epoxy Grout	kg	510.00
8683	Red sand stone gang saw cut 30 mm thick	sqm	460.00
8684	White sand stone gang saw cut 30 mm thick	sqm	480.00
8685	Delineator	each	275.00
8686	Precast C.C. Kerb stone M - 25	cum	4100.00
8687	Thermoplastic paint	kg	60.00
8688	Glass beads	kg	60.00
8689	Interlocking C.C. paver block (60 mm thick, M-30)	sqm	350.00
8690	High intensity retro - reflective sheet	sqm	1525.00
8691	Punched tape concertina coil 600 mm dia 10 m openable length (Total length 90 m)	bundle	750.00
8692	RBT reinforced barbed wire	metre	9.00
8693	Turn buckle and strengthening bolt each	set	40.00
8694	Precast pavement slab 450 x 450 x 50 mm (M - 30)	each	70.00
8695	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm	sqm	258.00
8696	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm, PVC coated to outer dia 5 mm	sqm	285.00
8697	Chain link fabric fencing mesh of size 25x25 mm made of G.I. wire of dia 3 mm	sqm	340.00
8698	Stainless steel cramps(weight 260 grams) with nuts, bolts and washer for dry stone cladding	each	90.00
8699	8 mm thick tapered edge calcium silicate board	sqm	250.00
8700	10 mm thick calcium silicate board	sqm	400.00
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	680.00
8702	Coupling/Socket fittings for 15.88 mm outer dia SS pipe	each	57.00
8703	Telescopic drawer channels 300 mm long	set	150.00
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/ cabinets shutter	each	9.00
8705	50 mmX42 mmX2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	150.00
8706	25 mm thick factory made PVC flush door shutter i/c carriage	sqm	2200.00
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage	metre	390.00
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage	sqm	1900.00

Code No.	Description	Unit	Rate ₹
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	sqm	2700.00
8710	Factory made solid PVC door frame 60 x 30 mm i/c carriage	metre	300.00
8711	28 mm factory made solid PVC panel door shutter i/c carriage	sqm	2300.00
8712	30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish	sqm	2150.00
8713	Fiber glass reinforced plastic chajja	sqm	3800.00
8714	Magnetic catcher triple strip vertical type	each	20.00
8715	Magnetic catcher double strip horizontal type	each	15.00
8716	100 mm mortice lock with 6 levers for aluminium door	each	340.00
8717	12.5 mm thick Glass fibre reinforced Gypsum board	sqm	195.00
8719	2nd class teak wood lipping / moulded beading or Taj beading of size 18X5 mm	metre	35.00
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	44.00
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	27.00
8722	Nylon sleeves & wooden screws (40 mm)	each	2.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	80.00
8724	12 mm thick marine plywood conforming to IS: 710	sqm	850.00
8725	12 mm thick fire retardant plywood conforming to IS: 5509	sqm	880.00
8726	1.5 mm thick decorative laminated sheet	sqm	500.00
8727	1.0 mm thick decorative laminated sheet	sqm	380.00
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	sqm	2200.00
8731	High polymer modified quickset tile adhesive per	kg	20.00
8732	Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	365.00
8733	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	400.00
8734	P.V.C. Single piece extruded door frame of profile size 50 mm x 47 mm with wall thickness of 5 mm	metre	360.00
8735	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile non decorative finished (Matt finished)	sqm	2150.00
8736	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (wood grain finished)	sqm	2600.00
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	840.00
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermiculite based concrete mix	metre	1050.00
8739	Fire rated door shutter made with 16 SWG G.I. sheet(60 minutes) without panel	sqm	5300.00
8740	Fire seal Putty	kg	750.00
8741	Clear fire resistant glass panes 6mm thick (60 minutes)	sqm	21500.00

Code No.	Description	Unit	Rate ₹
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/ m2) with ceramic tape of suitable thickness and fire resistant primer coating	metre	280.00
8743	Matrix Mineral Board	metre	65.00
8744	Panic Bar / latch (Double point)	each	5200.00
8745	65 mm x 55 mm x 2 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	340.00
8746	37 mm thick Factory made shutter with style,rails and panels of PVC extruded section in white or grey finish i/c carriage	sqm	2400.00
8747	75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	380.00
8748	37 mm thick Factory made fusion welded shutter with style,rails and panels of PVC extruded section in wooden finish	sqm	2600.00
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	180.00
8751	Zinc alloy (white powder coated) Touch Lock for uPVC windows	each	120.00
8752	Zinc alloy rollers for uPVC windows	each	55.00
8753	Zinc alloy rollers for uPVC door	each	90.00
8754	Zinc alloy (white powder coated) casement lock for uPVC windows	each	110.00
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	250.00
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	300.00
8757	Stainless steel friction hinge of size 300 mm x 19 x 1.9 mm for uPVC windows	each	380.00
8758	Stainless steel friction hinge of size 350 mm x 19 x 1.9 mm for uPVC windows	each	440.00
8759	Stainless steel friction hinge of size 400 mm x 19 x 1.9 mm for uPVC windows	each	550.00
8760	uPVC extruded profile casement window Frame (50 mm x 50 mm)	metre	175.00
8761	uPVC extruded profile casement window sash (Style and Rail) (62 mm x 34 mm)	metre	160.00
8762	uPVC extruded profile casement window mullion (intermediate section) (66 mm x 50 mm)	metre	195.00
8763	uPVC extruded profile casement window 'T' profile (one vertical length in between two shutters) (24 mm x 34.5 mm)	metre	54.00
8764	uPVC extruded profile casement window glazing bead (12 mm x 18 mm)	metre	54.00
8765	uPVC extruded profile casement window Frame (67 mm x 62 mm)	metre	245.00
8766	uPVC extruded profile casement Window Sash/Mullion (67 mm x 75 mm)(Style,rail and intermediate section)	metre	275.00
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm)	metre	90.00
8768	uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm)	metre	258.00
8769	uPVC extruded profile Sliding window Sash (60 mm x 44 mm)	metre	240.00
8770	uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm)	metre	53.00

Code No.	Description	Unit	Rate ₹
8771	uPVC extruded profile Sliding Door Sash (80 mm x 44 mm)	metre	300.00
8772	Aluminium Track on bottom rail for uPVC window	metre	28.00
8773	Wool Pine for uPVC window	metre	20.00
8774	Aluminium Grill	kg	250.00
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	60.00
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	20.00
8778	Toughened glass 12 mm thickness	sqm	1900.00
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	144.00
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	254.00
8781	SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia	metre	330.00
8782	SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia	metre	468.00
8783	SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia	metre	582.00
8784	8 mm thick Calcium silicate perforated tiles of size 595 x595 mm	sqm	690.00
8785	Interlocking C.C. paver block (80 mm thick, M-30)	sqm	466.65
8786	Coupling/Socket fittings for 22.22 mm outer dia SS pipe	each	88.00
8787	Coupling/Socket fittings for 28.58 mm outer dia SS pipe	each	108.00
8788	Coupling/Socket fittings for 34.00 mm outer dia SS pipe	each	231.00
8789	Coupling/Socket fittings for 42.70 mm outer dia SS pipe	each	330.00
8790	Coupling/Socket fittings for 48.60 mm outer dia SS pipe	each	446.00
8791	Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe	each	103.00
8792	Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe	each	141.00
8793	Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe	each	145.00
8794	Reducer for 34.00 mm X 15.88 mm outer Dia SS pipe	each	234.00
8795	Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe	each	237.00
8796	Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe	each	237.00
8797	Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe	each	359.00
8798	Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe	each	362.00
8799	Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe	each	362.00
8800	Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe	each	387.00
8801	Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe	each	468.00
8802	Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe	each	470.00
8803	Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe	each	474.00
8804	Reducer for 48.60 mm X 34.00 mm outer Dia SS pipe	each	479.00
8805	Reducer for 48.60 mm X 42.70 mm outer Dia SS pipe	each	522.00
8806	Slip Coupling / Socket 15.88 mm outer dia SS pipe	each	113.00
8807	Slip Coupling / Socket 22.22 mm outer dia SS pipe	each	184.00
8808	Slip Coupling / Socket 28.58 mm outer dia SS pipe	each	236.00
8809	Slip Coupling / Socket 34.00 mm outer dia SS pipe	each	349.00
8810	Slip Coupling / Socket 42.70 mm outer dia SS pipe	each	490.00

Code No.	Description	Unit	Rate ₹
8811	Slip Coupling / Socket 48.60 mm outer dia SS pipe	each	609.00
8812	Elbow 90o for 15.88 mm outer dia SS pipe	each	86.00
8813	Elbow 90o for 22.22 mm outer dia SS pipe	each	153.00
8814	Elbow 90o for 28.58 mm outer dia SS pipe	each	211.00
8815	Elbow 90o for 34.00 mm outer dia SS pipe	each	429.00
8816	Elbow 90o for 42.70 mm outer dia SS pipe	each	657.00
8817	Elbow 90o for 48.60 mm outer dia SS pipe	each	808.00
8818	Reducing Elbow 90o for 22.22 mm X 15.88 mm outer dia SS pipe	each	148.00
8819	Reducing Elbow 90o for 28.58 mm X 15.88 mm outer dia SS pipe	each	216.00
8820	Reducing Elbow 90o for 28.58 mm X 22.22 mm outer dia SS pipe	each	221.00
8821	Reducing Elbow 90o for 34.00 mm X 22.22 mm outer dia SS pipe	each	321.00
8822	Reducing Elbow 90o for 34.00 mm X 28.58 mm outer dia SS pipe	each	396.00
8823	Reducing Elbow 90o for 42.70 mm X 34.00 mm outer dia SS pipe	each	698.00
8824	Equal Tee for 15.88 mm outer dia SS pipe	each	159.00
8825	Equal Tee for 22.22 mm outer dia SS pipe	each	231.00
8826	Equal Tee for 28.58 mm outer dia SS pipe	each	296.00
8827	Equal Tee for 34.00 mm outer dia SS pipe	each	617.00
8828	Equal Tee for 42.70 mm outer dia SS pipe	each	864.00
8829	Equal Tee for 48.60 mm outer dia SS pipe	each	1028.00
8830	Reducing Tee for 22.22 mm X 15.88 mm outer dia SS	each	225.00
8831	Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe	each	280.00
8832	Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe	each	291.00
8833	Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe	each	548.00
8834	Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe	each	558.00
8835	Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe	each	564.00
8836	Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe	each	819.00
8837	Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe	each	821.00
8838	Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe	each	822.00
8839	Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe	each	830.00
8840	Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe	each	894.00
8841	Reducing Tee for 48.60 mm X 22.22 mm outer dia SS	each	913.00
8842	Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe	each	920.00
8843	Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe	each	958.00
8844	Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe	each	993.00
8845	Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	286.00
8846	Male thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	344.00
8847	Male thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	368.00
8848	Male thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	414.00
8849	Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	432.00
8850	Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	483.00
8851	Male thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	602.00
8852	Male thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	651.00
8853	Male thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	777.00

Code No.	Description	Unit	Rate ₹
8854	Male thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	981.00
8855	Male thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	919.00
8856	Male thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	941.00
8857	Male thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	1024.00
8858	Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1137.00
8859	Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1381.00
8860	Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	1000.00
8861	Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	1030.00
8862	Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	1074.00
8863	Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	1290.00
8864	Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1431.00
8865	Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1749.00
8866	Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	292.00
8867	Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	344.00
8868	Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	356.00
8869	Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	445.00
8870	Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	455.00
8871	Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	498.00
8872	Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	668.00
8873	Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	679.00
8874	Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	766.00
8875	Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	910.00
8876	Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	894.00
8877	Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	910.00
8878	Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	1022.00
8879	Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1067.00
8880	Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1162.00
8881	Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	1065.00
8882	Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	1076.00
8883	Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	1115.00
8884	Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	1184.00
8885	Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1233.00
8886	Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1366.00
8887	Female threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	190.00
8888	Female threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	230.00
8889	Female threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	237.00
8890	Female threaded Connector/Adapter for 28.58 mm outer dia X 15 mm nominal threaded	each	277.00
8891	Female threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	286.00

Code No.	Description	Unit	Rate ₹
8892	Female threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	337.00
8893	Female threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	409.00
8894	Female threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	538.00
8895	Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	576.00
8896	Female threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	681.00
8897	Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	838.00
8898	Female threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	965.00
8899	Male threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	193.00
8900	Male threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	227.00
8901	Male threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	248.00
8902	Male threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	313.00
8903	Male threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	320.00
8904	Male threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	461.00
8905	Male threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	565.00
8906	Male threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	649.00
8907	Male threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	726.00
8908	Male threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	840.00
8909	Male threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	1138.00
8910	Valve Connector for 15.88 mm outer dia X 15 mm nominal dia threaded	each	234.00
8911	Valve Connector for 22.22 mm outer dia X 15 mm nominal dia threaded	each	276.00
8912	Valve Connector for 22.22 mm outer dia X 20 mm nominal dia threaded	each	295.00
8913	Valve Connector for 28.58 mm outer dia X 25 mm nominal dia threaded	each	424.00
8914	Valve Connector for 34.00 mm outer dia X 32 mm nominal dia threaded	each	629.00
8915	Valve Connector for 42.70 mm outer dia X 40 mm nominal dia threaded	each	875.00
8916	Valve Connector for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1176.00
8917	Female Threaded Elbow 90° for 15.88 mm outer dia X 15 mm nominal dia threaded	each	205.00
8918	Female Threaded Elbow 90° for 22.22 mm outer dia X 15 mm nominal dia threaded	each	275.00

Code No.	Description	Unit	Rate ₹
8919	Female Threaded Elbow 90° for 22.22 mm outer dia X 20 mm nominal dia threaded	each	284.00
8920	Female Threaded Elbow 90° for 28.58 mm outer dia X 25 mm nominal dia threaded	each	421.00
8921	Female Threaded Elbow 90° for 34.00 mm outer dia X 32 mm nominal dia threaded	each	733.00
8922	Female Threaded Elbow 90° for 42.70 mm outer dia X 32 mm nominal dia threaded	each	920.00
8923	Female Threaded Elbow 90° for 42.70 mm outer dia X40 mm nominal dia threaded	each	995.00
8924	Female Threaded Elbow 90° for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1103.00
8925	Female Threaded Elbow 90° for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1286.00
8926	Male Threaded Elbow 90° for 15.88 mm outer dia X 15 mm nominal dia threaded	each	216.00
8927	Male Threaded Elbow 90° for 22.22 mm outer dia X 15 mm nominal dia threaded	each	273.00
8928	Male Threaded Elbow 90° for 22.22 mm outer dia X 20 mm nominal dia threaded	each	288.00
8929	Male Threaded Elbow 90° for 28.58 mm outer dia X 25 mm nominal dia threaded	each	377.00
8930	Male Threaded Elbow 90° for 34.00 mm outer dia X 25 mm nominal dia threaded	each	605.00
8931	Male Threaded Elbow 90° for 34.00 mm outer dia X 32 mm nominal dia threaded	each	736.00
8932	Male Threaded Elbow 90° for 42.70 mm outer dia X 32 mm nominal dia threaded	each	934.00
8933	Male Threaded Elbow 90° for 42.70 mm outer dia X40 mm nominal dia threaded	each	1060.00
8934	Male Threaded Elbow 90° for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1190.00
8935	Male Threaded Elbow 90° for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1449.00
8936	Cap for 15.88 mm outer dia pipe	each	45.00
8937	Cap for 22.22 mm outer dia pipe	each	64.00
8938	Cap for 28.58 mm outer dia pipe	each	84.00
8939	Cap for 34.00 mm outer dia pipe	each	173.00
8940	Cap for 42.70 mm outer dia pipe	each	253.00
8941	Cap for 48.60 mm outer dia pipe	each	330.00
8942	Pipe Bridge for 15.88 mm outer dia pipe	each	214.00
8943	Pipe Bridge for 15.88 mm outer dia pipe	each	271.00
8944	Pipe Bridge for 28.58 mm outer dia pipe	each	407.00
8945	4 Point facade glass bracket	Nos	3318.00
8946	2 Point facade glass bracket	Nos	1659.00
8947	1 Point facade glass bracket	Nos	1404.00

Code No.	Description	Unit	Rate ₹
8948	Flate head	Nos	651.00
8949	400 fin plate at top	pair	5931.00
8953	Micro Silica	kg	32.00
8954	Stop end tubes for diaphragm wall 600 mm dia.	sqm	4.50
8955	Driving end tubes for diaphragm wall 600 mm dia.	sqm	72.00
9999	Sundries	L.S.	1.78

BASIC RATES

0.4 CARRIAGE CODES

(Carriage by Mechanical Transport including loading, Unloading and stacking)

Note: - These rates are exclusive of contractor's profit and overhead charges.

Code No.	Description	Unit	Rate ₹
2200	Steam coal	tonne	121.70
2201	Bricks 1000	Nos	283.96
2202	Stone aggregate below 40 mm nominal size	cum	106.49
2203	Coarse sand	cum	106.49
2204	Timber	cum	121.70
2205	Steel	tonne	94.65
2206	Stone aggregate 40 mm nominal size and above	cum	115.75
2207	Brick tiles 1000	Nos	170.38
2208	Lime	cum	106.49
2209	Cement	tonne	94.65
2211	Tar / Bitumen	tonne	106.49
2215	Soling stone & masonry stone	cum	125.28
2216	Stone blocks white & red sand stone & kota stone slab	tonne	94.65
2224	S.W. pipes 100 mm dia 100	metre	141.98
2225	S.W. pipes 150 mm dia 100	metre	283.96
2226	S.W. pipes 200 mm dia 100	metre	473.27
2228	S.W. pipes 250 mm dia 100	metre	811.33
2229	S.W. pipes 300 mm dia 100	metre	1014.16
2241	Good earth	cum	133.11
2242	Dump manure	cum	115.75
2260	Brick aggregate	cum	115.75
2261	Fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	106.49
2262	Flyash	cum	106.49
2264	Rubbish	cum	106.49
2265	Moorum	cum	106.49
2266	Surkhi	cum	106.49
2267	Stone dust	cum	106.49
2268	Marble dust and/or marble chips	cum	106.49
2271	G.I. pipes below 100 mm dia	tonne	94.65
2272	Stainless Steel pipes below 100 mm dia	tonne	94.65
2273	A.C.sheet and accessories	tonne	94.65
2275	R.C.C. pipes 100 mm dia	100 metre	232.76
2281	R.C.C. pipes 150 mm dia	100 metre	387.93
2287	R.C.C. pipes 250 mm dia	100 metre	896.73
2290	R.C.C. pipes 300 mm dia	100 metre	1108.37
2299	R.C.C. pipes 450 & 500 mm dia	100metre	2586.19

Code No.	Description	Unit	Rate ₹
2302	G.I.sheet and accessories	tonne	94.65
2303	R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	3879.29
2308	Plaster of paris	tonne	94.65
2309	Cast Iron fittings	tonne	94.65
2311	Red bajri	cum	106.49
2314	Barbed wire	tonne	94.65
2317	Sludge	cum	115.75
2319	Spun iron S & S pipes 100 mm dia	100 metre	232.76
2320	Spun iron S & S pipes 125 mm dia	100 metre	310.91
2321	Spun iron S & S pipes 150 mm dia	100 metre	387.93
2322	Spun iron S & S pipes 200 mm dia	100 metre	631.03
2323	Spun iron S & S pipes 250 mm dia	100 metre	896.73
2324	Spun iron S & S pipes 300 mm. dia	100 metre	1108.37
2325	Spun iron S & S pipes 350 mm dia	100 metre	1551.71
2326	Spun iron S & S pipes 400 mm dia	100 metre	2115.97
2327	Spun iron S & S pipes 450 mm dia	100 metre	2586.19
2328	Spun iron S & S pipes 500 mm dia	100 metre	2586.19
2329	Spun iron S & S pipes 600mm dia 1	100 metre	3879.29
2330	C.I. pipes 500 mm dia	100 metre	2586.19
2331	R.C.C. pipes 900 mm dia	100 metre	5818.93
2332	R.C.C. pipes 1000 mm dia	100 metre	7758.57
2333	R. C. C. pipes 1100 mm dia	100 metre	7758.57
2334	R.C.C. pipes 1200 mm dia	100 metre	7758.57
2335	Jamuna sand	cum	106.49
2336	R.C.C. pipe above 1200 mm dia and upto 1800 mm dia	100 metre	7758.57
2341	Pig lead	tonne	94.65
2342	Solvent / Diesel.	quintal	10.65
2343	Ductile Iron pipes (k7) 100 mm dia	100 metre	232.76
2344	Cast iron pipes 150 mm dia	100 metre	387.93
2345	Cast iron ptpes 200 mm dia	100 metre	631.03
2346	Cast iron pipes 250 mm dia 100	metre	896.73
2347	Cast iron pipes 300 mm dia 100	metre	1108.37
2348	Cast iron pipes 350 mm dia 100	metre	1551.73
2349	Cast iron pipes 400 mm dia 100	metre	2115.97
2350	Cast iron pipes 450 mm dia 100	metre	2586.19
2351	Cast iron pipes 500 mm dia 100	metre	2586.19
2352	Cast iron pipes 600 mm dia 100	metre	3879.29
2353	Cast iron pipes 700 mm dia 100	metre	3879.29
2355	Cast iron pipes 800 mm dia 100	metre	3879.29
2356	Cast iron pipes 900 mm dia 100	metre	5818.93
2357	Cast iron pipes 1000 mm dia 100	metre	7758.57

SUB-HEAD : 1.0

CARRIAGE OF MATERIALS

CARRIAGE OF MATERIALS

DATA SHEET NO.1 FOR ANALYSIS OF RATES

1.1 BY MECHANICAL TRANSPORT INCLUDING LOADING ,UNLOADING AND STACKING

CODE	NAME	UNIT	RATE ₹
0005	HIRE CHARGES OF TRUCK	DAY	1700.00
0114	BELDAR	DAY	329.00
0115	Coolie	Day	329.00
1235	High Speed Diesel	Litre	55.49
5001	Mobile Oil	Litre	253.00

Lead in Km (L)	Average speed (S)	Nos of Trips N=8/(2L/S)+1)	Nos of km Done in one Day (2NL+6)	Litres of Diesel consumed @per litre	Cost of Diesel (1235) @ ₹ per Litre	Litres of Mobil oil Consumed @140 km. per Litre	Cost of Mobile oil (5001) @ ₹ per Litre	Cost of 6 Beldars (0114) @ ₹ per Day	Hire charges of truck ((0005) @ ₹ per Day	Total Cost = 6+8+9+10 in ₹	Cost per Trip = col. 11/ col. 3 in ₹	Increase of cost per km over previous km in ₹	Average cost per additional km after first 5, 10 and 20 km in ₹
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1 Km	16.00Km	7.11	20.22	4.04	224.18	0.144	36.43	1974.00	1700.00	3934.61	553.39		
2 Km	17.00Km	6.48	31.92	6.38	354.03	0.228	57.68	1974.00	1700.00	4085.71	630.51		
3 Km	17.50 Km	5.96	41.76	8.35	463.34	0.298	75.39	1974.00	1700.00	4212.74	706.83		
4 Km	18.00 Km	5.54	50.32	10.06	558.23	0.359	90.83	1974.00	1700.00	4323.06	780.34		
5 Km	18.50 Km	5.19	57.90	11.58	642.57	0.414	104.74	1974.00	1700.00	4421.32	851.89		
6 Km	19.00 Km	4.90	64.80	12.96	719.15	0.463	117.14	1974.00	1700.00	4510.29	920.47	68.58	
7 Km	19.50 Km	4.66	71.24	14.25	790.73	0.509	128.78	1974.00	1700.00	4593.51	985.73	65.26	
8 Km	20.00 Km	4.44	77.04	15.41	855.10	0.550	139.15	1974.00	1700.00	4668.25	1051.41	65.68	64.24
9 Km	20.50 Km	4.26	82.68	16.54	917.80	0.591	149.52	1974.00	1700.00	4741.33	1112.99	61.58	
10 Km	21.00 Km	4.10	88.00	17.60	976.62	0.629	159.14	1974.00	1700.00	4809.76	1173.11	60.12	
11 Km	21.50 Km	3.95	92.90	18.58	1031.00	0.664	167.99	1974.00	1700.00	4873.00	1233.67	60.56	
12 Km	22.00 Km	3.83	97.92	19.58	1086.49	0.699	176.85	1974.00	1700.00	4937.34	1289.12	55.45	
13 Km	22.50 Km	3.71	102.46	20.49	1136.99	0.732	185.20	1974.00	1700.00	4996.19	1346.68	57.56	
14 Km	23.00 Km	3.61	107.08	21.42	1188.60	0.765	193.55	1974.00	1700.00	5056.14	1400.59	53.91	
15 Km	23.50 Km	3.51	111.30	22.26	1235.21	0.795	201.14	1974.00	1700.00	5110.34	1455.94	55.34	
16 Km	24.00 Km	3.43	115.76	23.15	1284.59	0.827	209.23	1974.00	1700.00	5167.82	1506.65	50.72	53.40
17 Km	24.50 Km	3.35	119.90	23.98	1330.65	0.856	216.57	1974.00	1700.00	5221.22	1558.57	51.92	
18 Km	25.00 Km	3.28	124.08	24.82	1377.26	0.886	224.16	1974.00	1700.00	5275.42	1608.36	49.79	
19 Km	25.50 Km	3.21	127.98	25.60	1420.54	0.914	231.24	1974.00	1700.00	5325.79	1659.12	50.76	
20 Km	26.00 Km	3.15	132.00	26.40	1464.94	0.943	238.58	1974.00	1700.00	5377.52	1707.15	48.02	

Lead in Km (L)	Average speed (S)	Nos of Trips $N=8/(2L/S)+1$	Nos of km Done in one Day (2NL+6)	Litres of Diesel consumed @ 5 km per litre	Cost of Diesel (1235) @ ₹ per Litre	Litres of Mobil oil Consumed @140 km. per Litre	Cost of Mobile oil (5001) @ ₹ per Litre	Cost of 6 Beldars (0114) @ ₹ per Day	Hire charges of truck (0005) @ per Day	Total Cost = 6+8+9+10 in ₹	Cost per Trip = col. 11/col. 3 in ₹	Increase of cost per km over previous km in ₹	Average cost per additional km after first 5, 10 and 20 km in ₹
1	2	3	4	5	6	7	8	9	10	11	12	13	14
21 Km	26.50 Km	3.09	135.78	27.16	1507.11	0.970	245.41	1974.00	1700.00	5426.52	1756.15	49.01	
22 Km	27.00 Km	3.04	139.76	27.95	1550.95	0.998	252.49	1974.00	1700.00	5477.44	1801.79	45.63	
23 Km	27.50 Km	2.99	143.54	28.71	1593.12	1.025	259.33	1974.00	1700.00	5526.44	1848.31	46.52	
24 Km	28.00 Km	2.95	147.60	29.52	1638.06	1.054	266.66	1974.00	1700.00	5578.73	1891.09	42.79	
25 Km	28.50 Km	2.90	151.00	30.20	1675.80	1.079	272.99	1974.00	1700.00	5622.79	1938.89	47.80	
26 Km	29.00 Km	2.86	154.72	30.94	1716.86	1.105	279.57	1974.00	1700.00	5670.43	1982.67	43.77	44.13
27 Km	29.50 Km	2.83	158.82	31.76	1762.36	1.134	286.90	1974.00	1700.00	5723.26	2022.35	39.69	
28 Km	30.00 Km	2.79	162.24	32.45	1800.65	1.159	293.23	1974.00	1700.00	5767.88	2067.34	44.98	
29 Km	30.50 Km	2.76	166.08	33.22	1843.38	1.186	300.06	1974.00	1700.00	5817.44	2107.77	40.43	
30 Km	31.00 Km	2.73	169.80	33.96	1884.44	1.213	306.89	1974.00	1700.00	5865.33	2148.47	40.71	

Notes :

- 1 Number of trips in working day of 8 hours $N=8/((2L/S)+1)$. Where L=Lead in Km., S=Speed in Km.per hour, 1 hour is allowed for loading / unloading.
- 2 Consumption of diesel taken at 5 Km. per litre.
- 3 Consumption of mobile oil taken at 140 Km. per litre.
- 4 In column 4 of 'km done' an allowance of 6.0 km has been made for movement of truck from parking place to duty & back.
- 5
 - (i) Cost of diesel @ (1235) per litre
 - (ii) Cost of mobile oil @ (5001) per litre
 - (iii) Hire charges of truck @ (0005) for a day of 8 hours.

1.0 CARRIAGE OF MATERIALS

1.1 By Mechanical Transport including loading, unloading and stacking

S.No.	Matarial	Capacity per Trip	Net qty payable after dedu- ction for loose- ness	Unit of rates	C.P. & Over heads @ 15%	Cost per Trip per unit						Beyond 5 km upto 10 km per km As per Col. 14 of Data Sheet			Rem arks
						1 km	2 km	3 km	4 km	5 km					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1.1.1	Lime, moorum, building rubbish	8	8	cum	15%	79.55	90.64	101.61	112.17	122.46	9.24	7.68	6.34		
1.1.2	Earth	8	6.4	cum	15%	99.44	113.29	127.01	140.22	153.07	11.54	9.60	7.93		
1.1.3	Manure or sludge	8	7.36	cum	15%	86.47	98.52	110.44	121.93	133.11	10.04	8.34	6.90		
1.1.4	Excavated rock	8	4	cum	15%	159.10	181.27	203.22	224.35	244.92	18.47	15.35	12.69		
1.1.5	Sand, stone aggregate below 40 mm nominal size	8	8	cum	15%	79.55	90.64	101.61	112.17	122.46	9.24	7.68	6.34		
1.1.6	Stone aggregate 40 mm nominal size and above	8	7.36	cum	15%	86.47	98.52	110.44	121.93	133.11	10.04	8.34	6.90		
1.1.7	Soling stone	8	6.8	cum	15%	93.59	106.63	119.54	131.97	144.07	10.86	9.03	7.46		
1.1.8	Bricks	3000	3000	1000		212.13	241.70	270.95	299.13	326.56	24.63	20.47	16.92		
1.1.9	Brick Tiles	5000	5000	Nos	15%	127.28	145.02	162.57	179.48	195.94	14.78	12.28	10.15		
1.1.10	Cement, stone blocks, G.I., C.I., A.C., Stainless Steel & C.C.pipes below 100 mm dia and other heavy materials	9	9	tonne	15%	70.71	80.57	90.32	99.71	108.85	8.21	6.82	5.64		
1.1.11	Steel	9	9	tonne	15%	70.71	80.57	90.32	99.71	108.85	8.21	6.82	5.64		
1.1.12	Timber	7	7	cum	15%	90.91	103.58	116.12	128.20	139.95	10.55	8.77	7.25		
1.1.13	Tar Bitumen	8	8	tonne	15%	79.55	90.64	101.61	112.17	122.46	9.24	7.68	6.34		
1.1.14	Solvent	80	80	qtl	15%	7.95	9.06	10.16	11.22	12.25	0.92	0.77	0.63		
1.1.15	Steam Coal	7	7	toone	15%	90.91	103.58	116.12	128.20	139.95	10.55	8.77	7.25		
1.1.16	S.W. pipe														
1.1.16.1	100 mm dia	600	600	100 m	15%	106.07	120.85	135.48	149.56	163.28	12.31	10.24	8.46		
1.1.16.2	150 mm dia	300	300	100 m	15%	212.13	241.70	270.95	299.13	326.56	24.63	20.47	16.92		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.1.16.3	200 mm dia	180	180	100 m	15%	353.56	402.83	451.59	498.55	544.26	41.04	34.12	28.20	
1.1.16.5	250 mm dia	105	105	100 m	15%	606.10	690.56	774.15	854.65	933.02	70.36	58.49	48.34	
1.1.16.6	300 mm dia	84	84	100 m	15%	757.62	863.20	967.69	1068.32	1166.28	87.95	73.11	60.42	
1.1.16.7	350 mm dia	60	60	100 m	15%	1060.67	1208.48	1354.77	1495.64	1632.79	123.13	102.36	84.59	
1.1.16.8	400 mm dia	42	42	100 m	15%	1515.24	1726.40	1935.38	2136.63	2332.56	175.91	146.22	120.84	
1.1.16.9	450 mm dia	33	33	100 m	15%	1928.48	2197.23	2463.21	2719.35	2968.71	223.88	186.10	153.79	
1.1.16.10	500 mm dia	30	30	100 m	15%	2121.33	2416.96	2709.53	2991.28	3265.58	246.27	204.71	169.17	
1.1.16.11	600 mm dia	24	24	100 m	15%	2651.67	3021.20	3386.92	3739.11	4081.98	307.84	255.89	211.47	
1.1.17	R.C.C. pipe, A.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, C.I. pipes and unreinforces cement pipes													
1.1.17.1	100 mm dia	366	366	100 m	15%	173.88	198.11	222.09	245.19	267.67	20.19	16.78	13.87	
1.1.17.2	125 mm dia	274	274	100 m	15%	232.26	264.63	296.66	327.51	357.55	26.96	22.41	18.52	
1.1.17.3	150 mm dia	219.6	219.6	100 m	15%	289.80	330.19	370.15	408.65	446.12	33.64	27.97	23.11	
1.1.17.4	200 mm dia	135	135	100 m	15%	471.41	537.10	602.12	664.73	725.69	54.73	45.49	37.59	
1.1.17.5	250 mm dia	95	95	100 m	15%	669.89	763.25	855.64	944.62	1031.24	77.77	64.65	53.42	
1.1.17.6	300 mm dia	76.86	76.86	100 m	15%	828.00	943.39	1057.59	1167.56	1274.62	96.12	79.90	66.03	
1.1.17.7	350 mm dia	54.9	54.9	100 m	15%	1159.20	1320.74	1480.62	1634.58	1784.47	134.57	111.87	92.45	
1.1.17.8	400 mm dia	40.26	40.26	100 m	15%	1580.73	1801.01	2019.03	2228.98	2433.37	183.51	152.54	126.06	
1.1.17.9	450 mm & 500 mm dia	32.94	32.94	100 m	15%	1932.00	2201.24	2467.70	2724.30	2974.12	224.29	186.44	154.08	
1.1.17.10	600, 700, 750 & 800 mm dia													
1.1.17.11	900 mm dia	21.96	21.96	100 m	15%	2898.00	3301.86	3701.55	4086.45	4461.18	336.43	279.66	231.11	
1.1.17.12	1000, 1100 & 1200 mm dia	14.64	14.64	100 m	15%	4346.99	4952.78	5552.32	6129.68	6691.77	504.65	419.49	346.67	
		10.98	10.98	100 m	15%	5795.99	6603.71	7403.10	8172.91	8922.36	672.87	559.33	462.23	

1.0 CARRIAGE OF MATERIALS

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.50 KM

Data Sheet for Analysis of Rates

Code No	Name	Unit	Rate
0114	Beldar	Day	329.00
0115	Coolie	Day	329.00

The following labour work for 8 hours a day will carry following material upto 1st 50 metre as given below:

0114/0115 Beldars (Male/Female) 7.67 Nos. @ Rs.329.00 = Rs.2523.43 (X)

1	Lime, moorum, earth, building rubbish etc.	35 cum
2	Sand, ballast and boulders	28 cum
3	Bricks	15000 nos
4	Brick tiles, Allahbad roofing tiles (flat or round)	24000 nos
5	Steam coal	30 tonnes

NOTE:-

1.67 extra coolie (Female coolie) will be required for every additional lead of 50 metre 0115 coolie 1.67 Nos. @ Rs. 329.00 = Rs.549.43 (Y)

Lead in metres	Cost per 8 hours day	Increase in cost for every additional 50 metres or part thereof
(X)		(Y)
50 metres	2523.43	549.43

Code No	Material	Capacity per Trip	Net Qty Payable after deduction for Looseness	Unit of rates	C.P. & Overheads	Cost per 8 hours day	Cost per unit	
							Cost for 1 st 50 metres	cost for addl. 50 m or part thereof beyond 1 st 50 m upto 0.50 km.
1	2	3	4	5	6	7	8	9
1.2.1	Lime, moorum, building rubbish	35	35	cum	15%	2901.94	82.91	18.05
1.2.2	Earth	35	28	cum	15%	2901.94	103.64	22.57
1.2.3	Manure or sludge	35	32.2	cum	15%	2901.94	90.12	19.62
1.2.4	Excavated rock	35	17.5	cum	15%	2901.94	165.83	36.11
1.2.5	Sand, stone aggregate below 40 mm nominal size	28	28	cum	15%	2901.94	103.64	22.57
1.2.6	Stone aggregate 40 mm nominal size and above	28	25.9	cum	15%	2901.94	112.04	24.40
1.2.7	Soling stone	28	23.8	cum	15%	2901.94	121.93	26.55
1.2.8	Bricks	15000 Nos	15000 Nos	1000 Nos	15%	2901.94	193.46	42.12
1.2.9	Brick Tiles	24000 Nos	24000 Nos	1000 Nos	15%	2901.94	120.91	26.33
1.2.10	Steam Coal	30 tonne	30 tonne	tonne	15%	2901.94	96.73	21.06

1.0 CARRIAGE OF MATERIALS

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.50 KM

Data Sheet for Analysis of Rates

Code	Name	Unit	Rate
0114	Beldar	Day	329.00
0115	Coolie	Day	329.00

The following labour work for 8 hours a day will carry following material upto 1st 50 metre as given below:

0114 Beldars 9.20 Nos. @ Rs.329.00 = Rs. 3026.80 (X)

Quantity of material as per column 3 of table below will be carried in 50 metres lead including loading and unloading.

NOTE:- 1.35 extra Beldar will be required for every additional lead of 50 metre 0114 coolie 1.35 Nos. @ Rs. 329.00 = Rs. 444.15 (Y)

Code No	Material	Capacity per Trip	Net Qty Payable after deduction for looseness	Unit of rates	C.P.& Over head @15%	Cost per 8 hours day	Cost per unit	
							Cost for 1 st 50 metres	cost for addl. 50 m or part thereof beyond 1 st 50 m upto 0.50 km.
1	2	3	4	5	6	7	8	9
1.2.11	Stone blocks ,G.I., C.I., Stainless Steel pipes below 100 mm dia and other heavy material	46 t	46 t	tonne	15%	3480.82	65.80	11.10
1.2.12	Cement	57.99 t	57.99 t	tonne	15%	3480.82	60.02	8.81
1.2.13	Steel	27 t	27 t	tonne	15%	3480.82	128.92	18.92
1.2.14	Timber	42 cum	42 cum	cum	15%	3480.82	82.88	12.16
1.2.15	Tar, bitumen etc.	46 t	46 t	toone	15%	3480.82	75.67	11.10
1.2.16	S.W. pipe							
1.2.16.1	100 mm dia	2298 m	2298 m	100 m	15%	3480.82	151.47	22.23
1.2.16.2	150 mm dia	1398 m	1398 m	100 m	15%	3480.82	248.99	36.54
1.2.16.3	200 mm dia	999 m	999 m	100 m	15%	3480.82	348.43	51.13
1.2.16.5	250 mm dia	600 m	600 m	100 m	15%	3480.82	580.14	85.13
1.2.16.6	300 mm dia	420 m	420 m	100 m	15%	3480.82	828.77	121.61
1.2.16.7	350 mm dia	300 m	300 m	100 m	15%	3480.82	1160.27	170.26
1.2.16.8	400 mm dia	240 m	240 m	100 m	15%	3480.82	1450.34	212.82
1.2.16.9	450 mm dia	198 m	198 m	100 m	15%	3480.82	1757.99	257.97
1.2.16.10	500 mm dia	162 m	162 m	100 m	15%	3480.82	2148.65	315.29
1.2.16.11	600 mm dia	132 m	132 m	100 m	15%	3480.82	2636.98	386.95
1.2.17	R.C.C. pipes , Steel cylinder, R.C. pipes, C.I. pipes, C.I. pipes and unreinforced cement pipes							
1.2.17.1	100 mm dia	1702 m	1702 m	100 m	15%	3480.82	204.51	30.01
1.2.17.2	125 mm dia	1391 m	1391 m	100 m	15%	3480.82	250.24	36.72
1.2.17.3	150 mm dia	1208 m	1208 m	100 m	15%	3480.82	288.15	42.28
1.2.17.4	200 mm dia	805 m	805 m	100 m	15%	3480.82	432.40	63.45

1	2	3	4	5	6	7	8	9
1.2.17.5	250 mm dia	458 m	458 m	100 m	15%	3480.82	760.00	111.52
1.2.17.6	300 mm dia	366 m	366 m	100 m	15%	3480.82	951.04	139.56
1.2.17.7	350 mm dia	256 m	256 m	100 m	15%	3480.82	1359.70	199.52
1.2.17.8	400 mm dia	220 m	220 m	100 m	15%	3480.82	1582.19	232.17
1.2.17.9	450 mm & 500 mm dia	165 m	165 m	100 m	15%	3480.82	2109.59	309.56
1.2.17.10	600, 700, 750 & 800 mm dia	150 m	150 m	100 m	15%	3480.82	2320.55	340.52
1.2.18	Asbestos cement pipes							
1.2.18.1	50 mm dia	10064	10064	100 m	15%	3480.82	34.59	5.08
1.2.18.2	80 mm dia	3660	3660	100 m	15%	3480.82	95.10	13.96
1.2.18.3	100 mm dia	2562	2562	100 m	15%	3480.82	135.86	19.94
1.2.18.4	150 mm dia	1830	1830	100 m	15%	3480.82	190.21	27.91

1.3 Loading in or unloading cement from the Railway wagon at siding and carrying the same from or into godowns adjacent to the siding, Including stacking the same properly in rows upto any height as per the direction of Engineer-in-charge, sweeping the wagons and screening the swept cement and filling in bags complete.

Code No	Description	Unit	Quantity	Rate(Rs.)	Amount (Rs.)
	Details of cost of unloading wagon of 23 tonnes				
0114	Beldars	Each	3.75	329.00	1233.75
9999	Sundries (add for sweeping the wagon, screening the swept cement and filling the same in bags.	L.S.	2.62	1.78 Total Add 15% CPOH Cost for 23 tonnes Cost per tonne Say	4.66 1238.41 185.76 1424.18 61.92 61.90

1.4 Loading in or unloading from the Railway wagon as per the direction of Engineer-in-charge.

1.4.1 Steel

Code No	Description	Unit	Quantity	Rate(Rs.)	Amount (Rs.)
	Details of 44 tonnes of steel				
0114	Beldars	Each	10.66	329.00	3507.14
				Total Add 15% CPOH Cost for 44 tonnes Cost per tonne Say	3507.14 526.071 4033.21 91.66 91.65

1.4.2 Gl., Cl, R.C.C or C.C. Pipes Upto 500mm dia and similar Material

Code No	Description	Unit	Quantity	Rate(Rs.)	Amount (Rs.)
	Details of cost for unloading 1 wagon of 14 tonnes				
0114	Beldars	Each	2.00	329.00	658.00
9999	Sundries	L.S.	3.1	1.78	5.518
				Total	663.52
				Add 15% CPOH	99.53
				Cost for 14 tonnes	763.05
				Cost per tonne	54.50
				Say	54.50

SUB HEAD : 2.0

EARTH WORK

2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed :				
2.1.1	All kinds of soil				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm and average depth 15 cm</i>				
	LABOUR:				
0114	Beldar	day	7.200	329.00	2368.80
0115	Coolie	day	6.000	329.00	1974.00
	TOTAL				4342.80
	Add Water Charges @ 1%				43.43
	TOTAL				4386.23
	Add CPOH @ 15%				657.93
	Cost of 100 sqm				5044.16
	Say				5044.15
2.2	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m :				
2.2.1	All kinds of soil				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	LABOUR:				
0114	Beldar	day	5.900	329.00	1941.10
0115	Coolie	day	3.600	329.00	1184.40
0101	Bhisti	day	0.400	363.00	145.20
0113	Chowkidar	day	0.008	329.00	2.63
	Roller charges (one roller does 1850 sqm. of consolidation per day)				
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.008	1500.00	12.00
1235	Diesel oil	litre	0.144	55.49	7.99
2342	Carriage of Solvent / Diesel.	quintal	0.001	10.65	0.01
9999	Sundries	L.S.	2.730	1.78	4.86
	TOTAL				3298.19
	Add Water Charges @ 1%				32.98
	TOTAL				3331.17
	Add CPOH @ 15%				499.68
	Cost of 10 cum				3830.85
	Cost of 1 cum				383.09
	Say				383.10

- 2.3 Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead up to 50 m and lift up to 1.5 m :**

2.3.1 All kinds of soil

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	LABOUR:				
0114	Beldar	day	2.200	329.00	723.80
0115	Coolie	day	3.600	329.00	1184.40
0101	Bhisti	day	0.400	363.00	145.20
	Roller charges (one roller does 1850 sqm. of consolidation per day)				
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.008	1500.00	12.00
0113	Chowkidar	day	0.008	329.00	2.63
1235	Diesel oil	litre	0.144	55.49	7.99
2342	Carriage of Solvent / Diesel.	quintal	0.001	10.65	0.01
9999	Sundries	L.S.	2.730	1.78	4.86
	TOTAL				2080.89
	Add Water Charges @ 1%				20.81
	TOTAL				2101.70
	Add CPOH @ 15%				315.25
	Cost of 10 cum				2416.95
	Cost of 1 cum				241.70
	Say				241.70

- 2.4 Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	LABOUR:				
0113	Chowkidar	day	0.008	329.00	2.63
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.008	1500.00	12.00
1235	Diesel oil	litre	0.144	55.49	7.99
2342	Carriage of Solvent / Diesel.	quintal	0.001	10.65	0.01
9999	Sundries	L.S.	1.820	1.78	3.24
	TOTAL				25.87
	Add Water Charges @ 1%				0.26
	TOTAL				26.13
	Add CPOH @ 15%				3.92
	Cost of 10 cum				30.05
	Cost of 1 cum				3.01
	Say				3.00

2.5 Deduct for not watering the excavated earth for banking					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	LABOUR:				
0101	Bhisti	day	0.400	363.00	145.20
	TOTAL				145.20
	Add Water Charges @ 1%				1.45
	TOTAL				146.65
	Add CPOH @ 15%				22.00
	Cost of 10 cum				168.65
	Cost of 1 cum				16.87
	Say				16.85
2.6 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.					
2.6.1 All kinds of soil					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum. Average output of Hydraulic Excavator per hour = 30cum.</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.041	8000.00	330.00
0018	Hire and running charges of loader	day	0.041	5000.00	206.25
	LABOUR:				
0128	Mate	day	0.400	363.00	145.20
	Beldar/				
0115	Coolie	day	2.000	329.00	658.00
	TOTAL				1339.45
	Add Water Charges @ 1%				13.39
	TOTAL				1352.84
	Add CPOH @ 15%				202.93
	Cost of 10 cum				1555.77
	Cost of 1 cum				155.58
	Say				155.60
2.7 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.					
2.7.1 Ordinary rock					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.063	8000.00	500.00
0017	Hire and running charges of tipper	day	0.063	1700.00	106.25
0132	Rock Excavator	day	0.705	329.00	231.94
0133	Rock Breaker	day	1.590	329.00	523.11

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0134	Rock Hole Driller	day	0.355	329.00	116.79
0114	Beldar	day	0.500	329.00	164.50
0115	Coolie	day	1.350	329.00	444.15
9999	Sundries	L.S.	10.790	1.78	19.21
	TOTAL				2105.95
	Add Water Charges @ 1%				21.06
	TOTAL				2127.01
	Add CPOH @ 15%				319.05
	Cost of 10 cum				2446.06
	Cost of 1 cum				244.61
	Say				244.60

2.7.2 Hard rock (requiring blasting)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	8000.00	1000.00
0017	Hire and running charges of tipper	day	0.125	1700.00	212.50
0132	Rock Excavator	day	1.060	329.00	348.74
0133	Rock Breaker	day	2.825	329.00	929.42
0134	Rock Hole Driller	day	0.885	329.00	291.17
0114	Beldar	day	0.450	329.00	148.05
0115	Coolie	day	1.350	329.00	444.15
0325	Blasting powder	kilogram	3.930	35.00	137.55
0326	Blasting fuse (fuse wire)	each	4.000	15.00	60.00
9999	Sundries	L.S.	16.120	1.78	28.69
	TOTAL				3600.27
	Add Water Charges @ 1%				36.00
	TOTAL				3636.27
	Add CPOH @ 15%				545.44
	Cost of 10 cum				4181.71
	Cost of 1 cum				418.17
	Say				418.15

2.7.3 Hard rock (blasting prohibited)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	8000.00	1000.00
0017	Hire and running charges of tipper	day	0.125	1700.00	212.50
0132	Rock Excavator	day	2.470	329.00	812.63
0133	Rock Breaker	day	6.000	329.00	1974.00
0135	Stone Chiseller	day	1.060	363.00	384.78
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Blacksmith 2nd class	day	0.175	399.00	69.82
0114	Beldar	day	0.750	329.00	246.75
0115	Coolie	day	1.800	329.00	592.20

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	16.120	1.78	28.69
	TOTAL				5321.37
	Add Water Charges @ 1%				53.21
	TOTAL				5374.58
	Add CPOH @ 15%				806.19
	Cost of 10 cum				6180.77
	Cost of 1 cum				618.08
	Say				618.10

2.8 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.

2.8.1 All kinds of soil

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.041	8000.00	330.00
0018	Hire and running charges of loader	day	0.041	5000.00	206.25
	LABOUR:				
0128	Mate	day	0.400	363.00	145.20
	Beldar/				
0115	Coolie	day	2.050	329.00	674.45
	TOTAL				1355.90
	Add Water Charges @ 1%				13.56
	TOTAL				1369.46
	Add CPOH @ 15%				205.42
	Cost of 10 cum				1574.88
	Cost of 1 cum				157.49
	Say				157.50

2.9 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.

2.9.1 Ordinary rock

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.063	8000.00	500.00
0017	Hire and running charges of tipper	day	0.063	1700.00	106.25
	LABOUR:				
0132	Rock Excavator	day	0.885	329.00	291.17
0133	Rock Breaker	day	1.765	329.00	580.68
0134	Rock Hole Driller	day	0.530	329.00	174.37
0114	Beldar	day	0.500	329.00	164.50
0115	Coolie	day	1.300	329.00	427.70

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				2268.74
	Add Water Charges @ 1%				22.69
	TOTAL				2291.43
	Add CPOH @ 15%				343.71
	Cost of 10 cum				2635.14
	Cost of 1 cum				263.51
	Say				263.50

2.9.2 Hard rock (requiring blasting)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	8000.00	1000.00
0017	Hire and running charges of tipper	day	0.125	1700.00	212.50
	LABOUR:				
0132	Rock Excavator	day	1.240	329.00	407.96
0133	Rock Breaker	day	3.000	329.00	987.00
0134	Rock Hole Driller	day	1.060	329.00	348.74
0114	Beldar	day	0.500	329.00	164.50
0115	Coolie	day	1.300	329.00	427.70
0325	Blasting powder	kilogram	6.420	35.00	224.70
0326	Blasting fuse (fuse wire)	each	7.000	15.00	105.00
9999	Sundries	L.S.	18.850	1.78	33.55
	TOTAL				3911.65
	Add Water Charges @ 1%				39.12
	TOTAL				3950.77
	Add CPOH @ 15%				592.62
	Cost of 10 cum				4543.39
	Cost of 1 cum				454.34
	Say				454.35

2.9.3 Hard rock (blasting prohibited)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	8000.00	1000.00
0017	Hire and running charges of tipper	day	0.125	1700.00	212.50
	LABOUR:				
0132	Rock Excavator	day	2.650	329.00	871.85
0133	Rock Breaker	day	6.175	329.00	2031.58
0135	Stone Chiseller	day	1.060	363.00	384.78
0103	Blacksmith 2nd class	day	0.175	399.00	69.82
0114	Beldar	day	0.750	329.00	246.75
0115	Coolie	day	1.500	329.00	493.50
9999	Sundries	L.S.	17.940	1.78	31.93
	TOTAL				5342.71
	Add Water Charges @ 1%				53.43
	TOTAL				5396.14
	Add CPOH @ 15%				809.42
	Cost of 10 cum				6205.56
	Cost of 1 cum				620.56
	Say				620.55

2.10 Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :

2.10.1 All kinds of soil

2.10.1.1 Pipes, cables etc, not exceeding 80 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 180m length of pipe of an average dia. say 40mm.</i>				
	Slope assumed — 1 in 200.				
	Earth work and filling-				
	Minimum depth of trench 60cm.				
	Average depth = $(0.6+1.50) / 2 = 1.05$				
	Width for this depth = 0.45 cm				
	$180 \times 0.45 \times 1.05 = 85.05$ cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	85.050	157.50	13395.38 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	85.050	112.40	9559.62 A
	TOTAL				22955.00
	Cost of 180 metre length of pipe				22955.00
	Cost of 1 metre				127.53
	Say				127.55

2.10.1.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 110m length of a pipe of an average dia. say 200mm.</i>				
	Slope assumed 1 in 200.				
	Earth work and filling-				
	Minimum depth of trench = $0.75+0.20 = 0.95$ m				
	Average depth = $(1.50+0.95)/2 = 1.225$ m				
	Width = $0.40 + 0.20 = 0.60$ m				
	$110 \times 0.60 \times 1.225 = 80.85$ cum				
	5% for collars = 4.04 cum				
	Total = 84.89 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	84.890	157.50	13370.18 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	84.890	112.40	9541.64 A
	TOTAL				22911.82
	Cost of 110 metre length of pipe				22911.82
	Cost of 1 metre				208.29
	Say				208.30

2.10.1.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 60m length of pipe of an average dia. say 450mm.</i> Slope assumed 1 in 200. Earth work and filling - Minimum depth of trench = $0.75+0.45= 1.20\text{m}$ Average depth = $(1.50+1.20)/2 =1.35$ Width = $0.40 + 0.45 = 0.85 \text{ m}$ $60 \times 0.85 \times 1.35 = 68.85 \text{ cum}$ 5% for collars = 3.44 cum Total = 72.29 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	72.290	157.50	11385.68A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	72.290	112.40	8125.40A
	TOTAL				19511.08
	Cost of 60 metre length of pipe				19511.08
	Cost of 1 metre				325.18
	Say				325.20

2.11 Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m (Rate is over corresponding basic item for depth up to 1.5 metre).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 300m length of pipe of an average dia. say 200mm (rate in percentage)</i> Slope assumed 1 in 200. $100 \times 0.60 \times 1.75 = 105.00 \text{ cum}$ $200 \times 0.60 \times 2.00 = 240.00 \text{ cum.}$ Total = 345.00 cum. Collars 5% = 17.25 cum. Total = 362.25 cum.				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	362.250	157.50	57054.38
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	362.250	112.40	40716.90
	$1/2 \times 200 \times 1.60 \times 1.00 = 160 \text{ cum}$				
2.6.1	Rate as per Item Number 2.6.1 of SH: Earth work	cum	160.000	155.60	24896.00
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	160.000	112.40	17984.00
	Extra for additional lift $1/2 \times 200 \times 0.60 \times 1.50 = 135.00 \text{ cum.}$ collars @ 5% = 6.75 Total = 141.75 cum				
2.26.1	Rate as per Item Number 2.26.1 of SH: Earth work	cum	141.750	46.25	6555.94
	Cost for 300m length of pipe				
	TOTAL = 147207.22				147207.22X
2.10.1.2	Rate as per Item Number 2.10.1.2 of SH: Earth work	metre	300.000	208.30	62490.00Y
	Cost for 300 m. length of pipe				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	upto 1.50 m. depth				
	Extra cost for 300 metre				
	$X - Y = 147207.22 - 62490.00$				84717.22Z
	Extra cost for 1 metre				
	$Z / 300 = 84717.22 / 300$				282.39
	Percentage increase over item No. 2.10.1.2				
	$Z \times 100 / Y = 84717.22 \times 100 / 62490.00$				135.57
	Cost of 1 metre				135.57
	Say				136.00
2.12	Extra for excavating trenches for pipes, cables, etc, in all kinds of soil for depth exceeding 3 m in depth, but not exceeding 4.5 m (Rate is over corresponding basic item for depth up to 1.5 metre).				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 m length of pipe pipe of an average dia. say 200 mm (rate in percentage)</i>				
	Slope assumed 1 in 200. Earth work and filling- $1 \times 100 \times 0.60 \times 2 = 120$ cum				
	Collars 5% = 6 cum.				
	Total = 126 cum.				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	126.000	157.50	19845.00
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	126.000	112.40	14162.40
	Earth work $100 \times 1.60 \times 1.25 = 200$ cum				
2.6.1	Rate as per Item Number 2.6.1 of SH: Earth work	cum	200.000	155.60	31120.00
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	200.000	112.40	22480.00
	Extra for additional lift $1 \times 100 \times 0.60 \times 1.50 = 90$ cum $2 \times 0.50 \times 100 \times 0.60 \times 0.50 = 30$ cum				
	Total = 120 cum				
	Collare 5% = 6				
	Total = 126 cum.				
2.26.1	Rate as per Item Number 2.26.1 of SH: Earth work	cum	126.000	46.25	5827.50
	Cost for 300m length of pipe TOTAL = 93434.90				93434.90 X
2.10.1.2	Rate as per Item Number 2.10.1.2 of SH: Earth work	metre	100	208.30	20830.00 Y
	Cost for 100 m. length of pipe upto 1.50 m. depth				
	Extra cost for 100 metres				
	$X - Y = 93434.90 - 20830.00$				72604.90 Z
	Extra cost for 1 metre				
	$Z / 100 = 72604.90 / 100$				726.05
	Percentage increase over item No. 2.10.1.2				
	$Z \times 100 / Y = 72604.90 \times 100 / 20830.00$				348.56
	Cost of 1 metre				348.56
	Say				349.00

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth up to 1.5 m including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :

2.13.1 Ordinary rock

2.13.1.1 Pipes, cables etc. not exceeding 80 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 180m length of pipe of a average dia. say 40mm.</i>				
	Slope assumed 1 in 200				
	Excavation-				
	Quantity same as				
	in item No.2.10.1.1				
2.9.1	Rate as per Item Number 2.9.1 of				
	SH: Earth work	cum	85.050	263.50	22410.68 A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of				
	SH: Earth work	cum	85.050	112.40	9559.62 A
	Extra labour for ramming of rock				
0114	Beldar	day	2.000	329.00	658.00
	TOTAL				32628.30
	Add Water Charges @ 1% except on A i.e on				
	(32,628.30 - 31,970.30=) 658.00				6.58
	TOTAL				32634.88
	Add CPOH @ 15% except on A i.e on				
	(32,634.88 - 31,970.30 =) 664.58				99.69
	Cost of 180 metre length of pipe				32734.57
	Cost of 1 metre				181.86
	Say				181.85

2.13.1.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 80m length of pipe of an average dia. Say 200mm.</i>				
	Slope assumed 1 in 200				
	Excavation -				
	Minimum depth of trench.				
	$0.75+0.15+0.20 = 1.10\text{m}$				
	Average depth = $(1.10 + 1.50)/2 = 1.30\text{m}$				
	Minimum width of trench = 0.90m				
	$80 \times 0.90 \times 1.30 = 93.60 \text{ cum.}$				
2.9.1	Rate as per Item Number 2.9.1 of				
	SH: Earth work	cum	93.600	263.50	24663.60 A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of				
	SH: Earth work	cum	93.600	112.40	10520.64 A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Extra labour for ramming of rock Beldar	day	2.200	329.00	723.80
	TOTAL				35908.04
	Add Water Charges @ 1% except on A i.e on (35,908.04 - 35,184.24 =) 723.80				7.24
	TOTAL				35915.28
	Add CPOH @ 15% except on A i.e on (35,915.28 - 35,184.24 =) 731.04				109.66
	Cost of 80 metre length of pipe				36024.94
	Cost of 1 metre				450.31
	Say				450.30

2.13.1.3 Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30m length of pipe of an average dia. say 450mm.</i>				
	Slope assumed 1 in 200.				
	Excavation-				
	Minimum depth of trench = 0.75+0.15+0.15= 1.35m.				
	Average depth = (1.35 + 1.50)/2 = 1.425 m.				
	Width of trench = 0.90 m.				
	30x0.90x1.425 =38.475 cum.				
	5% for collors = 1.924 cum				
	Total = 40.399 cum				
2.9.1	Rate as per Item Number 2.9.1 of SH: Earth work	cum	40.399	263.50	10645.14A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	40.399	112.40	4540.85A
0114	Beldar	day	0.940	329.00	309.26
	TOTAL				15495.25
	Add Water Charges @ 1% except on A i.e on (15,495.25 - 15,185.99 =) 309.26				3.09
	TOTAL				15498.34
	Add CPOH @ 15% except on A i.e on (15,498.34 - 15,185.99 =) 312.35				46.85
	Cost of 30 metre length of a pipe				15545.19
	Cost of 1 metre				518.17
	Say				518.15

2.13.2 Hard rock (requiring blasting)

2.13.2.1 Pipes, cables etc. not exceeding 80 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 180 m length of a pipe of a average dia. say 40mm.</i>				
	Slope assumed 1 in 200 Excavation-Quantity same as in item No.2.10.1.1				
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work	cum	85.050	454.35	38642.47A
	Refilling, ramming and watering				
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	85.050	112.40	9559.62A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Extra labour for ramming of rock Beldar	day	2.500	329.00	822.50
	TOTAL				49024.59
	Add Water Charges @ 1% except on A i.e on (49,024.59 - 48,202.09 =) 822.50				8.22
	TOTAL				49032.81
	Add CPOH @ 15% except on A i.e on (49,032.81 - 48,202.09 =) 830.72				124.61
	Cost of 180 metre length of pipe				49157.42
	Cost of 1 metre				273.10
	Say				273.10

2.13.2.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 80 m length of a pipe of an average dia. say 200mm.</i>				
	Slope assumed 1 in 200 Excavation-Quantity same as in item No.2.13.1.2				
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work Refilling, ramming and watering	cum	93.600	454.35	42527.16 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	93.600	112.40	10520.64 A
0114	Extra labour for ramming of rock Beldar	day	2.750	329.00	904.75
	TOTAL				53952.55
	Add Water Charges @ 1% except on A i.e on (53,952.55 - 53,047.80 =) 904.75				9.05
	TOTAL				53961.60
	Add CPOH @ 15% except on A i.e on (53,961.60 - 53,047.80 =) 913.80				137.07
	Cost of 80 metre length of pipe				54098.67
	Cost of 1 metre				676.23
	Say				676.25

2.13.2.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30 m length of a pipe of an average dia. Say 450mm.</i>				
	Slope assumed 1 in 200Excavation-Quantity same as in item No.2.13.1.3				
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work Refilling, ramming and watering	cum	40.399	454.35	18355.29A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	40.399	112.40	4540.85A
0114	Extra labour for ramming of rock Beldar	day	1.170	329.00	384.93
	TOTAL				23281.07
	Add Water Charges @ 1% except on A i.e on (23,281.07 - 22,896.14 =) 384.93				3.85
	TOTAL				23284.92
	Add CPOH @ 15% except on A i.e on (23,284.92 - 22,896.14 =) 388.78				58.32
	Cost of 30 metre length of pipe				23343.24
	Cost of 1 metre				778.11
	Say				778.10

2.13.3 Hard rock (blasting prohibited)**2.13.3.1 Pipes, cables etc. not exceeding 80 mm dia**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 180 m length of a pipe of a average dia. say 40mm.</i>				
	Slope assumed 1 in 200 Excavation-Quantity same as in item No.2.10.1.1				
2.9.3	Rate as per Item Number 2.9.3 of SH: Earth work Refilling, ramming and watering	cum	85.050	620.55	52777.78A
2.25	Rate as per Item Number 2.25 of SH: Earth work Extra labour for ramming of rock	cum	85.050	112.40	9559.62A
0114	Beldar	day	2.500	329.00	822.50
	TOTAL				63159.90
	Add Water Charges @ 1% except on A i.e on (63,159.90 - 62,337.40 =) 822.50				8.22
	TOTAL				63168.12
	Add CPOH @ 15% except on A i.e on (63,168.12 - 62,337.40 =) 830.72				124.61
	Cost of 180 metre length of pipe				63292.73
	Cost of 1 metre				351.63
	Say				351.65

2.13.3.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 80 m length of a pipe of an average dia. say 200mm.</i>				
	Slope assumed 1 in 200 Excavation-Quantity same as in item No.2.13.1.2				
2.9.3	Rate as per Item Number 2.9.3 of SH: Earth work Refilling, ramming and watering	cum	93.600	620.55	58083.48A
2.25	Rate as per Item Number 2.25 of SH: Earth work Extra labour for ramming of rock	cum	93.600	112.40	10520.64A
0114	Beldar	day	2.750	329.00	904.75
	TOTAL				69508.87
	Add Water Charges @ 1% except on A i.e on (69,508.87 - 68,604.12 =) 904.75				9.05
	TOTAL				69517.92
	Add CPOH @ 15% except on A i.e on (69,517.92 - 68,604.12 =) 913.80				137.07
	Cost of 80 metre length of pipe				69654.99
	Cost of 1 metre				870.69
	Say				870.70

2.13.3.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30 m length of a pipe of an average dia. say 450mm.</i>				
	Slope assumed 1 in 200 Excavation-Quantity same as in item No. 2.13.1.3				
2.9.3	Rate as per Item Number 2.9.3 of SH: Earth work Refilling, ramming and watering	cum	40.399	620.55	25069.60A
2.25	Rate as per Item Number 2.25 of SH: Earth work Extra labour for ramming of rock	cum	40.399	112.40	4540.85A
0114	Beldar	day	1.170	329.00	384.93

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				29995.38
	Add Water Charges @ 1% except on A i.e on (29,995.38 - 29,610.45 =) 384.93				3.85
	TOTAL				29999.23
	Add CPOH @ 15% except on A i.e on (29,999.23 - 29,610.45 =) 388.78				58.32
	Cost of 30 metre length of pipe				30057.55
	Cost of 1 metre				1001.92
	Say				1001.90
2.14	Extra for excavating trenches for pipes, cables, etc. in ordinary / hard rock exceeding 1.5 m in depth but not exceeding 3 m (Rate is over corresponding basic item for depth up to 1.5 metre).				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 300m length of a pipe of an average dia. say 200mm. (rate in percentage)</i>				
	Slope assumed 1 in 200.				
	Excavation-100x0.90x1.50 = 157.50 cum.				
	200x0.90x20.00 = 360.00 cum. = 517.50 cum.				
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work 0.50x200x1.9x1 = 190 cum.	cum	517.500	454.35	235126.12
2.7.2	Rate as per Item Number 2.7.2 of SH: Earth work Refilling, ramming and watering 517.50+190.00 = 707.50 cum.	cum	190.000	418.15	79448.50
2.25	Rate as per Item Number 2.25 of SH: Earth work Extra for additional lift 0.50x300x0.90x1.50 = 202.50 cum.	cum	707.500	112.40	79523.00
2.26.2	Rate as per Item Number 2.26.2 of SH: Earth work Extra labour for ramming of rock	cum	202.500	82.95	16797.38
0114	Beldar	day	16.500	329.00	5428.50P
	TOTAL = 416323.50				416323.50S
	Add for WC @ 1% on P P X 1 / 100 = 5428.50 X 1 / 100				54.29Q
	TOTAL S + Q = 416323.50 + 54.29				416377.79
	Add for CPOH @ 15% on P + Q (P + Q) X 15 / 100 = (5428.50 + 54.29) X 15 / 100				822.42 R
	Cost for 300 m length of pipe S + Q + R = 416323.50 + 54.29 + 822.42				417200.21 X
2.13.2.2	Rate as per Item Number 2.13.2.2 of SH: Earth work	metre	300.000	676.25	202875.00 Y
	Extra cost for 300 m X - Y = 417200.21 - 202875.00				214325.21 Z
	Extra cost for 1 metre Z / 300 = 214325.21 / 300				714.42
	Percentage increase over item No. 2.13.2.2 Z X 100 / Y = 214325.21 X 100 / 202875.00				105.64
	Cost of 1 metre				105.64
	Say				106.00

2.15 Extra for excavating trenches for pipes, cables, etc. in ordinary / hard rock exceeding 3 m in depth but not exceeding 4.5 m (Rate is over corresponding basic item for depth up to 1.5 metre).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100m length of a pipe of an average dia. say 200mm. (rate in percentage)</i> Slope assumed 1 in 200. Max, depth assumed 3.50m Excavation - $100 \times 0.90 \times 2 = 180.00 \text{ cum.}$				
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work $100 \times 1.90 \times 1.25 = 237.50 \text{ cum}$	cum	180.000	454.35	81783.00
2.7.2	Rate as per Item Number 2.7.2 of SH: Earth work Extra for additional lift $1 \times 100 \times 0.90 \times 1.50 = 135.$ $002 \times 0.50 \times 100 \times 0.90 \times 0.5 = 45$ Total = 180 cum	cum	237.500	418.15	99310.62
2.26.2	Rate as per Item Number 2.26.2 of SH: Earth work Refilling, ramming and watering $180 + 237.50 = 417.50 \text{ cum}$	cum	180.000	82.95	14931.00
2.25	Rate as per Item Number 2.25 of SH: Earth work Extra labour for ramming of rock	cum	417.500	112.40	46927.00
0114	Beldar	day	9.250	329.00	3043.25 P
	TOTAL = 245994.87				245994.87 S
	Add for WC @ 1% on P				
	$P \times 1 / 100 = 3043.25 \times 1 / 100$				30.43 Q
	TOTAL				
	$S + Q = 245994.87 + 30.43$				246025.30
	Add for CPOH @ 15% on P + Q				
	$(P + Q) \times 15 / 100 = (3043.25 + 30.43) \times 15 / 100$				461.05 R
	Cost for 100 m length of pipe				
	$S + Q + R = 245994.87 + 30.43 + 461.05$				246486.35 X
2.13.2.2	Rate as per Item Number 2.13.2.2 of SH: Earth work	metre	100.000	676.25	67625.00 Y
	Extra cost for 100 m				
	$X - Y = 246486.35 - 67625.00$				178861.35 Z
	Extra cost for 1 metre				
	$Z / 100 = 178861.35 / 100$				1788.61
	Percentage increase over item No. 2.13.2.2				
	$Z \times 100 / Y = 178861.35 \times 100 / 67625.00$				264.49
	Cost of 1 metre				264.49
	Say				264.00

2.16 Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete (Measurements to be taken of the face area timbered).

2.16.1 Depth not exceeding 1.5 m

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a trench 30m long and 1.5m deep. Area = $2 \times 30 \times 1.5 = 90 \text{ sqm.}$</i> MATERIAL: The material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cudm Qty taken for cost of using once after deducting for credit = $3420 \times \frac{1}{4} \times \frac{1}{4} =$ 213.75 cudm	10 cudm	213.750	260.00	5557.50
1197	Wallings 100mmx 100mm of Second class kail wood in scantling 4x30x0.10x0.10 = 1.20 cum= 1200 cudm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75$ cudm	10 cudm	75.000	260.00	1950.00
0302	Safeda ballies 125 mm diameter and 1.5m long 2x17x1.50 = 51m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.1875$ m CARRIAGE: Poling boards = 3.42 cum Walling = 1.20 cum. Balli struts: $3.14/4 \times (0.125)3 \times 51 = 0.63$ cum Total of carriage = $5.25 \times \frac{1}{4} = 1.3125$ cum	metre	3.188	42.00	133.88
2204	Carriage of timber	cum	1.313	121.70	159.73
0112	Carpenter 2nd class	day	0.500	399.00	199.50
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries	L.S.	26.910	1.78	47.90
TOTAL					8377.51
Add Water Charges @ 1%					83.78
TOTAL					8461.29
Add CPOH @ 15%					1269.19
Cost of 90 sqm					9730.48
Cost of 1 sqm					108.12
Say					108.10

2.16.2 Depth exceeding 1.5 m but not exceeding 3 m

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for a trench 30m long and 1.5m deep.</i>					
<i>Area = $2 \times 30 \times 1.5 = 90$ sqm.</i>					
MATERIAL:					
The Material can be used four times on the same work and after use of material credit is given @ 75% of cost					
1198	Poling boards of Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cudm Qty taken for cost of using once after deducting for credit = $3420 \times \frac{1}{4} \times \frac{1}{4} = 213.75$ cudm	10 cudm	213.750	260.00	5557.50
1197	Walings 100 mmx 100mm of Second class kail wood in scantling 4x30x0.10x0.10 = 1.20 cum = 1200 cudm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75$ cudm	10 cudm	75.000	260.00	1950.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0302	Safeda ballies 125 mm diameter and 1.50m long $2 \times 17 \times 1.50 = 51\text{m}$ Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.1875\text{m}$ CARRIAGE: Poling boards = 3.42 cum Walling = 1.20 cum. Balli struts: $3.14/4 \times (0.125) \times 3 \times 51 = 0.63 \text{ cum}$ Total of carriage = $5.25 \times \frac{1}{4} = 1.3125 \text{ cum}$.	metre	3.188	42.00	133.88
2204	Carriage of timber	cum	1.313	121.70	159.73
0112	Carpenter 2nd class	day	0.750	399.00	299.25
0114	Beldar	day	2.000	329.00	658.00
9999	Sundries	L.S.	40.430	1.78	71.97
TOTAL					8830.33
Add Water Charges @ 1%					88.30
TOTAL					8918.63
Add CPOH @ 15%					1337.79
Cost of 90 sqm					10256.42
Cost of 1 sqm					113.96
Say					113.95

2.16.3 Depth exceeding 3 m but not exceeding 4.5 m

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for a trench 30m long and 1.5m deep. Area = $2 \times 30 \times 1.5 = 90 \text{ sqm}$.</i>					
MATERIAL:					
The Material can be used four times on the same work and after use of material credit is given @ 75% of cost					
Poling boards of					
1198	Second class kail wood in planks $90 \times 0.038 = 3.42 \text{ cum} = 340 \text{ cu dm}$ Qty taken for cost of using once after deducting for credit = $3420 \times \frac{1}{4} \times \frac{1}{4} = 213.75 \text{ cu dm}$	10 cu dm	213.750	260.00	5557.50
1197	Wallings 100mm x 100mm of Second class kail wood in scantling $4 \times 30 \times 0.10 \times 0.10 = 1.20 \text{ cum} = 1200 \text{ dm}^3$ Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75 \text{ cu dm}$	10 cu dm	75.000	260.00	1950.00
0302	Safeda ballies 125 mm diameter and 1.5m long $2 \times 17 \times 1.5 = 51\text{m}$ Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.1875\text{m}$ CARRIAGE: Poling boards = 3.42 cum Walling - = 1.20 cum. Balli struts: $3.14/4 \times (0.125) \times 3 \times 51 = 0.63 \text{ cum}$ Total of carriage = $5.25 \times \frac{1}{4} = 1.3125 \text{ cum}$.	metre	3.188	42.00	133.88
2204	Carriage of timber	cum	1.313	121.70	159.73
LABOUR:					
0112	Carpenter 2nd class	day	1.500	399.00	598.50
0114	Beldar	day	4.000	329.00	1316.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	80.730	1.78	143.70
	TOTAL				9859.31
	Add Water Charges @ 1%				98.59
	TOTAL				9957.90
	Add CPOH @ 15%				1493.68
	Cost of 90 sqm				11451.58
	Cost of 1 sqm				127.24
	Say				127.25
2.17	Close timbering in case of shafts, wells, cesspits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc. complete (Measurements to be taken of the face area timbered).				
2.17.1	Depth not exceeding 1.5 m				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a manhole 1.2mx1.0mx1.5m.</i>				
	<i>Surface area: $2 \times (1.2 + 1.0) \times 1.5 = 6.60$ sqm</i>				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Poling boards of				
1198	Second class kail wood in planks	10 cu dm	15.688	260.00	407.88
	$6.60 \times 0.038 = 0.251$ cum = 251 cu dm				
	Qty taken for cost of using once				
	after deducting for credit = $251 \times \frac{3}{4} \times \frac{3}{4} = 15.6875$ cu dm				
	Walling of				
1197	Second class kail wood in scantling	10 cu dm	5.125	260.00	133.25
	$2 \times 2 \times 1.124 \times 0.10 \times 0.10 = 0.045$ cum				
	$2 \times 2 \times 0.924 \times 0.10 \times 0.10 = 0.037$ cum.				
	Total Kail wood = 0.082 cum. = 82 cu dm				
	Qty taken for cost of using once after deducting for credit = $82 \times \frac{3}{4} \times \frac{3}{4} = 5.125$ cu dm				
0302	Safeda ballies 125 mm diameter and 1.50m long)	metre	0.412	42.00	17.30
	$2 \times 2 \times 0.924 = 3.6962$ x				
	$2 \times 0.724 = 2.896$				
	Total of balli = 6.592m				
	Qty taken for cost of using once after deducting for credit = $6.592 \times \frac{3}{4} \times \frac{3}{4} = 0.4118$ m				
	CARRIAGE:				
	Poling boards = 0.251 cum				
	Walling = 0.082 cum.				
	Balli struts $3.14/4 \times (0.125) \times 2 \times 6.59 = 0.081$ cum.				
	Total of carriage = 0.414 cum $\times \frac{3}{4} = 0.1035$ cum.				
2204	Carriage of timber	cum	0.104	121.70	12.60
	LABOUR:				
0112	Carpenter 2nd class	day	0.060	399.00	23.94
0114	Beldar	day	0.120	329.00	39.48
9999	Sundries	L.S.	2.730	1.78	4.86
	TOTAL				639.31
	Add Water Charges @ 1%				6.39
	TOTAL				645.70
	Add CPOH @ 15%				96.86
	Cost of 6.6 sqm				742.56
	Cost of 1 sqm				112.51
	Say				112.50

2.17.2 Depth exceeding 1.5 m but not exceeding 3 m					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a manhole 1.2mx1.0mx1.5m.</i> <i>Surface area: $2 \times (1.2+1.0) \times 1.5 = 6.60 \text{ sqm}$</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks $6.6 \times 0.038 = 0.251 \text{ cum} = 251 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $251 \times \frac{3}{4} \times \frac{3}{4} = 15.6875 \text{ cudm}$	10 cudm	15.688	260.00	407.88
1197	Walling of Second class kail wood in scantling $2 \times 2 \times 1.124 \times 0.10 \times 0.10 = 0.045 \text{ cum}$ $2 \times 2 \times 0.924 \times 0.10 \times 0.10 = 0.037 \text{ cum.}$ Total Kail wood = 0.082 cum. = 82 cudm Qty taken for cost of using once after deducting for credit = $82 \times \frac{3}{4} \times \frac{3}{4} = 5.125 \text{ cudm}$	10 cudm	5.125	260.00	133.25
0302	Safeda ballies 125 mm diameter and 1.5m long) $2 \times 2 \times 0.924 = 3.696$ $2 \times 2 \times 0.724 = 2.896$ Total of balli = 6.592m Qty taken for cost of using once after-deducting for credit = $6.592 \times \frac{3}{4} \times \frac{3}{4} = 0.4118 \text{ m}$ CARRIAGE: Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts $3.14/4 \times (0.125) \times 2 \times 6.59 = 0.081 \text{ cum}$ Total of carriage = 0.414 cum $\times \frac{3}{4} = 0.1035 \text{ cum}$	metre	0.412	42.00	17.30
2204	Carriage of timber LABOUR: 0112 Carpenter 2nd class 0114 Beldar 9999 Sundries	cum day day L.S.	0.104 0.120 0.250 5.460	121.70 399.00 329.00 1.78	12.60 47.88 82.25 9.72
	TOTAL				710.88
	Add Water Charges @ 1%				7.11
	TOTAL				717.99
	Add CPOH @ 15%				107.70
	Cost of 6.6 sqm				825.69
	Cost of 1 sqm				125.10
	Say				125.10

2.17.3 Depth exceeding 3 m but not exceeding 4.5 m					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a manhole 1.2mx1.0mx1.5m.</i> <i>Surface area: $2 \times (1.2+1.0) \times 1.5 = 6.60 \text{ sqm}$</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks	10 cudm	15.688	260.00	407.88

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	6.6x0.038 = 0.251 cum = 251 cudmQ ty taken for cost of using once after deducting for credit = $251 \times \frac{1}{4} \times \frac{1}{4} = 15.6875$ cudm Walling of				
1197	Second class kail wood in scantling 2x2x1.124x0.10x0.10 = 0.045 cum 2x2x0.924x0.10x0.10 = 0.037 cum. Total Kail wood = 0.082 cum. = 82 cudm Qty taken for cost of using once after deducting for credit = $82 \times \frac{1}{4} \times \frac{1}{4} = 5.125$ cudm	10 cudm	5.125	260.00	133.25
0302	Safeda ballies 125 mm diameter and 1.50m long 2x2x0.924 = 3.696 2x2x0.724 = 2.896 Total of balli = 6.592m Qty taken for cost of using once after-deducting for credit = $6.592 \times \frac{1}{4} \times \frac{1}{4} = 0.4118$ m CARRIAGE: Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts $3.14/4 \times (0.125)2 \times 6.59 = 0.081$ cum. Total of carriage = 0.414 cum $\times \frac{1}{4} = 0.1035$ cum	metre	0.412	42.00	17.30
2204	Carriage of timber LABOUR:	cum	0.104	121.70	12.60
0112	Carpenter 2nd class	day	0.190	399.00	75.81
0114	Beldar	day	0.380	329.00	125.02
9999	Sundries	L.S.	8.060	1.78	14.35
	TOTAL				786.21
	Add Water Charges @ 1%				7.86
	TOTAL				794.07
	Add CPOH @ 15%				119.11
	Cost of 6.6 sqm				913.18
	Cost of 1 sqm				138.36
	Say				138.35

2.18.1 Depth not exceeding 1.5 m

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for an area 30m long and 1.5m deep Area: $30 \times 1.5 = 45$ sqm.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks 250x38mm : $45 \times 0.038 = 1.71$ cum = 1.710 cudm Qty taken for cost of using once after educting for credit = $1710 \times \frac{1}{4} \times \frac{1}{4} = 106.875$ cudm	10 cudm	106.875	260.00	2778.75
1197	Wallings 100mmx100mm of Second class kail wood in scantling 100x100mm : $30 \times 0.10 \times 0.10 = 0.30$ cum = 300 cudm Qty taken for cost of using once after deducting for credit = $300 \times \frac{1}{4} \times \frac{1}{4} = 18.75$ cudm	10 cudm	18.750	260.00	487.50
0302	Raking struts Safeda ballies 125 mm diameter	metre	1.590	42.00	66.78

	17 x 1.50 = 25.5m				
	Qty taken for cost of using once				
	after deducting for credit = $25.5 \times \frac{1}{4} \times \frac{1}{4} = 1.59$ m				
	CARRIAGE:				
	Poling boards = 1.71 cum				
	Walling = 0.30cum				
	Rakingstruts $3.14/4 \times (0.125)^2 = 0.313$ cum				
	Total of carriage = 2.323 cum $\times \frac{1}{4} = 0.581$ cum				
2204	Carriage of timber	cum	0.581	121.70	70.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.250	399.00	99.75
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries	L.S.	31.460	1.78	56.00
	TOTAL				3723.99
	Add Water Charges @ 1%				37.24
	TOTAL				3761.23
	Add CPOH @ 15%				564.18
	Cost of 45 sqm				4325.41
	Cost of 1 sqm				96.12
	Say				96.10

2.18.2 Depth exceeding 1.5 m but not exceeding 3 m

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for an area 30m long and 1.5m deep Area: $30 \times 1.5 = 45$ sqm.</i>				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Poling boards of				
1198	Second class kail wood in planks	10 cu dm	106.875	260.00	2778.75
	$250 \times 38 \text{ mm} : 45 \times 0.038 = 1.71$ cum = 1710 cu dm				
	Qty taken for cost of using once after deducting for credit = $1710 \times \frac{1}{4} \times \frac{1}{4} = 106.875$ cu dm				
	Walling of				
1197	Second class kail wood in scantling	10 cu dm	18.750	260.00	487.50
	$100 \times 100 \text{ mm} : 30 \times 0.10 \times 0.10 = 0.30$ cum = 300 cu dm				
	Qty taken for cost of using once after deducting for credit = $300 \times \frac{1}{4} \times \frac{1}{4} = 18.75$ cu dm				
	Raking struts				
0302	Safeda ballies 125 mm diameter	metre	1.590	42.00	66.78
	$17 \times 1.5 = 25.5$ m				
	Qty taken for cost of using once after deducting for credit = $25.5 \times \frac{1}{4} \times \frac{1}{4} = 1.59$ m				
	CARRIAGE:				
	Poling boards = 1.71 cum				
	Walling = 0.30 cum				
	Rakingstruts $3.14/4 \times (0.125)^2 = 0.313$ cum				
	Total of carriage = 2.323 cum $\times \frac{1}{4} = 0.581$ cum				
2204	Carriage of timber	cum	0.581	121.70	70.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.500	399.00	199.50
0114	Beldar	day	1.000	329.00	329.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	34.060	1.78	60.63
	TOTAL				3992.87
	Add Water Charges @ 1%				39.93
	TOTAL				4032.80
	Add CPOH @ 15%				604.92
	Cost of 45 sqm				4637.72
	Cost of 1 sqm				103.06
	Say				103.05
2.18.3 Depth exceeding 3 m but not exceeding 4.5 m					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for an area 30m long and 1.5m deep</i>				
	<i>Area: 30 x 1.5 = 45 sqm.</i>				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Poling boards of				
1198	Second class kail wood in planks	10 cu dm	106.875	260.00	2778.75
	250x38mm : $45 \times 0.038 = 1.71 \text{ cum} = 1710 \text{ cu dm}$				
	Qty taken for cost of using once after deducting for credit = $1710 \times \frac{1}{4} \times \frac{1}{4} = 106.875 \text{ cu dm}$				
	Walling of				
1197	Second class kail wood in scantling	10 cu dm	18.750	260.00	487.50
	100x100mm : $30 \times 0.10 \times 0.10 = 0.30 \text{ cum} = 300 \text{ cu dm}$				
	Qty taken for cost of using once after deducting for credit = $300 \times \frac{1}{4} \times \frac{1}{4} = 18.75 \text{ cu dm}$				
	Raking struts				
0302	Safeda ballies 125 mm diameter	metre	1.590	42.00	66.78
	$17 \times 1.50 = 25.5 \text{ m}$				
	Qty taken for cost of using once after deducting for credit = $25.5 \times \frac{1}{4} \times \frac{1}{4} = 1.59 \text{ m}$				
	CARRIAGE:				
	Poling boards = 1.71 cum Walling = 0.30 cum.				
	Raking struts $3.14/4 \times (0.125)^2 = 0.313 \text{ cum}$				
	Total of carriage = $2.323 \text{ cum} \times \frac{1}{4} = 0.581 \text{ cum}$				
2204	Carriage of timber	cum	0.581	121.70	70.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.750	399.00	299.25
0114	Beldar	day	1.500	329.00	493.50
9999	Sundries	L.S.	47.580	1.78	84.69
	TOTAL				4281.18
	Add Water Charges @ 1%				42.81
	TOTAL				4323.99
	Add CPOH @ 15%				648.60
	Cost of 45 sqm				4972.59
	Cost of 1 sqm				110.50
	Say				110.50

2.19 Extra for planking, strutting and packing materials for cavities (in close timbering) if required to be left permanently in position (Face area of timber permanently left to be measured).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a trench 30m long and 1.5m deep Area: 2 x 30 x 1.5 = 90 sqm.</i>				
	MATERIAL:				
	Poling boards of				
1198	Second class kail wood in planks 90x0.038 = 3.42 cum = 3420 cudm Less @ 1/8 of Qty as timber is supposed to be used once before = 3420 - 427.5 = 2992.5 cudm	10 cudm	2992.500	260.00	77805.00
	Walings 100mmx100mm of				
1197	Second class kail wood in scantling 4x30x0.10x0.10 = 1.20cum = 1200 cudm Less @ 1/8 of Qty as timber is supposed to be used once before = 1200 - 150 = 1050 cudm	10 cudm	1050.000	260.00	27300.00
	Struts of				
0302	Safeda ballies 125 mm diameter and 1.5m long 2x17x1.5 = 51m Less @ 1/8 of Qty as timber is supposed to be used once before = 51 - 6.37 = 44.63 m	metre	44.630	42.00	1874.46
2204	Carriage of timber Poling boards = 3.42 cum Walling =1.20 cum. Balli struts: $3.14/4 \times (0.125)^2 \times 51 = 0.63$ cum = 5.25 cum Taking half = 5.25 x 14 = 2.675 cum	cum	2.675	121.70	325.55
	TOTAL				107305.01
	Add Water Charges @ 1%				1073.05
	TOTAL				108378.06
	Add CPOH @ 15%				16256.71
	Cost of 90 sqm				124634.77
	Cost of 1 sqm				1384.83
	Say				1384.85
2.20 Open timbering in trenches including strutting and shoring complete (measurements to be taken of the face area timbered):					
2.20.1 Depth not exceeding 1.5 m					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a trench 30m long and 1.5m deep Area: 2 x 30 x 1.5 = 90 sqm.</i>				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Poling board of				
1198	Second class kail wood in planks 1.5mx0.25x0.038m 2x40x1.5x0.25x0.038= 1.14 cum =1140 cudm Qty taken for cost of using once after deducting for credit = $1140 \times \frac{1}{4} \times \frac{1}{4} = 71.25$ cudm	10 cudm	71.250	260.00	1852.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1197	Second class kail wood in scantling Walling 100mmx100mm : 4x30mx0.1mx0.1m =1.20cum= 1200 cudm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75$ cudm Struts of	10 cudm	75.000	260.00	1950.00
0302	Safeda ballies 125 mm diameter and 1.5m long)-2x17x1.50 = 51m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.18$ m CARRIAGE: Poling boards =1.14 cum Walling = 1.20 cum Ballies struts- $3.14/4 \times (0.125)^2 = 0.63$ cum Total of carriage = 2.97 cum $\times \frac{1}{4} = 0.74$ cum	metre	3.180	42.00	133.56
2204	Carriage of timber LABOUR:	cum	0.740	121.70	90.06
0112	Carpenter 2nd class	day	0.250	399.00	99.75
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				4325.54
	Add Water Charges @ 1%				43.26
	TOTAL				4368.80
	Add CPOH @ 15%				655.32
	Cost of 90 sqm				5024.12
	Cost of 1 sqm				55.82
	Say				55.80

2.20.2 Depth exceeding 1.5 m but not exceeding 3 m

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a trench 30m long and 1.5m deep</i> <i>Area: $2 \times 30 \times 1.5 = 90$ sqm.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit given @ 75% of cost Poling boards of				
1198	Second class kail wood in planks 1.50mx0.25x0.038m $2 \times 40 \times 1.5 \times 0.25 \times 0.038 = 1.14$ cum =1140 cudm Qty taken for cost of using once after deducting for credit = $1140 \times \frac{1}{4} \times \frac{1}{4} = 71.25$ cudm Wallings of	10 cudm	71.250	260.00	1852.50
1197	Second class kail wood in scantling 100mmx 100mm: 4x30mx0.1mx0.1m = 1.20cum= 1200 cudm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75$ cudm Struts of	10 cudm	75.000	260.00	1950.00

0302	Safeda ballies 125 mm diameter and 1.5m long 2x17x1.5 = 51m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.18$ m CARRIAGE: Poling boards = 1.14 cum Walling = 1.20 cum Ballies struts $3.14/4 \times (0.125)^2 = 0.63$ cum Total of carriage = 2.97 cum $\times \frac{1}{4} = 0.74$ cum	metre	3.180	42.00	133.56
2204	Carriage of timber LABOUR:	cum	0.740	121.70	90.06
0112	Carpenter 2nd class	day	0.500	399.00	199.50
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries	L.S.	33.150	1.78	59.01
TOTAL					4613.63
Add Water Charges @ 1%					46.14
TOTAL					4659.77
Add CPOH @ 15%					698.97
Cost of 90 sqm					5358.74
Cost of 1 sqm					59.54
Say					59.55

2.20.3 Depth exceeding 3 m but not exceeding 4.5 m

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for a trench 30m long and 1.5m deep</i> <i>Area: $2 \times 30 \times 1.5 = 90$ sqm.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost					
1198	Poling boards of Second class kail wood in planks 1.50mx0.25x0.038m: $2 \times 40 \times 1.5 \times 0.25 \times 0.038 = 1.14$ cum = 1140 cudm Qty taken for cost of using once after deducting for credit = $1140 \times \frac{1}{4} \times \frac{1}{4} = 71.25$ cudm	10 cudm	71.250	260.00	1852.50
1197	Wallings of Second class kail wood in scantling 100mmx100mm : $4 \times 30 \times 0.1 \times 0.1 \text{m} = 1.20$ cum = 1200 cudm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75$ cudm	10 cudm	75.000	260.00	1950.00
0302	Struts of Safeda ballies 125 mm diameter and 1.5m long)-2x17x1.5 = 51m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.18$ m CARRIAGE: Poling boards = 1.14 cum Walling = 1.20 cum Ballies struts $3.14/4 \times (0.125)^2 = 0.63$ cum Total of carriage = 2.97 cum $\times \frac{1}{4} = 0.74$ cum	metre	3.180	42.00	133.56

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2204	Carriage of timber	cum	0.740	121.70	90.06
	LABOUR:				
0112	Carpenter 2nd class	day	1.000	399.00	399.00
0114	Beldar	day	1.750	329.00	575.75
9999	Sundries	L.S.	46.670	1.78	83.07
	TOTAL				5083.94
	Add Water Charges @ 1%				50.84
	TOTAL				5134.78
	Add CPOH @ 15%				770.22
	Cost of 90 sqm				5905.00
	Cost of 1 sqm				65.61
	Say				65.60
2.21	Open timbering in case of shafts, wells, cesspits, manholes and the like including strutting and shoring complete (Measurements to be taken of the face area timbered):				
2.21.1	Depth not exceeding 1.5 m				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a manhole 1.2mx1.0mx1.5m.</i>				
	<i>Surface area: $2 \times (1.2 + 1.0) \times 1.5 = 6.60$ sqm</i>				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
	Polling boards of				
1198	Second class kail wood in planks	10 cudm	5.375	260.00	139.75
	250mm wide and 38mm thick				
	$6 \times 0.25 \times 1.5 \times 0.038 = 0.086$ cum = 86cudm				
	Qty taken for cost of using once				
	after deducting for credit = $86 \times \frac{1}{4} \times \frac{1}{4} = 5.3755$ cudm				
	Walling				
	100mmx100mm of				
1197	Second class kail wood in scantling	10 cudm	3.000	260.00	78.00
	$4 \times 1.2 \times 0.1 \times 0.1 = 0.048$ cum = 48 cudm				
	Qty taken for cost of using once				
	after deducting for credit = $48 \times \frac{1}{4} \times \frac{1}{4} = 3$ cudm				
	Struts of				
0302	Safeda ballies 125 mm diameter	metre	0.400	42.00	16.80
	$(4 \times 1.0 = 4.0) + (2 \times 1.2 = 2.4) = 6.4$ m				
	Qty taken for cost of using once				
	after deducting for credit = $6.4 \times \frac{1}{4} \times \frac{1}{4} = 0.40$ m				
	CARRIAGE:				
	Poling boards = 0.086 cum				
	Walling = 0.048 cum				
	Bailies struts $3.14/4 \times (0.125)^2 \times 6.4 = 0.079$ cum				
	Total of carriage = 0.213 cum $\times \frac{1}{4} = 0.053$ cum				
2204	Carriage of timber	cum	0.053	121.70	6.45
	LABOUR:				
0112	Carpenter 2nd class	day	0.030	399.00	11.97
0114	Beldar	day	0.060	329.00	19.74
9999	Sundries	L.S.	1.820	1.78	3.24
	TOTAL				275.95
	Add Water Charges @ 1%				2.76
	TOTAL				278.71
	Add CPOH @ 15%				41.81
	Cost of 6.6 sqm				320.52
	Cost of 1 sqm				48.56
	Say				48.55

2.21.2 Depth exceeding 1.5 m but not exceeding 3 m					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a manhole 1.2mx1.0mx1.5m.</i> <i>Surface area: $2 \times (1.2+1.0) \times 1.5 = 6.60 \text{ sqm}$</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Polling boards of				
1198	Second class kail wood in planks 250mm wide and 38mm thick : $6 \times 0.25 \times 1.5 \times 0.038 = 0.086 \text{ cum} = 86 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $86 \times \frac{1}{4} \times \frac{1}{4} = 5.3755 \text{ cudm}$	10 cudm	5.375	260.00	139.75
1197	Walling 100mmx100mm of Second class kail wood in scantling $4 \times 1.2 \times 0.1 \times 0.1 = 0.048 \text{ cum} = 48 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $48 \times \frac{1}{4} \times \frac{1}{4} = 3 \text{ cudm}$	10 cudm	3.000	260.00	78.00
0302	Struts of Safeda ballies 125 mm diameter $(4 \times 1.0 = 4.0) + (2 \times 1.2 = 2.4) = 6.4 \text{ m}$ Qty taken for cost of using once after deducting for credit = $6.4 \times \frac{1}{4} \times \frac{1}{4} = 0.40 \text{ m}$	metre	0.400	42.00	16.80
	CARRIAGE: Poling boards = 0.086 cum Walling = 0.048 cum Bailies struts $3.14/4 \times (0.125)^2 \times 6.4 = 0.079 \text{ cum}$ Total of carriage = $0.213 \text{ cum} \times \frac{1}{4} = 0.053 \text{ cum}$				
2204	Carriage of timber	cum	0.053	121.70	6.45
	LABOUR:				
0112	Carpenter 2nd class	day	0.060	399.00	23.94
0114	Beldar	day	0.120	329.00	39.48
9999	Sundries	L.S.	2.730	1.78	4.86
	TOTAL				309.28
	Add Water Charges @ 1%				3.09
	TOTAL				312.37
	Add CPOH @ 15%				46.86
	Cost of 6.6 sqm				359.23
	Cost of 1 sqm				54.43
	Say				54.45

2.21.3 Depth exceeding 3 m but not exceeding 4.5 m					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a manhole 1.2mx1.0mx1.5m.</i> <i>Surface area: $2 \times (1.2+1.0) \times 1.5 = 6.60 \text{ sqm}$</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Polling boards of				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	Second class kail wood in planks 250mm wide and 38mm thick : $6 \times 0.25 \times 1.5 \times 0.038 = 0.086$ cum = 86 cum Qty taken for cost of using once after deducting for credit = $86 \times \frac{1}{4} \times \frac{1}{4} = 5.3755$ cum	10 cum	5.375	260.00	139.75
1197	Walling 100mm x 100mm of Second class kail wood in scantling $4 \times 1.2 \times 0.10 \times 0.10 = 0.048$ cum = 48 cum Qty taken for cost of using once after deducting for credit = $48 \times \frac{1}{4} \times \frac{1}{4} = 3$ cum	10 cum	3.000	260.00	78.00
0302	Struts of Safeda ballies 125 mm diameter $(4 \times 1.0 = 4.0) + (2 \times 1.2 = 2.4) = 6.4$ m Qty taken for cost of using once after deducting for credit = $6.4 \times \frac{1}{4} \times \frac{1}{4} = 0.4$ m CARRIAGE: Poling boards = 0.086 cum Walling = 0.048 cum Ballies struts $3.14/4 \times (0.125)^2 \times 6.4 = 0.079$ cum Total of carriage = 0.213 cum $\times \frac{1}{4} = 0.053$ cum	metre	0.400	42.00	16.80
2204	Carriage of timber LABOUR:	cum	0.053	121.70	6.45
0112	Carpenter 2nd class	day	0.100	399.00	39.90
0114	Beldar	day	0.200	329.00	65.80
9999	Sundries	L.S.	3.640	1.78	6.48
	TOTAL				353.18
	Add Water Charges @ 1%				3.53
	TOTAL				356.71
	Add CPOH @ 15%				53.51
	Cost of 6.6 sqm				410.22
	Cost of 1 sqm				62.15
	Say				62.15

2.22 Open timbering over areas including strutting, shoring etc. complete (Measurements to be taken of the face area timbered) :

2.22.1 Depth not exceeding 1.5 m

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for an area 30m long and 1.5m deep</i> <i>Area: $30 \times 1.5 = 45$ sqm.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Polling boards of				
1198	Second class kail wood in planks 250mm x 38mm $40 \times 1.5 \times 0.25 \times 0.038 = 0.57$ cum. = 570 cum Qty taken for cost of using once after deducting for credit = $570 \times \frac{1}{4} \times \frac{1}{4} = 35.625$ cum	10 cum	35.625	260.00	926.25
0302	Raking struts- Safeda ballies 125 mm diameter $40 \times 1.50 = 60$ m Qty taken for cost of using once after deducting for credit = $60 \times \frac{1}{4} \times \frac{1}{4} = 3.75$ m	metre	3.750	42.00	157.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	CARRIAGE: Poling boards = 0.57 cum Bailies 40x1.5x3.14/4x(0.125)2=0.40 cum. Total for carriage =1.31 cum x¼ = 0.3275 cum				
2204	Carriage of timber	cum	0.328	121.70	39.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.120	399.00	47.88
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				1288.91
	Add Water Charges @ 1%				12.89
	TOTAL				1301.80
	Add CPOH @ 15%				195.27
	Cost of 45 sqm				1497.07
	Cost of 1 sqm				33.27
	Say				33.25

2.22.2 Depth exceeding 1.5 m but not exceeding 3 m

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for an area 30m long and 1.5m deep</i> <i>Area: 30 x 1.5 = 45 sqm.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Polling boards of Second class kail wood in planks 250mm x 38mm 40x1.5x0.25x0.038 = 0.57cum. = 570 cudm Qty taken for cost of using once after deducting for credit = 570x¼x¼ = 35.625 cudm	10 cudm	35.625	260.00	926.25
0302	Raking struts- Safeda ballies 125 mm diameter 40x1.5 = 60m Qty taken for cost of using once after deducting for credit = 60x¼x¼ = 3.75 m	metre	3.750	42.00	157.50
	CARRIAGE: Poling boards = 0.57 cum Bailies 40x1.5x3.14/4x(0.125) 2= 0.40 cum. Total for carriage =1.31 cum x¼ = 0.3275 cum				
2204	Carriage of timber	cum	0.328	121.70	39.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.250	399.00	99.75
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries	L.S.	33.150	1.78	59.01
	TOTAL				1446.87
	Add Water Charges @ 1%				14.47
	TOTAL				1461.34
	Add CPOH @ 15%				219.20
	Cost of 45 sqm				1680.54
	Cost of 1 sqm				37.35
	Say				37.35

2.22.3 Depth exceeding 3 m but not exceeding 4.5 m					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for an area 30m long and 1.5m deep</i> <i>Area: 30 x 1.5 = 45 sqm.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of Second class kail wood in planks 250mm x 38mm $40 \times 1.5 \times 0.25 \times 0.038 = 0.57 \text{ cum} = 570 \text{ cu dm}$ Qty taken for cost of using once after deducting for credit = $570 \times \frac{3}{4} \times \frac{3}{4} = 35.625 \text{ cu dm}$ Raking struts- Safeda ballies 125 mm diameter $40 \times 1.50 = 60 \text{ m}$ Qty taken for cost of using once after deducting for credit = $60 \times \frac{3}{4} \times \frac{3}{4} = 3.75 \text{ m}$ Carriage of timber Poling boards = 0.57 cum Ballies $40 \times 1.5 \times 3.14 / 4 \times (0.125)^2 = 0.40 \text{ cum}$. Total for carriage = $131 \text{ cum} \times \frac{3}{4} = 0.3275 \text{ cum}$ LABOUR: Carpenter 2nd class Beldar Sundries				
1198	Second class kail wood in planks 250mm x 38mm $40 \times 1.5 \times 0.25 \times 0.038 = 0.57 \text{ cum} = 570 \text{ cu dm}$ Qty taken for cost of using once after deducting for credit = $570 \times \frac{3}{4} \times \frac{3}{4} = 35.625 \text{ cu dm}$	10 cu dm	35.625	260.00	926.25
0302	Raking struts- Safeda ballies 125 mm diameter $40 \times 1.50 = 60 \text{ m}$ Qty taken for cost of using once after deducting for credit = $60 \times \frac{3}{4} \times \frac{3}{4} = 3.75 \text{ m}$	metre	3.750	42.00	157.50
2204	Carriage of timber Poling boards = 0.57 cum Ballies $40 \times 1.5 \times 3.14 / 4 \times (0.125)^2 = 0.40 \text{ cum}$. Total for carriage = $131 \text{ cum} \times \frac{3}{4} = 0.3275 \text{ cum}$	cum	0.328	121.70	39.86
0112	Carpenter 2nd class	day	0.500	399.00	199.50
0114	Beldar	day	0.880	329.00	289.52
9999	Sundries	L.S.	47.580	1.78	84.69
	TOTAL				1697.32
	Add Water Charges @ 1%				16.97
	TOTAL				1714.29
	Add CPOH @ 15%				257.14
	Cost of 45 sqm				1971.43
	Cost of 1 sqm				43.81
	Say				43.80
2.23 Extra for planking and strutting in open timbering if required to be left permanently in position (Face area of the timber permanently left to be measured).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a trench 30m long and 1.5m deep</i> <i>Area: 2 x 30 x 1.5 = 90 sqm.</i> MATERIAL: Poling boards of Second class kail wood in planks $1.50 \text{ m} \times 0.25 \times 0.038$ $2 \times 40 \times 1.5 \times 0.25 \times 0.038 = 1.14 \text{ cum} = 1140 \text{ cu dm}$ Less @ 1/8 of Qty as timber is supposed to be used once before = $1140 - 142.50 = 997.50 \text{ cu dm}$ Walling 100mm x 100mm of Second class kail wood in scantling $4 \times 30 \text{ m} \times 0.10 \text{ m} = 1.20 \text{ cum} = 1200 \text{ cu dm}$ Less @ 1/8 of Qty as timber is supposed to be used once before = $1200 - 150 = 1050 \text{ cu dm}$ Struts of Safeda ballies 125 mm diameter and 1.5m long) - $2 \times 17 \times 1.5 = 51 \text{ m}$ Less @ 1/8 of Qty as timber is supposed to be used once before = $51 - 6.37 = 44.63 \text{ m}$				
1198	Second class kail wood in planks $1.50 \text{ m} \times 0.25 \times 0.038$ $2 \times 40 \times 1.5 \times 0.25 \times 0.038 = 1.14 \text{ cum} = 1140 \text{ cu dm}$ Less @ 1/8 of Qty as timber is supposed to be used once before = $1140 - 142.50 = 997.50 \text{ cu dm}$	10 cu dm	997.500	260.00	25935.00
1197	Walling 100mm x 100mm of Second class kail wood in scantling $4 \times 30 \text{ m} \times 0.10 \text{ m} = 1.20 \text{ cum} = 1200 \text{ cu dm}$ Less @ 1/8 of Qty as timber is supposed to be used once before = $1200 - 150 = 1050 \text{ cu dm}$	10 cu dm	1050.000	260.00	27300.00
0302	Struts of Safeda ballies 125 mm diameter and 1.5m long) - $2 \times 17 \times 1.5 = 51 \text{ m}$ Less @ 1/8 of Qty as timber is supposed to be used once before = $51 - 6.37 = 44.63 \text{ m}$	metre	44.630	42.00	1874.46

2204	Carriage of timber	cum	1.485	121.70	180.72
	Poling boards =1.14 cum				
	Walling = 1.20 cum				
	Bailies struts $51 \times 3.14 \times \frac{1}{4} \times (0.125)^2 = 0.63$ cum				
	Total of carriage = 2.97 cum				
	Taking half = $2.97 \times \frac{1}{2} = 1.485$ cum				
	TOTAL				55290.18
	Add Water Charges @ 1%				552.90
	TOTAL				55843.08
	Add CPOH @ 15%				8376.46
	Cost of 90 sqm				64219.54
	Cost of 1 sqm				713.55
	Say				713.55

2.24 Extra rates for quantities of works, executed:

2.24.1 In or under water and/or liquid mud, including pumping out water as required

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for</i>				
	Extra due to slow progress and dewatering: 20% of the rate of the item				
	1 X 20 = 1 X 20	20.00			
	(20% of the rate of the item. The extra percentage in rate is applicable in respect of each item but ltd. To quantities of work excuted in difficult condition.)				
	Note for item no. 2.24:- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level up to the centre of gravity of the qty executed in difficult condition. The depth shall be reckoned correct to 0.10m, 0.05m or more shall be taken as 0.10m and less than 0.05m ignored.				
	Cost of 1 metre depth				20.00
	Say				20.00

2.24.2 In or under foul position, including pumping out water as required

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for</i>				
	Extra due to slow progress and dewatering: 25% of the rate of the item				
	1 X 25 = 1 X 25	25.00			
	(25% of the rate of the item. This pertains to only such. Pumping of water as is envisaged at the time of tendering and don't include those that covered under contrac-tual risk)				
	Note for item no. 2.24:- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level up to the centre of gravity of the qty executed in difficult condition. The depth shall be reckoned correct to 0.10 m, 0.05 m or more shall be taken as 0.10 m and less than 0.05 m ignored.				
	Cost of 1 metre depth				25.00
	Say				25.00

2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	LABOUR:				
0128	Mate	day	0.200	363.00	72.60
0115	Coolie	day	2.500	329.00	822.50
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				967.70
	Add Water Charges @ 1%				9.68
	TOTAL				977.38
	Add CPOH @ 15%				146.61
	Cost of 10 cum				1123.99
	Cost of 1 cum				112.40
	Say				112.40

2.26 Extra for every additional lift of 1.5 m or part there of in excavation / banking excavated or stacked materials.

2.26.1 All kinds of soil

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	LABOUR:				
0128	Mate	day	0.100	363.00	36.30
0114	Beldar	day	1.100	329.00	361.90
	TOTAL				398.20
	Add Water Charges @ 1%				3.98
	TOTAL				402.18
	Add CPOH @ 15%				60.33
	Cost of 10 cum				462.51
	Cost of 1 cum				46.25
	Say				46.25

2.26 Extra for every additional lift of 1.5 m or part there of in excavation / banking excavated or stacked materials.

2.26.2 Ordinary or hard rock

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	LABOUR:				
0128	Mate	day	0.200	363.00	72.60
0114	Beldar	day	1.950	329.00	641.55
	TOTAL				714.15
	Add Water Charges @ 1%				7.14
	TOTAL				721.29
	Add CPOH @ 15%				108.19
	Cost of 10 cum				829.48
	Cost of 1 cum				82.95
	Say				82.95

2.27	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming consolidating and dressing complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	MATERIAL:				
6501	Sand zone V (Jamuna)	cum	10.000	600.00	6000.00
2335	Carriage of Jamuna sand	cum	10.000	106.49	1064.90
	LABOUR:				
0114	Beldar	day	0.890	329.00	292.81
0115	Coolie	day	1.070	329.00	352.03
0101	Bhisti	day	0.350	363.00	127.05
	TOTAL				7836.79
	Add Water Charges @ 1%				78.37
	TOTAL				7915.16
	Add CPOH @ 15%				1187.27
	Cost of 10 cum				9102.43
	Cost of 1 cum				910.24
	Say				910.25
2.28	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
2.28.1	All kinds of soil				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	LABOUR:				
0114	Beldar	day	1.970	329.00	648.13
0115	Coolie	day	1.290	329.00	424.41
	TOTAL				1072.54
	Add Water Charges @ 1%				10.73
	TOTAL				1083.27
	Add CPOH @ 15%				162.49
	Cost of 100 sqm				1245.76
	Say				1245.75
2.29	Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same.				
2.29.1	All kinds of soil				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	LABOUR:				
0114	Beldar	day	2.750	329.00	904.75
0101	Bhisti	day	0.500	363.00	181.50
	TOTAL				1086.25
	Add Water Charges @ 1%				10.86
	TOTAL				1097.11
	Add CPOH @ 15%				164.57
	Cost of 100 sqm				1261.68
	Say				1261.70

2.30	Excavating holes more than 0.10 cum & upto 0.50 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil; as directed within a lead of 50 m and lift up to 1.5 m.				
2.30.1	All kinds of soil				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes</i>				
2.8.1	Earth work 10 x 0.30 (avg) = 3.0 cum	cum	3.000	157.50	472.50A
	Rate as per Item Number 2.8.1 of SH: Earth work				
	Extra labour for filling and ramming				
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				496.57
	Add Water Charges @ 1% except on A i.e on (496.57 - 472.50 =) 24.07				0.24
	TOTAL				496.81
	Add CPOH @ 15% except on A i.e on (496.81 - 472.50 =) 24.31				3.65
	Cost of 10 holes				500.46
	Cost of each				50.05
	Say				50.05
2.30.2	Ordinary rock				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes</i>				
2.9.1	Earth work 10 x 0.3 (avg) = 3.0 cum	cum	3.000	263.50	790.50A
	Rate as per Item Number 2.9.1 of SH: Earth work				
	Extra labour for filling and ramming				
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				814.57
	Add Water Charges @ 1% except on A i.e on (814.57 - 790.50 =) 24.07				0.24
	TOTAL				814.81
	Add CPOH @ 15% except on A i.e on (814.81 - 790.50 =) 24.31				3.65
	Cost of 10 holes				818.46
	Cost of each				81.85
	Say				81.85
2.30.3	Hard rock (requiring blasting)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes</i>				
2.9.2	Earth work 10 x 0.3 (avg) = 3.0 cum	cum	3.000	454.35	1363.05A
	Rate as per Item Number 2.9.2 of SH: Earth work				
	Extra labour for filling and ramming				
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				1387.12
	Add Water Charges @ 1% except on A i.e on (1,387.12 - 1,363.05 =) 24.07				0.24
	TOTAL				1387.36
	Add CPOH @ 15% except on A i.e on (1,387.36 - 1,363.05 =) 24.31				3.65
	Cost of 10 holes				1391.01
	Cost of each				139.10
	Say				139.10

2.30.4 Hard rock (blasting prohibited)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes</i>				
	Earth work 10 x 0.3 (avg) = 3.0 cum				
2.9.3	Rate as per Item Number 2.9.3 of SH: Earth work	cum	3.000	620.55	1861.65A
	Extra labour for filling and ramming				
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				1885.72
	Add Water Charges @ 1% except on A i.e on (1,885.72 - 1,861.65 =) 24.07				0.24
	TOTAL				1885.96
	Add CPOH @ 15% except on A i.e on (1,885.96 - 1,861.65 =) 24.31				3.65
	Cost of 10 holes				1889.61
	Cost of each				188.96
	Say				188.95
2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	LABOUR:				
0114	Beldar	day	1.080	329.00	355.32
0115	Coolie	day	0.600	329.00	197.40
	TOTAL				552.72
	Add Water Charges @ 1%				5.53
	TOTAL				558.25
	Add CPOH @ 15%				83.74
	Cost of 100 sqm				641.99
	Say				642.00
2.32 Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	LABOUR:				
0114	Beldar	day	0.600	329.00	197.40
0115	Coolie	day	0.250	329.00	82.25
9999	Sundries	L.S.	1.820	1.78	3.24
	TOTAL				282.89
	Add Water Charges @ 1%				2.83
	TOTAL				285.72
	Add CPOH @ 15%				42.86
	Cost of 100 sqm				328.58
	Say				328.60

2.33	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.				
2.33.1	Beyond 30 cm girth up to and including 60 cm girth				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one tree of 15cm dia and average height 3m</i>				
	LABOUR:				
	quantity of wood- $3.14/4 \times 0.15 \times 0.15 \times 3 = 0.053$ cum. Add				
	20% for branches = 0.011 cum. Total = 0.064 cum.				
	Labour for cutting in trees removing the roots from the				
	soil and then filling in Pit and depresions.				
0114	Beldar	day	0.330	329.00	108.57
0115	Coolie	day	0.170	329.00	55.93
9999	Sundries	L.S.	2.730	1.78	4.86
	TOTAL				169.36
	Add Water Charges @ 1%				1.69
	TOTAL				171.05
	Add CPOH @ 15%				25.66
	Cost of each				196.71
	Say				196.70
2.33.2	Beyond 60 cm girth up to and including 120 cm girth				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a tree of average girth 90cm, average dia. 0.3m and length 5m</i>				
	LABOUR:				
	quantity of wood- $(22 \times 0.3 \times 0.3 \times 5)/7 \times 4 = 0.35$ cum 20%				
	branches = 0.07 cumTotal = 0.42 cumLabour for cutting				
	the trees and removing in roots from the soil filling in				
	pit and the depresions				
0114	Beldar	day	1.500	329.00	493.50
0115	Coolie	day	0.750	329.00	246.75
9999	Sundries	L.S.	5.460	1.78	9.72
	TOTAL				749.97
	Add Water Charges @ 1%				7.50
	TOTAL				757.47
	Add CPOH @ 15%				113.62
	Cost of each				871.09
	Say				871.10
2.33.3	Beyond 120 cm girth up to and including 240 cm girth				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a tree of average girth 180cm, average dia. 0.6m and length 7m</i>				
	LABOUR:				
	quantity of wood- $(22 \times 0.6 \times 0.6 \times 7)/7 \times 4 = 1.98$ cum + 20%				
	branches = 0.40 cumTotal = 2.38 cumLabour for cutting				
	the trees and removing in roots from the soil filling in pit				
	and the depresions				
0114	Beldar	day	7.000	329.00	2303.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	3.500	329.00	1151.50
9999	Sundries	L.S.	8.060	1.78	14.35
	TOTAL				3468.85
	Add Water Charges @ 1%				34.69
	TOTAL				3503.54
	Add CPOH @ 15%				525.53
	Cost of each				4029.07
	Say				4029.05

2.33.4 Above 240 cm girth

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a tree of average girth 300cm, average dia. 1m and length 10m</i>				
	LABOUR:				
	quantity of wood-(22 x 1 x 1 x 10)/7x4 = 7.86 cum 20%				
	branches = 1.57 cumTotal = 9.43 cumLabour for cutting the trees and removing in roots from the soil filling in pit and the depresions				
0114	Beldar	day	14.000	329.00	4606.00
0115	Coolie	day	7.000	329.00	2303.00
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				6956.90
	Add Water Charges @ 1%				69.57
	TOTAL				7026.47
	Add CPOH @ 15%				1053.97
	Cost of each				8080.44
	Say				8080.45

2.34 Supplying chemical emulsion in sealed containers including delivery as specified.

2.34.1 Chlorpyriphos / Lindane emulsifiable concentrate of 20%

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 litres</i>				
7022	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	100.000	160.00	16000.00
2342	Carriage of Solvent / Diesel.	quintal	1.000	10.65	10.65
	TOTAL				16010.65
	Add Water Charges @ 1%				160.11
	TOTAL				16170.76
	Add CPOH @ 15%				2425.61
	Cost of 100 litre				18596.37
	Cost of 1 litre				185.96
	Say				185.95

2.35 Diluting and injecting chemical emulsion for POST- CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :

2.35.1 Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:

2.35.1.1 With Chlorpyriphos / Lindane E.C. 20% with 1 % concentration

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metres</i>				
	MATERIAL:				
	Chlorpyriphos 1% concentration = $10.0 \times 0.30 \times 7.5 = 22.5$				
	litres Chlorpyriphos 20% required = $22.5/20 = 1.125$ litres				
	Chlorpyriphos 20% E.C. / Lindane 20% E.C. 1.125 litres				
	(to be supplied free of cost)				
	LABOUR:				
0114	Beldar	day	0.330	329.00	108.57
	(for excavating channel) rodding in chemical spraying				
	the emulsion and refilling the same				
9999	Sundries and rent of sprayer etc.	L.S.	13.520	1.78	24.07
	TOTAL				132.64
	Add Water Charges @ 1%				1.33
	TOTAL				133.97
	Add CPOH @ 15%				20.10
	Cost of 10 metres				154.07
	Cost of 1 metre				15.41
	Say				15.40

2.35.2 Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.:

2.35.2.1 With Chlorpyriphos Lindane E.C. 20% with 1% concentration

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metres</i>				
	MATERIAL:				
	Chlorpyriphos 1% concentration = $10.0 \times 2.25 = 22.5$ litres				
	Chlorpyriphos 20% required = $22.5/20 = 1.125$ litres				
	Chlorpyriphos 20% E.C. / Lindane 20% E.C. 1.125 litres				
	(to be supplied free of cost)				
	LABOUR:				
0114	Beldar	day	0.400	329.00	131.60
	(for drilling holes and injecting chemical)				
9999	Sundries and rent of a sprayer and mortar and making				
	good the holes	L.S.	35.880	1.78	63.87
	TOTAL				195.47
	Add Water Charges @ 1%				1.95
	TOTAL				197.42
	Add CPOH @ 15%				29.61
	Cost of 10 metres				227.03
	Cost of 1 metre				22.70
	Say				22.70

2.35.3 Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor:

2.35.3.1 With Chlorpyrifos/Lindane E.C. 20% with 1 % concentration

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9 sqm (3 metre x 3 metre) No. of holes - 100 nos.</i>				
	MATERIAL:				
	Chlorpyrifos 1% required 100x1 litre = 100 litres				
	Chlorpyrifos 20% E.C. = 100/20 = 5.0 litres				
	Chlorpyrifos 20% E.C. / Lindane 20% E.C. 5 litres				
	(to be supplied free of cost)				
	LABOUR:				
0114	Beldar	day	2.000	329.00	658.00
	(For making holes & spraying)				
0124	Mason (brick layer) 2nd class	day	0.500	399.00	199.50
9999	Sundries, rent of sprayer and mortar.	L.S.	35.880	1.78	63.87
	TOTAL				921.37
	Add Water Charges @ 1%				9.21
	TOTAL				930.58
	Add CPOH @ 15%				139.59
	Cost of 9 sqm				1070.17
	Cost of 1 sqm				118.91
	Say				118.90

2.35.4 Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole :

2.35.4.1 With Chlorpyrifos/Lindane E.C. 20% with 1% concentration

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metres</i>				
	MATERIAL:				
	No. of holes $10.0/0.30 = 33.33+1 = 34.33$ holes Say				
	34 holes chlorpyrifos 1% concentration required=				
	$34 \times 1.0 = 34.00$ litres Chlorpyrifos 20% E.C. required				
	$34.00/20 = 1.70$ litres				
	Chlorpyrifos 20% E.C. / Lindane 20% E.C. 1.7 litres				
	(to be supplied free of cost)				
	LABOUR:				
0114	Beldar	day	0.300	329.00	98.70
	(for making holes at 45 deg and spraying the emulsion)				
0124	Mason (brick layer) 2nd class	day	0.050	399.00	19.95
9999	Sundries, rent of pump etc.	L.S.	17.940	1.78	31.93
	TOTAL				150.58
	Add Water Charges @ 1%				1.51
	TOTAL				152.09
	Add CPOH @ 15%				22.81
	Cost of 10 metre				174.90
	Cost of 1 metre				17.49
	Say				17.50

2.35.5 Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos / Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metres</i>				
	MATERIAL:				
	No. of holes $10.0/0.15 = 66.67+1 = 67.67$ holes Say 68 holes				
	Chlordane 1% concentration required = $68 \times 0.5 = 34.00$ litres				
	Chlordane 20% E.C. required $34.00/20 = 1.70$ litres				
	Chlordane 20% E.C. / Lindane 20% E.C. 1.7 litres (to be supplied free of cost)				
	Kerosene oil = $34-1.7 = 32.30$ litres				
0771	Kerosene oil	litre	32.300	48.00	1550.40
0112	Carpenter 2nd class (For making holes and plugging the same)	day	0.200	399.00	79.80
0114	Beldar for injecting chemical	day	0.200	329.00	65.80
9999	Sundries	L.S.	17.940	1.78	31.93
	TOTAL				1727.93
	Add Water Charges @ 1%				17.28
	TOTAL				1745.21
	Add CPOH @ 15%				261.78
	Cost of 10 metre				2006.99
	Cost of 1 metre				200.70
	Say				200.70

2.36 Deduct for disposed soil not levelled and neatly dressed.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	LABOUR:				
0128	Mate	day	0.080	363.00	29.04
	Beldar /				
0115	Coolie	day	0.800	329.00	263.20
	TOTAL				292.24
	Add Water Charges @ 1%				2.92
	TOTAL				295.16
	Add CPOH @ 15%				44.27
	Cost of 10 cum				339.43
	Cost of 1 cum				33.94
	Say				33.95

2.37	Supply and stacking of Fly ash conforming to IRC- 58 at site, including carriage, loading , unloading & stacking up to any lead (measured stacks will be reduced by 20% for payment).				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
	Ref :- Based on DAR Item No : 1.1.1 A) ii)				
	Material and carriage				
1980	Fly ash (Available free of cost at thermal power plant at Baderpur power plant. Lead = 35 km)	cum	1.000	8.00	8.00
2262	Carriage of flyash 1st lead 0 to 5 km	cum	1.000	106.49	106.49
	TOTAL				114.49
	Add Water Charges @ 1%				1.14
	TOTAL				115.63
	Add CPOH @ 15%				17.34
	Cost of 1 cum				132.97
	Say				132.95
2.38	Filling with available fly ash and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer –in-charge, including compacting each layer by rolling/ ramming and watering , all complete as per drawing and direction of Engineer -in - charge.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	Ref :- Based on DAR Item No : 2.25				
	LABOUR:				
0128	Mate	day	0.200	363.00	72.60
0115	Coolie	day	2.500	329.00	822.50
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				967.70
	Add Water Charges @ 1%				9.68
	TOTAL				977.38
	Add CPOH @ 15%				146.61
	Cost of 10 cum				1123.99
	Cost of 1 cum				112.40
	Say				112.40

SUB HEAD : 3.0

MORTARS

3.1 Cement Mortar 1:1 (1 cement : 1 fine sand).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.7125 cum. of cement = 1.02 tonne) Cement required for cement mortar is 71.25%				
0367	Portland Cement	tonne	1.020	6300.00	6426.00
2209	Carriage of cement	tonne	1.020	94.65	96.54
0983	Fine sand (zone IV)	cum	0.713	700.00	498.75
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.713	106.49	75.87
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.900	1.78	47.88
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				7441.27
	Cost of 1 cum				7441.27
	Say				7441.25
3.2 Cement mortar 1:2 (1 cement : 2 fine sand).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne) Cement required for cement mortar is 47.50%				
0367	Portland Cement	tonne	0.680	6300.00	4284.00
2209	Carriage of cement	tonne	0.680	94.65	64.36
0983	Fine sand (zone IV)	cum	0.950	700.00	665.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.950	106.49	101.17
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				5458.66
	Cost of 1 cum				5458.66
	Say				5458.65
3.3 Cement mortar 1:3 (1 cement : 3 fine sand).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.375 cum. of cement = 0.51 tonne) Cement required for cement mortar is 35.70%				
0367	Portland Cement	tonne	0.510	6300.00	3213.00
2209	Carriage of cement	tonne	0.510	94.65	48.27
0983	Fine sand (zone IV)	cum	1.070	700.00	749.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.070	106.49	113.94
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				4468.34
	Cost of 1 cum				4468.34
	Say				4468.35

3.4 Cement mortar 1:4 (1 cement : 4 fine sand).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.268 cum. of cement = 0.38 tonne) Cement required for cement mortar is 26.80%				
0367	Portland Cement	tonne	0.380	6300.00	2394.00
2209	Carriage of cement	tonne	0.380	94.65	35.97
0983	Fine sand (zone IV)	cum	1.070	700.00	749.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.070	106.49	113.94
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3637.04
	Cost of 1 cum				3637.04
	Say				3637.05

3.5 Cement mortar 1:5 (1 cement : 5 fine sand).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.214 cum. of cement = 0.31 tonne) Cement required for cement mortar is 21.40%				
0367	Portland Cement	tonne	0.310	6300.00	1953.00
2209	Carriage of cement	tonne	0.310	94.65	29.34
0983	Fine sand (zone IV)	cum	1.070	700.00	749.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.070	106.49	113.94
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3189.41
	Cost of 1 cum				3189.41
	Say				3189.40

3.6 Cement mortar 1:6 (1 cement : 6 fine sand).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.178 cum. of cement = 0.25 tonne) Cement required for cement mortar is 17.80%				
0367	Portland Cement	tonne	0.250	6300.00	1575.00
2209	Carriage of cement	tonne	0.250	94.65	23.66
0983	Fine sand (zone IV)	cum	1.070	700.00	749.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.070	106.49	113.94
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				2805.73
	Cost of 1 cum				2805.73
	Say				2805.75
3.7 Cement mortar 1:2 (1 cement : 2 coarse sand).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne) Cement required for cement mortar is 47.5%				
0367	Portland Cement	tonne	0.680	6300.00	4284.00
2209	Carriage of cement	tonne	0.680	94.65	64.36
0982	Coarse sand (zone III)	cum	0.950	1200.00	1140.00
2203	Carriage of coarse sand	cum	0.950	106.49	101.17
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				5933.66
	Cost of 1 cum				5933.66
	Say				5933.65
3.8 Cement mortar 1:3 (1 cement : 3 coarse sand).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.357 cum. of cement = 0.51 tonne) Cement required for cement mortar is 35.70%				
0367	Portland Cement	tonne	0.510	6300.00	3213.00
2209	Carriage of cement	tonne	0.510	94.65	48.27
0982	Coarse sand (zone III)	cum	1.070	1200.00	1284.00
2203	Carriage of coarse sand	cum	1.070	106.49	113.94
	LABOUR:				
	For measuring, carrying, depositing and mixing-				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				5003.34
	Cost of 1 cum				5003.34
	Say				5003.35

3.9 Cement mortar 1:4 (1 cement : 4 coarse sand).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.268 cum. of cement = 0.38 tonne) Cement required for cement mortar is 26.80%				
0367	Portland Cement	tonne	0.380	6300.00	2394.00
2209	Carriage of cement	tonne	0.380	94.65	35.97
0982	Coarse sand (zone III)	cum	1.070	1200.00	1284.00
2203	Carriage of coarse sand	cum	1.070	106.49	113.94
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				4172.04
	Cost of 1 cum				4172.04
	Say				4172.05

3.10 Cement mortar 1:5 (1 cement : 5 coarse sand).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.214cum. of cement = 0.31 tonne) Cement required for cement mortar is 21.40%				
0367	Portland Cement	tonne	0.310	6300.00	1953.00
2209	Carriage of cement	tonne	0.310	94.65	29.34
0982	Coarse sand (zone III)	cum	1.070	1200.00	1284.00
2203	Carriage of coarse sand	cum	1.070	106.49	113.94
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3724.41
	Cost of 1 cum				3724.41
	Say				3724.40

3.11 Cement mortar 1:6 (1 cement : 6 coarse sand).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.178 cum. of cement = 0.25 tonne) Cement required for cement mortar is 17.80%				
0367	Portland Cement	tonne	0.250	6300.00	1575.00
2209	Carriage of cement	tonne	0.250	94.65	23.66
0982	Coarse sand (zone III)	cum	1.070	1200.00	1284.00
2203	Carriage of coarse sand	cum	1.070	106.49	113.94
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3340.73
	Cost of 1 cum				3340.73
	Say				3340.75
3.12 Cement mortar 1:2 (1 cement : 2 stone dust).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne) Cement required for cement mortar is 47.50%				
0367	Portland Cement	tonne	0.680	6300.00	4284.00
2209	Carriage of cement	tonne	0.680	94.65	64.36
1159	Stone dust	cum	0.950	1100.00	1045.00
2267	Carriage of stone dust	cum	0.950	106.49	101.17
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				5838.66
	Cost of 1 cum				5838.66
	Say				5838.65
3.13 Cement mortar 1:2 (1 cement : 2 marble dust).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne) Cement required for cement mortar is 47.50%				
0367	Portland Cement	tonne	0.680	6300.00	4284.00
2209	Carriage of cement	tonne	0.680	94.65	64.36
0784	Marble dust/ powder	cum	0.950	1000.00	950.00
2268	Carriage of marble dust and/or marble chips	cum	0.950	106.49	101.17
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				5743.66
	Cost of 1 cum				5743.66
	Say				5743.65

3.14 Cement mortar 1:5 (1 cement : 5 marble dust).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.214 cum. of cement = 0.31 tonne) Cement required for cement mortar is 21.40%				
0367	Portland Cement	tonne	0.310	6300.00	1953.00
2209	Carriage of cement	tonne	0.310	94.65	29.34
0784	Marble dust/ powder	cum	1.070	1000.00	1070.00
2268	Carriage of marble dust and/or marble chips	cum	1.070	106.49	113.94
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3510.41
	Cost of 1 cum				3510.41
	Say				3510.40

3.15 White cement mortar 1:2 (1 white cement : 2 marble dust).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum. of white cement = 0.68 tonne) Cement required for cement mortar is 47.50%				
0368	White Cement	tonne	0.680	14000.00	9520.00
2209	Carriage of cement	tonne	0.680	94.65	64.36
0784	Marble dust/ powder	cum	0.950	1000.00	950.00
2268	Carriage of marble dust and/or marble chips	cum	0.950	106.49	101.17
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				10979.66
	Cost of 1 cum				10979.66
	Say				10979.65

3.16 White cement mortar 1:3 (1 white cement : 3 marble dust).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.357 cum. of white cement = 0.51 tonne) Cement required for cement mortar is 35.70%				
0368	White Cement	tonne	0.510	14000.00	7140.00
2209	Carriage of cement	tonne	0.510	94.65	48.27
0784	Marble dust/ powder	cum	1.070	1000.00	1070.00
2268	Carriage of marble dust and/or marble chips	cum	1.070	106.49	113.94
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				8716.34
	Cost of 1 cum				8716.34
	Say				8716.35
3.17 White cement mortar 1:5 (1 white cement : 5 marble dust).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.214 cum. of white cement = 0.31 tonne) Cement required for cement mortar is 21.40%				
0368	White Cement	tonne	0.310	14000.00	4340.00
2209	Carriage of cement	tonne	0.310	94.65	29.34
0784	Marble dust/ powder	cum	1.070	1000.00	1070.00
2268	Carriage of marble dust and/or marble chips	cum	1.070	106.49	113.94
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.070	363.00	25.41
9999	Hire and running charges of mechanical mixer	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				5897.41
	Cost of 1 cum				5897.41
	Say				5897.40
3.18 Mud mortar.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0811	Mud (dry)	cum	1.080	65.00	70.20
	LABOUR:				
0114	Beldar	day	0.630	329.00	207.27
0101	Bhisti	day	0.315	363.00	114.34
9999	Sundries	L.S.	6.450	1.78	11.48
	TOTAL				403.29
	Cost of 1 cum				403.29
	Say				403.30

3.19 Mortar in lime , surkhi (50% red and 50% light yellow) and marble dust 1:1.5:0.5					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum of lime putty=3.01 q of unslaked lime)				
1182	Surkhi	cum	0.713	700.00	498.75
0773	Unslaked lime	quintal	3.010	300.00	903.00
0784	Marble dust/ powder	cum	0.240	1000.00	240.00
2268	Carriage of marble dust and/or marble chips	cum	0.240	106.49	25.56
2208	Carriage of lime	cum	3.010	106.49	320.53
	LABOUR:for slaking lime, making lime putty, grinding and carrying				
0114	Beldar	day	0.900	329.00	296.10
0101	Bhisti	day	0.450	363.00	163.35
9999	As cost for running and upkeep of mortar mill	L.S.	10.350	1.78	18.42
9999	Sundries	L.S.	5.200	1.78	9.26
	TOTAL				2474.97
	Cost of 1 cum				2474.97
	Say				2474.95

SUB HEAD : 4.0

CONCRETE WORK

4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:				
4.1.1	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.640	1175.00	752.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.210	1175.00	246.75
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.850	106.49	90.52
0982	Coarse sand (zone III)	cum	0.425	1200.00	510.00
2203	Carriage of coarse sand	cum	0.425	106.49	45.26
0367	Portland Cement	tonne	0.610	6300.00	3843.00
	(0.425cum)				
2209	Carriage of cement	tonne	0.610	94.65	57.74
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	14.300	1.78	25.45
	TOTAL				6483.29
	Add Water Charges @ 1%				64.83
	TOTAL				6548.12
	Add CPOH @ 15%				982.22
	Cost of 1 cum				7530.34
	Say				7530.35
4.1.2	1:1½ :3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.570	1175.00	669.75
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.280	1175.00	329.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.850	106.49	90.52
0982	Coarse sand (zone III)	cum	0.425	1200.00	510.00
2203	Carriage of coarse sand	cum	0.425	106.49	45.26
0367	Portland Cement	tonne	0.400	6300.00	2520.00
	(0.2833 cum)				
2209	Carriage of cement	tonne	0.400	94.65	37.86
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	14.300	1.78	25.45
	TOTAL				5140.41
	Add Water Charges @ 1%				51.40
	TOTAL				5191.81
	Add CPOH @ 15%				778.77
	Cost of 1 cum				5970.58
	Say				5970.60

4.1.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.670	1175.00	787.25
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.220	1175.00	258.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.890	106.49	94.78
0982	Coarse sand (zone III)	cum	0.445	1200.00	534.00
2203	Carriage of coarse sand	cum	0.445	106.49	47.39
0367	Portland Cement	tonne	0.320	6300.00	2016.00
	(0.2225 cum)				
2209	Carriage of cement	tonne	0.320	94.65	30.29
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	14.300	1.78	25.45
	TOTAL				4706.23
	Add Water Charges @ 1%				47.06
	TOTAL				4753.29
	Add CPOH @ 15%				712.99
	Cost of 1 cum				5466.28
	Say				5466.30

4.1.4 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.520	1050.00	546.00
	0.56 - (7.5% for voids i.e.) 0.04 = 0.52 cum				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.220	1175.00	258.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.110	1175.00	129.25
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.520	115.75	60.19
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.330	106.49	35.14
0982	Coarse sand (zone III)	cum	0.445	1200.00	534.00
2203	Carriage of coarse sand	cum	0.445	106.49	47.39
0367	Portland Cement	tonne	0.320	6300.00	2016.00
	(0.2225 cum)				
2209	Carriage of cement	tonne	0.320	94.65	30.29
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				4593.40
	Add Water Charges @ 1%				45.93
	TOTAL				4639.33
	Add CPOH @ 15%				695.90
	Cost of 1 cum				5335.23
	Say				5335.25

4.1.5 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.700	1175.00	822.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.240	1175.00	282.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.940	106.49	100.10
0982	Coarse sand (zone III)	cum	0.470	1200.00	564.00
2203	Carriage of coarse sand	cum	0.470	106.49	50.05
0367	Portland Cement	tonne	0.220	6300.00	1386.00
	(0.15674 cum)				
2209	Carriage of cement	tonne	0.220	94.65	20.82
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				4162.11
	Add Water Charges @ 1%				41.62
	TOTAL				4203.73
	Add CPOH @ 15%				630.56
	Cost of 1 cum				4834.29
	Say				4834.30

4.1.6 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.650	1050.00	682.50
	(0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.470	1200.00	564.00
2203	Carriage of coarse sand	cum	0.470	106.49	50.05
0367	Portland Cement	tonne	0.220	6300.00	1386.00
	(0.15674 cum)				
2209	Carriage of cement	tonne	0.220	94.65	20.82
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				4022.81
	Add Water Charges @ 1%				40.23
	TOTAL				4063.04
	Add CPOH @ 15%				609.46
	Cost of 1 cum				4672.50
	Say				4672.50

4.1.7 1:3:6 (1 cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0983	Fine sand (zone IV)	cum	0.470	700.00	329.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.470	106.49	50.05
0367	Portland Cement (0.15674 cum)	tonne	0.220	6300.00	1386.00
2209	Carriage of cement	tonne	0.220	94.65	20.82
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3787.81
	Add Water Charges @ 1%				37.88
	TOTAL				3825.69
	Add CPOH @ 15%				573.85
	Cost of 1 cum				4399.54
	Say				4399.55
4.1.8 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.470	1200.00	564.00
2203	Carriage of coarse sand	cum	0.470	106.49	50.05
0367	Portland Cement (0.1175 cum)	tonne	0.170	6300.00	1071.00
2209	Carriage of cement	tonne	0.170	94.65	16.09
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3703.08
	Add Water Charges @ 1%				37.03
	TOTAL				3740.11
	Add CPOH @ 15%				561.02
	Cost of 1 cum				4301.13
	Say				4301.15

4.1.9 1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0983	Fine sand (zone IV)	cum	0.470	700.00	329.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.470	106.49	50.05
0367	Portland Cement (0.1175 cum)	tonne	0.170	6300.00	1071.00
2209	Carriage of cement	tonne	0.170	94.65	16.09
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3468.08
	Add Water Charges @ 1%				34.68
	TOTAL				3502.76
	Add CPOH @ 15%				525.41
	Cost of 1 cum				4028.17
	Say				4028.15

4.1.10 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.470	1200.00	564.00
2203	Carriage of coarse sand	cum	0.470	106.49	50.05
0367	Portland Cement (0.2225 cum)	tonne	0.130	6300.00	819.00
2209	Carriage of cement	tonne	0.130	94.65	12.30
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3447.29
	Add Water Charges @ 1%				34.47
	TOTAL				3481.76
	Add CPOH @ 15%				522.26
	Cost of 1 cum				4004.02
	Say				4004.00

4.1.11 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0983	Fine sand (zone IV)	cum	0.470	700.00	329.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.470	106.49	50.05
0367	Portland Cement (0.2225 cum)	tonne	0.130	6300.00	819.00
2209	Carriage of cement	tonne	0.130	94.65	12.30
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	8.970	1.78	15.97
	TOTAL				3204.19
	Add Water Charges @ 1%				32.04
	TOTAL				3236.23
	Add CPOH @ 15%				485.43
	Cost of 1 cum				3721.66
	Say				3721.65

4.1.12 1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand : 9 graded stone aggregate 40 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.370	1200.00	444.00
2203	Carriage of coarse sand	cum	0.370	106.49	39.40
1980	Fly ash	cum	0.210	8.00	1.68
2262	Carriage of flyash	cum	0.210	106.49	22.36
0367	Portland Cement	tonne	0.170	6300.00	1071.00
2209	Carriage of cement	tonne	0.170	94.65	16.09
LABOUR:					
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	14.300	1.78	25.45
TOTAL					3597.85
Add Water Charges @ 1%					35.98
TOTAL					3633.83
Add CPOH @ 15%					545.07
Cost of 1 cum					4178.90
Say					4178.90

4.1.13 1:2½:4: 11 (1 ordinary portland cement : 2½ fly ash : 4 coarse sand : 11 graded stone aggregate 40 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 1 cum</i>					
MATERIAL:					
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.340	1200.00	408.00
2203	Carriage of coarse sand	cum	0.340	106.49	36.21
1980	Fly ash	cum	0.210	8.00	1.68
2262	Carriage of flyash	cum	0.210	106.49	22.36
0367	Portland Cement	tonne	0.130	6300.00	819.00
2209	Carriage of cement	tonne	0.130	94.65	12.30
LABOUR:					
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	1.630	329.00	536.27
0101	Bhisti	day	0.700	363.00	254.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	14.300	1.78	25.45
TOTAL					3302.87
Add Water Charges @ 1%					33.03
TOTAL					3335.90
Add CPOH @ 15%					500.38
Cost of 1 cum					3836.28
Say					3836.30

4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc. up to floor five level, excluding the cost of centering, shuttering and finishing :				
4.2.1	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.640	1175.00	752.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.210	1175.00	246.75
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.850	106.49	90.52
0982	Coarse sand (zone III)	cum	0.425	1200.00	510.00
2203	Carriage of coarse sand	cum	0.425	106.49	45.26
0367	Portland Cement (0.425 cum)	tonne	0.610	6300.00	3843.00
2209	Carriage of cement	tonne	0.610	94.65	57.74
	LABOUR:				
0114	Beldar	day	0.900	329.00	296.10
0115	Coolie	day	0.780	329.00	256.62
0101	Bhisti	day	0.700	363.00	254.10
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Scaffolding	L.S.	114.400	1.78	203.63
9999	Sundries	L.S.	14.300	1.78	25.45
	Extra labour for lifting.material upto floorlevel = 0.75x2.5 = 1.88				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				7330.23
	Add Water Charges @ 1%				73.30
	TOTAL				7403.53
	Add CPOH @ 15%				1110.53
	Cost of 1 cum				8514.06
	Say				8514.05
4.2.2	1:1½:3 (1 cement : 1½ coarse sand :3 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.570	1175.00	669.75
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.280	1175.00	329.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.850	106.49	90.52
0982	Coarse sand (zone III)	cum	0.425	1200.00	510.00
2203	Carriage of coarse sand	cum	0.425	106.49	45.26
0367	Portland Cement (0.2833 cum)	tonne	0.400	6300.00	2520.00
2209	Carriage of cement	tonne	0.400	94.65	37.86
	LABOUR:				
0114	Beldar	day	0.900	329.00	296.10
0115	Coolie	day	0.780	329.00	256.62

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.700	363.00	254.10
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Scaffolding	L.S.	114.400	1.78	203.63
9999	Sundries	L.S.	14.300	1.78	25.45
0115	Coolie	day	1.880	329.00	618.52
	Extra labour for lifting.material upto floorlevel = 0.75x2.5 = 1.88				
	TOTAL				5987.35
	Add Water Charges @ 1%				59.87
	TOTAL				6047.22
	Add CPOH @ 15%				907.08
	Cost of 1 cum				6954.30
	Say				6954.30

4.2.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.670	1175.00	787.25
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.220	1175.00	258.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.890	106.49	94.78
0982	Coarse sand (zone III)	cum	0.445	1200.00	534.00
2203	Carriage of coarse sand	cum	0.445	106.49	47.39
0367	Portland Cement (0.2833 cum)	tonne	0.320	6300.00	2016.00
2209	Carriage of cement	tonne	0.320	94.65	30.29
	LABOUR:				
0114	Beldar	day	0.900	329.00	296.10
0115	Coolie	day	0.780	329.00	256.62
0101	Bhisti	day	0.700	363.00	254.10
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Scaffolding	L.S.	114.400	1.78	203.63
9999	Sundries	L.S.	14.300	1.78	25.45
0115	Coolie	day	1.880	329.00	618.52
	Extra labour for lifting.material upto floorlevel = 0.75x2.50 = 1.88				
	TOTAL				5553.17
	Add Water Charges @ 1%				55.53
	TOTAL				5608.70
	Add CPOH @ 15%				841.30
	Cost of 1 cum				6450.00
	Say				6450.00

4.2.4 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.56 cum-7.5% for voids i.e. 0.04 = 0.52 cum)	cum	0.520	1050.00	546.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.220	1175.00	258.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.110	1175.00	129.25
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.520	115.75	60.19
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.330	106.49	35.14
0982	Coarse sand (zone III)	cum	0.445	1200.00	534.00
2203	Carriage of coarse sand	cum	0.445	106.49	47.39
0367	Portland Cement (0.2225 cum)	tonne	0.320	6300.00	2016.00
2209	Carriage of cement	tonne	0.320	94.65	30.29
	LABOUR:				
0114	Beldar	day	0.900	329.00	296.10
0115	Coolie	day	0.780	329.00	256.62
0101	Bhisti	day	0.700	363.00	254.10
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Scaffolding	L.S.	114.400	1.78	203.63
9999	Sundries	L.S.	13.520	1.78	24.07
0115	Coolie	day	1.880	329.00	618.52
	Extra labour for lifting.material upto floorlevel = 0.75x2.50 = 1.88				
	TOTAL				5440.34
	Add Water Charges @ 1%				54.40
	TOTAL				5494.74
	Add CPOH @ 15%				824.21
	Cost of 1 cum				6318.95
	Say				6318.95
4.2.5 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.700	1175.00	822.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.240	1175.00	282.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.940	106.49	100.10
0982	Coarse sand (zone III)	cum	0.470	1200.00	564.00
2203	Carriage of coarse sand	cum	0.470	106.49	50.05
0367	Portland Cement (0.15674 cum)	tonne	0.220	6300.00	1386.00
2209	Carriage of cement	tonne	0.220	94.65	20.82
	LABOUR:				
0114	Beldar	day	0.900	329.00	296.10
0115	Coolie	day	0.780	329.00	256.62
0101	Bhisti	day	0.700	363.00	254.10
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	114.400	1.78	203.63
9999	Sundries	L.S.	13.520	1.78	24.07
0115	Coolie	day	1.880	329.00	618.52
	Extra labour for lifting.material upto floorlevel = 0.75x2.50 = 1.88				
	TOTAL				5009.05
	Add Water Charges @ 1%				50.09
	TOTAL				5059.14
	Add CPOH @ 15%				758.87
	Cost of 1 cum				5818.01
	Say				5818.00

4.2.6 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.470	1200.00	564.00
2203	Carriage of coarse sand	cum	0.470	106.49	50.05
0367	Portland Cement (0.15674 cum)	tonne	0.220	6300.00	1386.00
2209	Carriage of cement	tonne	0.220	94.65	20.82
	LABOUR:				
0114	Beldar	day	0.900	329.00	296.10
0115	Coolie	day	0.780	329.00	256.62
0101	Bhisti	day	0.700	363.00	254.10
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Scaffolding	L.S.	114.400	1.78	203.63
9999	Sundries	L.S.	13.520	1.78	24.07
0115	Coolie	day	1.880	329.00	618.52
	Extra labour for lifting.material upto floorlevel = 0.75x2.50 = 1.88				
	TOTAL				4869.75
	Add Water Charges @ 1%				48.70
	TOTAL				4918.45
	Add CPOH @ 15%				737.77
	Cost of 1 cum				5656.22
	Say				5656.20

4.2.7 1:3:6 (1 cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0983	Fine sand (zone IV)	cum	0.470	700.00	329.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.470	106.49	50.05
0367	Portland Cement (0.15674 cum)	tonne	0.220	6300.00	1386.00
2209	Carriage of cement	tonne	0.220	94.65	20.82
	LABOUR:				
0114	Beldar	day	0.900	329.00	296.10
0115	Coolie	day	0.780	329.00	256.62
0101	Bhisti	day	0.700	363.00	254.10
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Scaffolding	L.S.	114.400	1.78	203.63
9999	Sundries	L.S.	13.520	1.78	24.07
0115	Coolie	day	1.880	329.00	618.52
	Extra labour for lifting material upto floorlevel = 0.75x2.50 = 1.88				
	TOTAL				4634.75
	Add Water Charges @ 1%				46.35
	TOTAL				4681.10
	Add CPOH @ 15%				702.17
	Cost of 1 cum				5383.27
	Say				5383.25

4.2.8 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.470	1200.00	564.00
2203	Carriage of coarse sand	cum	0.470	106.49	50.05
0367	Portland Cement	tonne	0.130	6300.00	819.00
2209	Carriage of cement	tonne	0.130	94.65	12.30
	LABOUR:				
0114	Beldar	day	0.900	329.00	296.10
0115	Coolie	day	0.780	329.00	256.62
0101	Bhisti	day	0.700	363.00	254.10
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Scaffolding	L.S.	114.400	1.78	203.63

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	14.300	1.78	25.45
	Extra labour for lifting material up to floor five level = $0.75 \times 2.5 = 1.88$				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				4289.07
	Add Water Charges @ 1%				42.89
	TOTAL				4331.96
	Add CPOH @ 15%				649.79
	Cost of 1 cum				4981.75
	Say				4981.75

4.3 Centering and shuttering including strutting, propping etc. and removal of form work for :

4.3.1 Foundations, footings, bases for columns

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for footing size 2.7mx2.7mx1.00m Contact area = 10.80 sqm</i>				
	MATERIAL:				
	Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm	each	0.340	1050.00	357.00
	Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$				
7326	Corner angle 45x45x5 mm 1.50 m long	each	0.085	300.00	25.50
	Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$				
7327	100 mm channel shoulder 2.5 m long	each	0.170	1160.00	197.20
	Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$				
7328	Double clip (bridge clip)	each	0.340	97.00	32.98
	Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$				
7329	Single clip	each	0.170	77.00	13.09
	Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$				
7330	M.S. tube 40 mm dia	metre	0.230	280.00	64.26
	$4 \times 2.7 \text{m} = 10.8 \text{m}$ Qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$				
9999	Assembly nuts & bolts	L.S.	22.100	1.78	39.34
9999	Carriage	L.S.	78.000	1.78	138.84
	LABOUR:				
0116	Fitter (grade 1)	day	0.750	435.00	326.25
0114	Beldar	day	1.500	329.00	493.50
9999	Shuttering oil	L.S.	52.000	1.78	92.56
9999	Sundries	L.S.	26.000	1.78	46.28
	TOTAL				1826.80
	Add Water Charges @ 1%				18.27
	TOTAL				1845.07
	Add CPOH @ 15%				276.76
	Cost of 10.8 sqm				2121.83
	Cost of 1 sqm				196.47
	Say				196.45

4.3.2 Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 7.9m long and 1.00m high wall Area of contact 2x7.9x1.0 = 15.8 sqm.</i> MATERIAL: Assuming shuttering material will be unseviceable after use of timesAdding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm 2x3x2x2 = 24 Nos.Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.510	1050.00	535.50
7327	100 mm channel shoulder 2.5 m long 4x2=8 Qty taken for cost of using once = 8x0.85/40=0.17	each	0.170	1160.00	197.20
7328	Double clip (bridge clip) 2x6x2 = 24Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.510	97.00	49.47
7329	Single clip 2x3x2 = 12Qty taken for cost of using once = 12x0.85/40 = 0.255	each	0.255	77.00	19.64
7330	M.S. tube 40 mm dia 2x2x8m = 32mQty taken for cost of using once = 32x0.85/40 = 0.68	metre	0.680	280.00	190.40
9999	Nuts & bolts	L.S.	27.620	1.78	49.16
9999	Carriage	L.S.	78.000	1.78	138.84
	LABOUR:				
0116	Fitter (grade 1)	day	3.500	435.00	1522.50
0114	Beldar	day	6.000	329.00	1974.00
9999	Shuttering oil	L.S.	78.000	1.78	138.84
9999	Sundries	L.S.	52.000	1.78	92.56
	TOTAL				4908.11
	Add Water Charges @ 1%				49.08
	TOTAL				4957.19
	Add CPOH @ 15%				743.58
	Cost of 15.8 sqm				5700.77
	Cost of 1 sqm				360.81
	Say				360.80

4.3.3 Columns, piers, abutments, pillars, posts and struts					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Size of column 450x450mm and 2.5m highArea of contact = 4x0.45x2.5 = 4.5 sqm.</i> Assuming shuttering will become unserviceable after use of 40 timesAdd maintenance charges @ 10% of cost of MaterialLess salvage value of material after full use @ 25% of cost of material				
7331	Wall form panel 1250x450 mm Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.170	1040.00	176.80

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7332	Corner angle 45x45x5 mm 2.50 m long Qty taken for cost of using once = $4 \times 0.85/40 = 0.085$	each	0.085	340.00	28.90
7333	Column clamp 450x1070 mm Qty taken for cost of using once = $5 \times 0.85/40 = 0.1063$	each	0.106	1220.00	129.69
7334	Prop 2 m (2-3.5 m) Qty taken for cost of using once = $4 \times 0.85/40 = 0.085$	each	0.085	830.00	70.55
9999	Assembly nuts & bolts	L.S.	27.620	1.78	49.16
9999	Carriage	L.S.	52.000	1.78	92.56
	LABOUR:				
0116	Fitter (grade 1)	day	1.000	435.00	435.00
0114	Beldar	day	2.000	329.00	658.00
9999	Shuttering oil	L.S.	39.000	1.78	69.42
9999	Carriage	L.S.	26.000	1.78	46.28
	TOTAL				1756.36
	Add Water Charges @ 1%				17.56
	TOTAL				1773.92
	Add CPOH @ 15%				266.09
	Cost of 4.5 sqm				2040.01
	Cost of 1 sqm				453.34
	Say				453.35

4.4.1 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for kerb :100m long 20cm deep and 30cm wide. $100m \times 30m \times 0.20m = 6.00 \text{ cum}$. Cement Concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	6.000	5466.30	32797.80A
	TOTAL				32797.80
	Cost of 6 cum				32797.80
	Cost of 1 cum				5466.30
	Say				5466.30

4.4.2 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate	Amount
	Details of cost for kerb :100m long 20cm deep and 30cm wide. $100m \times 30m \times 0.20m = 6.00 \text{ cum}$. $100 \times 30 \times 0.20 = 6.00 \text{ cum}$ Cement concrete 1:3:6				
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work	cum	6.000	4834.30	29005.80A
	TOTAL				29005.80
	Cost of 6 cum				29005.80
	Cost of 1 cum				4834.30
	Say				4834.30

4.5	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.				
4.5.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Plain window sill 15 nos.15x1m x 0.20m x 0.15m = 0.45cum.</i>				
	MATERIAL:				
	Cement concrete 1:1.5:3				
4.1.2	Rate as per Item Number 4.1.2 of SH: Concrete work	cum	0.450	5970.60	2686.77A
	Extra labour for lifting 0.45 x 0.45 x 2.5 = 0.51				
0115	Coolie	day	0.510	329.00	167.79
	Centering and shuttering(1) Mould(i) Plate 3mm thick: (2x1x0.15)+(2x0.15x0.20) = 0.36 sqm. @ 23.55kg/m ² = 8.48 kg. (ii) Flat 10x5mm: 4x1.0 = 4.0m8x0.2 = 1.6m4x0.15 = 0.60mHandle 2x0.25 = 0.5m=6.70 m @ 0.4kg/m = 2.68 kg. Total = 11.16kg. or 0.112 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit.Qty taken for cost of using once = 0.112x0.75/40 = 0.0021 qtl = 0.21 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	0.210	67.70	14.22A
	(2) Moulding PlatformAssuming platform will become unserviceable after use of 40 times,(i) Brick on edge flooring cement mortar 1:61x2.0x2.0m = 4 sqm. Qty taken for cost of using once = 4/40 = 0.1 sqm				
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.100	630.10	63.01A
	(ii) 25mm thick cement concrete 1:2:4 in pavement 2.00x2.00x0.025 = 0.10cumQty taken for cost of using once = 0.100/40 = 0.0025 cum				
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.003	5759.20	14.40A
9999	Mortar and labour for hoisting and finishing	L.S.	36.300	1.78	64.61
	TOTAL				3010.80
	Add Water Charges @ 1% except on A i.e on (3,010.80 - 2,778.40 =) 232.40				
					2.32
	TOTAL				3013.12
	Add CPOH @ 15% except on A i.e on (3,013.12 - 2,778.40 =) 234.72				
					35.21
	Cost of 0.45 cum				
					3048.33
	Cost of 1 cum				
					6774.07
	Say				
					6774.05
4.5.2	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Plain window sill 15 nos.15x1m x 0.20m x 0.15m = 0.45cum.</i>				
	MATERIAL:				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.450	5466.30	2459.84A
	Centering and shuttering(1) Mould(i) Plate 3mm thick: (2x1x0.15)+(2x0.15x0.20) = 0.36 sqm. @ 23.55kg/m ² = 8.48 kg. (ii) Flat 10x5mm: 4x1.0 = 4.0m8x0.2 = 1.6m4x0.15 = 0.60mHandle 2x0.25 = 0.5m=6.70 m @ 0.4kg/m = 2.68 kg. Total = 11.16kg. or 0.112 qtl. Assuming shuttering will become unserviceable after use of 40				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	times and taking 75% credit.Qty taken for cost of using once = $0.112 \times 0.75 / 40 = 0.0021$ qtl = 0.21 kg Extra labour for lifting $0.45 \times 0.45 \times 2.5 = 0.51$				
0115	Coolie	day	0.510	329.00	167.79
10.1	Rate as per Item Number 10.1 of SH: Steel work (2) Moulding PlatformAssuming platform will become unserviceable after use of 40 times,(i) Brick on edge flooring cement mortar 1:61x2.0x2.0m = 4 sqm. Qty taken for cost of using once = $4/40 = 0.1$ sqm	kg	0.210	67.70	14.22A
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring (ii) 25mm thick cement concrete 1:2:4 inpavement2.00x2.00x0.025 = 0.10cumQty taken for cost of using once = $0.100/40 = 0.0025$ cum	sqm	0.100	630.10	63.01A
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.003	5759.20	14.40A
9999	Mortar and labour for hoisting and finishing	L.S.	36.300	1.78	64.61
	TOTAL				2783.87
	Add Water Charges @ 1% except on A i.e on (2,783.87 - 2,551.47 =) 232.40				2.32
	TOTAL				2786.19
	Add CPOH @ 15% except on A i.e on (2,786.19 - 2,551.47 =) 234.72				35.21
	Cost of 0.45 cum				2821.40
	Cost of 1 cum				6269.78
	Say				6269.80

4.5.3 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Plain window sill 15 nos.15x1m x 0.20m x 0.15m = 0.45cum.</i> MATERIAL: Cement concrete 1:3:6				
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work Extra labour for lifting $0.45 \times 0.45 \times 2.5 = 0.51$	cum	0.450	4834.30	2175.44A
0115	Coolie	day	0.510	329.00	167.79
	Centering and shuttering(1) Mould(i) Plate 3mm thick $(2 \times 1 \times 0.15) + (2 \times 0.15 \times 0.20) = 0.36$ sqm. @ 23.55kg/m ² = 8.48 kg. (ii) Flat 10x5mm4x1.0 = 4.0m8x0.2 = 1.6m4 x 0.15 = 0.60mHandle 2x0.25 = 0.5m=6.70m@ 0.4kg/m = 2.68 kg. Total = 11.16kg. or 0.112 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit.Qty taken for cost of using once = $0.112 \times 0.75 / 40 = 0.0021$ qtl = 0.21 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work (2) Moulding PlatformAssuming platform will become unserviceable after use of 40 times,(i) Brick on edge flooring cement mortar1:61x2.0x2.0m = 4 sqm Qty taken for cost of using once = $4/40 = 0.1$ sqm	kg	0.210	67.70	14.22A
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring (ii) 25mm thick cement concrete 1:2:4 in pavement 2.00 x2.00x0.025 = 0.1Qty taken for cost of using once = $0.100/40 = 0.0025$ cum	sqm	0.100	630.10	63.01A
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.003	5759.20	14.40A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mortar and labour for hoisting and finishing	L.S.	36.300	1.78	64.61
	TOTAL				2499.47
	Add Water Charges @ 1% except on A i.e on (2,499.47 - 2,267.07 =) 232.40				2.32
	TOTAL				2501.79
	Add CPOH @ 15% except on A i.e on (2,501.79 - 2,267.07 =) 234.72				35.21
	Cost of 0.45 cum				2537.00
	Cost of 1 cum				5637.78
	Say				5637.80
4.6	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), including the cost of required centering, shuttering complete.				
4.6.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 25 no kerbs, 40x30x20cm=25 no x 0.40m x 0.30m x 0.20m = 0.6 cum</i>				
	MATERIAL:				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work Centering and shuttering(1) Mould(i) Plate 3mm thick 0.28 sqm. @ 23.55kg/m ² = 6.59 kg. (ii) Flat 10x5mm Handle 2x0.25 x0.4 = @ 0.4kg/m = 0.20 kg.= 6.79kg. or 0.068 qtl.Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit.Qty taken for cost of using once = 0.068x0.75/40 = 0.001275 qtl = 0.1275 kg	cum	0.600	5466.30	3279.78A
10.1	Rate as per Item Number 10.1 of SH: Steel work (2) Moulding PlatformAssuming platform will become unserviceable after use of 40 times.(i) Brick on edge flooring cement mortar 1:61x2.0x2.0m = 4 sqm.Qty taken for cost of using once = 4/40 = 0.1 sqm	kg	0.128	67.70	8.63A
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring (ii) 25mm thick cement concrete 1:2:4 in pavement 2.00x2.00x0.025 = 0.10Qty taken for cost of using once = 0.100/40 = 0.0025 cum	sqm	0.100	630.10	63.01A
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.003	5759.20	14.40A
9999	Mortar and labour for finishing	L.S.	30.540	1.78	54.36
	TOTAL				3420.18
	Add Water Charges @ 1% except on A i.e on (3,420.18 - 3,365.82 =) 54.36				0.54
	TOTAL				3420.72
	Add CPOH @ 15% except on A i.e on (3,420.72 - 3,365.82 =) 54.90				8.24
	Cost of 0.6 cum				3428.96
	Cost of 1 cum				5714.93
	Say				5714.95

4.7 Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete:

4.7.1 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 25 no blocks, 40x20x30cm=25 no x 0.40m x 0.30m x 0.20m = 0.60 cum</i>				
	MATERIAL:				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work Centering and shuttering(1) Mould(i) Plate 3mm thick 0.28 sqm. @ 23.55kg/m ² = 6.59 kg.(ii) Flat 10x5mm Handle 2x0.25 x0.4 = @ 0.4kg/m = 0.20 kg.= 6.79kg. or 0.068 qtl.Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit.Qty taken for cost of using once = 0.068x0.75/40 = 0.001275 qtl = 0.1275 kg	cum	0.600	5466.30	3279.78A
10.1	Rate as per Item Number 10.1 of SH: Steel work (2) Moulding PlatformAssuming platform will become unserviceable after use of 40 times,(i) Brick on edge flooring cement mortar 1:61x2.0x2.0m = 4 sqm.Qty taken for cost of using once = 4/40 = 0.1 sqm	kg	0.128	67.70	8.63A
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring (ii) 25mm thick cement concrete 1:2:4 in pavement 2.00x2.00x0.025 = 0.10Qty taken for cost of using once = 0.100/40 = 0.0025 cum	sqm	0.100	630.10	63.01A
11.7	Rate as per Item Number 11.7 of SH: Flooring Mortar 1:3 for Fixing0.202/100x25=0.051	cum	0.003	5759.20	14.40A
3.8	Rate as per Item Number 3.8 of SH: Mortars Extra for Labour for lifting27/100x25=0.675 or 0.68	cum	0.051	5003.35	255.17
0115	Coolie Labour for hoisting and setting in position	day	0.680	329.00	223.72
0123	Mason (brick layer) 1 st class	day	0.600	435.00	261.00
0114	Beldar Finishing25x2(0.4x0.3) =6.0 sqm.	day	3.600	329.00	1184.40
	TOTAL				5290.11
	Add Water Charges @ 1% except on A i.e on (5,290.11 - 3,365.82 =) 1,924.29				19.24
	TOTAL				5309.35
	Add CPOH @ 15% except on A i.e on (5,309.35 - 3,365.82 =) 1,943.53				291.53
	Cost of 0.6 cum				5600.88
	Cost of 1 cum				9334.80
	Say				9334.80

4.7.2 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 25 no blocks, 40x20x30cm=25 no x 0.40m x 0.30m x 0.20m = 0.6 cum</i>				
	MATERIAL:				
	Cement concrete 1:3:6				
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work	cum	0.600	4834.30	2900.58A
	Mortar for fixing cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.051	5003.35	255.17
	Centering and shuttering(1) Mould(i) Plate 3mm thick. 0.28 sqm. @ 23.55kg/m ² = 6.59 kg. (ii) Flat 10x5mm Handle 2x0.25 x0.4 = @ 0.4kg/m = 0.20 kg.= 6.79kg. or 0.068 qtl.Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = 0.068x0.75/40 = 0.001275 qtl = 0.1275 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	0.128	67.70	8.63A
	(2) Moulding PlatformAssuming platform will become unserviceable after use of 40 times,(i) Brick on edge flooring cement mortar 1:61x2.0x2.0m = 4 sqm.Qty taken for cost of using once = 4/40 = 0.1 sqm				
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.100	630.10	63.01A
	(ii) 25mm thick cement concrete 1:2:4 in pavement 2.00x2.00x0.025 = 0.100Qty taken for cost of using once = 0.100/40 = 0.0025 cum				
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.003	5759.20	14.40A
	LABOUR:				
	Extra Labour for lifting material upto floor V level				
0115	Coolie	day	0.680	329.00	223.72
	Labour for hoisting and setting in position				
0123	Mason (brick layer) 1 st class	day	0.600	435.00	261.00
0114	Beldar	day	3.600	329.00	1184.40
	TOTAL				4910.91
	Add Water Charges @ 1% except on A i.e on (4,910.91 - 2,986.62 =) 1,924.29				
					19.24
	TOTAL				4930.15
	Add CPOH @ 15% except on A i.e on (4,930.15 - 2,986.62 =) 1,943.53				
					291.53
	Cost of 0.6 cum				
					5221.68
	Cost of 1 cum				
					8702.80
	Say				
					8702.80
4.8	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete :				
4.8.1	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one block of overall size1m x 0.50m and 0.10m thick having 6 vertical hollows, 40x20x30 cmfinished contents = 1mx0.5mx0.1m = 0.05cum</i>				
	MATERIAL:				
	Cement concrete 1:2:4Net qty = 0.05 [6x0.5x{2x1/2 (0.05+7)}x0.074] = 0.023cum				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.023	5466.30	125.72A
9999	Centering and shuttering including T&P charges, hire charges of steel mould, table vibrator, rammer, bolts nuts & washers etc.	L.S.	26.910	1.78	47.90
	Extra Labour for lifting material upto floor V level				
0115	Coolie	day	0.056	329.00	18.42
	Labour for hoisting and setting in position				
0123	Mason (brick layer) 1 st class	day	0.050	435.00	21.75
0114	Beldar	day	0.300	329.00	98.70
	Cement mortar 1:2 for fixing				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.002	5933.65	11.87
	TOTAL				324.36
	Add Water Charges @ 1% except on A i.e on (324.36 - 125.72 =) 198.64				1.99
	TOTAL				326.35
	Add CPOH @ 15% except on A i.e on (326.35 - 125.72 =) 200.63				30.09
	Cost of 0.05 cum				356.44
	Cost of 1 cum				7128.80
	Say				7128.80

4.8.2 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one block of overall size 1m x 0.50m and 0.10m thick having 6 vertical hollows, 40x20x30cm finished contents = 1mx0.5mx0.1m = 0.05cum</i>				
	MATERIAL:				
	Cement concrete 1:3:6 Net qty = 0.05 [6x0.5x{2x1/2 (0.05+7)}x6.074] = 0.023cum				
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work	cum	0.023	4834.30	111.19A
9999	Centering and shuttering including T&P charges, hire charges of steel mould, table vibrator, rammer, bolts nuts & washers etc.	L.S.	26.910	1.78	47.90
	Extra Labour for lifting material upto floor V level				
0115	Coolie	day	0.056	329.00	18.42
	Labour for hoisting and setting in position				
0122	Mason (for plaster of paris work) 1 st class	day	0.050	435.00	21.75
0114	Beldar	day	0.300	329.00	98.70
	Mortar for fixing cement mortar 1:2				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.002	5933.65	11.87
	TOTAL				309.83
	Add Water Charges @ 1% except on A i.e on (309.83 - 111.19 =) 198.64				1.99
	TOTAL				311.82
	Add CPOH @ 15% except on A i.e on (311.82 - 111.19 =) 200.63				30.09
	Cost of 0.05 cum				341.91
	Cost of 1 cum				6838.20
	Say				6838.20

- 4.9 Precasting and placing in position 125 mm dia Bollards 600 mm high of required shape, including providing M.S. Pipe Sleeve 50 mm dia 300 mm long in the Bollard and M.S. Pipes 40 mm dia and 450 mm long with 150x150x6 mm M.S. plate welded at bottom and embedded 150 mm in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), including necessary excavation of size 250x250x450 mm deep for the same in bitumen/concrete pavement at specified spacing.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one bollard</i>				
	MATERIAL:				
	Cement concrete 1:2:4 1/4x0.125x0.60 = 0.007cum				
5.1.3	Rate as per Item Number 5.1.3 of SH: Reinforced cement concrete work	cum	0.007	5725.90	40.08A
	Centering and shuttering 3.14x(0.125)x0.60 = 0.24 sqm				
5.9.1	Rate as per Item Number 5.9.1 of SH: Reinforced cement concrete work	sqm	0.240	196.45	47.15A
	M.S. pipes (medium class) 50 mm dia sleeve = 1x0.30 x 5.10=1.53 kg				
	40 mm dia pipe = 1x0.45x3.61 =1.62 kg				
	M.S. plate 3mm thick =(0.15x0.15)x23.55 =0.53 kg				
	Total =3.68 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	3.680	67.70	249.14A
	Excavation 0.25x0.25x0.45 = 0.03 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	0.030	157.50	4.72A
	Cement concrete 1:3:6				
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work	cum	0.030	4834.30	145.03A
	6 mm rendering (1:3) (0.24+0.01) = 0.25 sqm				
5.23	Rate as per Item Number 5.23 of SH: Reinforced cement concrete work	sqm	0.250	134.70	33.67A
9999	Carriage and fixing charges	L.S.	13.000	1.78	23.14
	TOTAL				542.93
	Add Water Charges @ 1% except on A i.e on (542.93 - 519.79 =) 23.14				0.23
	TOTAL				543.16
	Add CPOH @ 15% except on A i.e on (543.16 - 519.79 =) 23.37				3.51
	Cost of each				546.67
	Say				546.65

- 4.10 Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) 10x0.040 = 0.40 cum				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.400	5466.30	2186.52A
	Add deduct for difference of cost between 20mm size and 12.5mm size				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	-0.268	1175.00	-341.90
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.268	1175.00	341.90
	Add for delay:				
0123	Mason (brick layer) 1st class	day	0.400	435.00	174.00
0124	Mason (brick layer) 2nd class	day	0.400	399.00	159.60
9999	Sundries (Form work etc.)	L.S.	1.950	1.78	3.47

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2523.59
	Add Water Charges @ 1% except on A i.e on (2,523.59 - 2,186.52 =) 337.07				3.37
	TOTAL				2526.96
	Add CPOH @ 15% except on A i.e on (2,526.96 - 2,186.52 =) 340.44				51.07
	Cost of 10 sqm				2578.03
	Cost of 1 sqm				257.80
	Say				257.80

4.11 Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Cement concrete 1:2:4 = 10x0.05 = 0.50 cum				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.500	5466.30	2733.15A
	Add for delay :				
0123	Mason (brick layer) 1 st class	day	0.400	435.00	174.00
0124	Mason (brick layer) 2nd class	day	0.400	399.00	159.60
9999	Sundries (Form work etc.)	L.S.	13.520	1.78	24.07
	TOTAL				3090.82
	Add Water Charges @ 1% except on A i.e on (3,090.82 - 2,733.15 =) 357.67				3.58
	TOTAL				3094.40
	Add CPOH @ 15% except on A i.e on (3,094.40 - 2,733.15 =) 361.25				54.19
	Cost of 10 sqm				3148.59
	Cost of 1 sqm				314.86
	Say				314.85

4.12 Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for per bag of 50kg. of cement</i>				
	MATERIAL:				
	Approved water proofing materials according to the recommended proportions				
1213	Water proofing materials	kilogram	1.000	35.00	35.00
9999	Carriage of water proofing material and labour for mixing etc.	L.S.	3.640	1.78	6.48
	TOTAL				41.48
	Add Water Charges @ 1%				0.41
	TOTAL				41.89
	Add CPOH @ 15%				6.28
	Cost per 50kg cement				48.17
	Say				48.15

4.13 Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0309	Paving bitumen of grade VG-10 of approved quality	tonne	0.017	50600.00	860.20
0771	Kerosene oil	litre	1.230	48.00	59.04
	Fuel for heating				
0370	Coal (steam)	quintal	0.035	400.00	14.00
2211	Carriage of tar / bitumen	tonne	0.017	94.65	1.81
	LABOUR:				
	Cleaning surface and applying kerosene oil				
0114	Beldar	day	0.120	329.00	39.48
	Heating the material-				
0115	Coolie	day	0.070	329.00	23.03
	Spreading hot tar over damp proof course				
0131	Painter	day	0.200	399.00	79.80
9999	Sundries (Carriage of Kerosene, steam coal, brushes, T&P etc.)	L.S.	33.150	1.78	59.01
	TOTAL				1136.17
	Add Water Charges @ 1%				11.36
	TOTAL				1147.53
	Add CPOH @ 15%				172.16
	Cost of 10 sqm				1319.89
	Cost of 1 sqm				131.99
	Say				132.00

4.14 Extra for concrete work in superstructure above floor V level for each four floors or part thereof.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one cum</i>				
	Extra labour element required for lifting of materials (0.75x2.00 = 1.50)				
0115	Coolie	day	1.500	329.00	493.50
	TOTAL				493.50
	Add Water Charges @ 1%				4.94
	TOTAL				498.44
	Add CPOH @ 15%				74.77
	Cost of 1 cum				573.21
	Say				573.20

4.15 Extra for laying concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete. Note for item No. 4.15 :- The quantity will be calculated by multiplying the depth measured from the sub-soil water level upto centre of gravity of concrete under sub-soil water level with quantity of concrete in cum executed under the sub-soil water. The depth of centre of gravity shall be reconed correct to 0.10 m. 0.05 m or more shall be taken as 0.10 m and less than 0.05 m ignored.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 14 cum per 0.3m depth</i>				
	Quantity of concrete = 14 cum. pumping hours = 3 hrs. or 0.375 day.				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	600.00	225.00
0114	Beldar	day	4.000	329.00	1316.00
	for cleaning slush				
	TOTAL				1541.00
	Add Water Charges @ 1%				15.41
	TOTAL				1556.41
	Add CPOH @ 15%				233.46
	Cost of 14 cum per 0.3m depth				1789.87
	Cost of 1 cum per metre depth				426.16
	Say				426.15

4.16 Extra for laying concrete in or under foul positions.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	Extra labour due to slow progress-				
0123	Mason (brick layer) 1 st class	day	0.020	435.00	8.70
0124	Mason (brick layer) 2nd class	day	0.020	399.00	7.98
0114	Beldar	day	0.250	329.00	82.25
0115	Coolie	day	0.150	329.00	49.35
	TOTAL				148.28
	Add Water Charges @ 1%				1.48
	TOTAL				149.76
	Add CPOH @ 15%				22.46
	Cost of 1 cum				172.22
	Say				172.20

4.17 Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0287	Brick Aggregate (Single size) : 40 mm nominal size	cum	0.750	600.00	450.00
2260	Carriage of brick aggregate	cum	0.750	115.75	86.81
0983	Fine sand (zone IV)	cum	0.060	700.00	42.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.060	106.49	6.39
	LABOUR:				
	Dressing the ground including cutting and filling upto 15cm				
0114	Beldar	day	0.160	329.00	52.64
0115	Coolie	day	0.110	329.00	36.19
	MATERIAL:				
	For C.C 1:3:6 Cement concrete 1:3:6 Qty. of cement concrete 1:3:6 on 10 sqm. area = 0.5cum.				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.350	1175.00	411.25
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.120	1175.00	141.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.470	106.49	50.05
0982	Coarse sand (zone III)	cum	0.230	1200.00	276.00
2203	Carriage of coarse sand	cum	0.230	106.49	24.49
0367	Portland Cement	tonne	0.110	6300.00	693.00
2209	Carriage of cement	tonne	0.110	94.65	10.41
	LABOUR:				
	For C.C 1:3:6				
0114	Beldar	day	1.000	329.00	329.00
0123	Mason (brick layer) 1 st class	day	0.050	435.00	21.75
0101	Bhisti	day	0.330	363.00	119.79
9999	Hire and running charges of mechanical mixer	L.S.	13.390	1.78	23.83
9999	Sundries	L.S.	6.760	1.78	12.03
	LABOUR:				
0155	Mason (average)	day	0.270	417.00	112.59
0114	Beldar	day	1.080	329.00	355.32
0115	Coolie	day	1.080	329.00	355.32
	TOTAL				3609.86
	Add Water Charges @ 1%				36.10
	TOTAL				3645.96
	Add CPOH @ 15%				546.89
	Cost of 10 sqm				4192.85
	Cost of 1 sqm				419.29
	Say				419.30

4.18 Extra for addition of synthetic polyester triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement concrete/RCC/Flooring /water retaining structures by using 125 gms of synthetic polyester triangular fibre for 50 kgs cement used as per directions of Engineer-in-Charge

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for per bag of 50 kg. of cement used in concrete</i>				
	MATERIAL				
8732	Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 including labour for mixing.	kg	0.125	365.00	45.62
	TOTAL				45.62
	Add Water Charges @ 1%				0.46
	TOTAL				46.08
	Add CPOH @ 15%				6.91
	Cost per bag of 50kg of cement				52.99
	Say				53.00

4.19 Providing and laying in position ready mixed plain cement concrete, using fly ash and cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Note : 1) Excess/less cement used than specified in this item is payable/ recoverable separately. 2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement is to be ensured in accordance with clauses 5.2 and 5.2.1 of IS: 456 -2000 in the items of BMC and RMC.

4.19.1 All works upto plinth level :

4.19.1.1 M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.370	1200.00	444.00
2203	Carriage of coarse sand	cum	0.370	106.49	39.40
1980	Fly ash	cum	0.210	8.00	1.68
2262	Carriage of flyash	cum	0.210	106.49	22.36
0367	Portland Cement	tonne	0.240	6300.00	1512.00
2209	Carriage of cement	tonne	0.240	94.65	22.72
7318	Plasticizer / super plasticizer	kilogram	1.200	38.00	45.60
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.000	150.00	150.00
	LABOUR:for pouring, consolidating and curing				
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	TOTAL				5056.29
	Add Water Charges @ 1%				50.56
	TOTAL				5106.85
	Add CPOH @ 15%				766.03
	Cost of 1 cum				5872.88
	Say				5872.90

4.19.1 All works upto plinth level :**4.19.1.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 1 cum</i>					
MATERIAL:					
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.370	1200.00	444.00
2203	Carriage of coarse sand	cum	0.370	106.49	39.40
1980	Fly ash	cum	0.210	8.00	1.68
2262	Carriage of flyash	cum	0.210	106.49	22.36
0367	Portland Cement	tonne	0.220	6300.00	1386.00
2209	Carriage of cement	tonne	0.220	94.65	20.82
7318	Plasticizer / super plasticizer	kilogram	1.100	38.00	41.80
Production cost, carriage to site, pumping to respective floors and laying in position.					
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.000	150.00	150.00
LABOUR:for pouring, consolidating and curing					
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
TOTAL					4924.59
Add Water Charges @ 1%					49.25
TOTAL					4973.84
Add CPOH @ 15%					746.08
Cost of 1 cum					5719.92
Say					5719.90

4.19.2 All works above plinth and upto floor V level :**4.19.2.1 M-15 grade plain cement concrete. (cement content considered @ 240 kg /cum)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 1 cum</i>					
MATERIAL:					
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.370	1200.00	444.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2203	Carriage of coarse sand	cum	0.370	106.49	39.40
1980	Fly ash	cum	0.210	8.00	1.68
2262	Carriage of flyash	cum	0.210	106.49	22.36
0367	Portland Cement	tonne	0.240	6300.00	1512.00
2209	Carriage of cement	tonne	0.240	94.65	22.72
7318	Plasticizer / super plasticizer	kilogram	1.200	38.00	45.60
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00
	LABOUR:for pouring, consolidating and curing				
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	Extra labour for lifting.material upto floor fivelevel = 0.75x2.50 = 1.88				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				5524.81
	Add Water Charges @ 1%				55.25
	TOTAL				5580.06
	Add CPOH @ 15%				837.01
	Cost of 1 cum				6417.07
	Say				6417.05

4.19.2 All works above plinth and upto floor V level :

4.19.2.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.370	1200.00	444.00
2203	Carriage of coarse sand	cum	0.370	106.49	39.40
1980	Fly ash	cum	0.210	8.00	1.68
2262	Carriage of flyash	cum	0.210	106.49	22.36
0367	Portland Cement	tonne	0.220	6300.00	1386.00
2209	Carriage of cement	tonne	0.220	94.65	20.82
7318	Plasticizer / super plasticizer	kilogram	1.100	38.00	41.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:for pouring, consolidating and curing				
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	Extra labour for lifting.material upto floor fivelevel = 0.75x2.50 = 1.88				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				5393.11
	Add Water Charges @ 1%				53.93
	TOTAL				5447.04
	Add CPOH @ 15%				817.06
	Cost of 1 cum				6264.10
	Say				6264.10

4.20 Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.Note : 1) Excess / less cement used than specified in this item is payable / recoverable separately.

4.20.1 All works upto plinth level :

4.20.1.1 M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.470	1200.00	564.00
2203	Carriage of coarse sand	cum	0.470	106.49	50.05
0367	Portland Cement	tonne	0.240	6300.00	1512.00
2209	Carriage of cement	tonne	0.240	94.65	22.72
7318	Plasticizer / super plasticizer	kilogram	1.200	38.00	45.60
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.000	150.00	150.00
	LABOUR:for pouring, consolidating and curing				
0155	Mason (average)	day	0.170	417.00	70.89

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	TOTAL				5162.90
	Add Water Charges @ 1%				51.63
	TOTAL				5214.53
	Add CPOH @ 15%				782.18
	Cost of 1 cum				5996.71
	Say				5996.70

4.20.1.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	106.49	25.56
0982	Coarse sand (zone III)	cum	0.47	1200.00	564.00
2203	Carriage of coarse sand	cum	0.47	106.49	50.05
0367	Portland Cement	tonne	0.22	6300.00	1386.00
2209	Carriage of cement	tonne	0.22	94.65	20.82
7318	Plasticizer / super plasticizer	kg	1.10	38.00	41.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	150.00	150.00
	LABOUR:for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	417.00	70.89
0114	Beldar	day	2.00	329.00	658.00
0101	Bhisti	day	0.90	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.07	350.00	24.50
9999	Sundries	L.S.	13.00	1.78	23.14
	TOTAL				5031.20
	Add Water Charges @ 1%				50.31
	TOTAL				5081.51
	Add CPOH @ 15%				762.23
	Cost of 1 cum				5843.74
	Say				5843.75

4.20.2 All works above plinth and upto floor V level :**4.20.2.1 M-15 grade plain cement concrete (cement content considered @ 240 kg /cum)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.470	1200.00	564.00
2203	Carriage of coarse sand	cum	0.470	106.49	50.05
0367	Portland Cement	tonne	0.240	6300.00	1512.00
2209	Carriage of cement	tonne	0.240	94.65	22.72
7318	Plasticizer / super plasticizer	kilogram	1.200	38.00	45.60
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00
	LABOUR:for pouring, consolidating and curing				
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	Extra labour for lifting.material upto floor five level = 0.75x2.50 = 1.88				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				5631.42
	Add Water Charges @ 1%				56.31
	TOTAL				5687.73
	Add CPOH @ 15%				853.16
	Cost of 1 cum				6540.89
	Say				6540.90

4.20.2 All works above plinth and upto floor V level :**4.20.2.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.470	1200.00	564.00
2203	Carriage of coarse sand	cum	0.470	106.49	50.05
0367	Portland Cement	tonne	0.220	6300.00	1386.00
2209	Carriage of cement	tonne	0.220	94.65	20.82
7318	Plasticizer / super plasticizer	kilogram	1.100	38.00	41.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00
	LABOUR:for pouring, consolidating and curing				
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	Extra labour for lifting.material upto floor fivelevel = $0.75 \times 2.50 = 1.88$				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				5499.72
	Add Water Charges @ 1%				55.00
	TOTAL				5554.72
	Add CPOH @ 15%				833.21
	Cost of 1 cum				6387.93
	Say				6387.95

SUB HEAD : 5.0

**REINFORCED
CEMENT CONCRETE**

5.1 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :

5.1.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.640	1175.00	752.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.210	1175.00	246.75
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.850	106.49	90.52
0982	Coarse sand (zone III)	cum	0.425	1200.00	510.00
2203	Carriage of coarse sand	cum	0.425	106.49	45.26
0367	Portland Cement (0.425 cum)	tonne	0.610	6300.00	3843.00
2209	Carriage of cement	tonne	0.610	94.65	57.74
	LABOUR:				
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	14.300	1.78	25.45
	TOTAL				6706.81
	Add Water Charges @ 1%				67.07
	TOTAL				6773.88
	Add CPOH @ 15%				1016.08
	Cost of 1 cum				7789.96
	Say				7789.95

5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.570	1175.00	669.75
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.280	1175.00	329.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.850	106.49	90.52
0982	Coarse sand (zone III)	cum	0.425	1200.00	510.00
2203	Carriage of coarse sand	cum	0.425	106.49	45.26
0367	Portland Cement (0.2833 cum)	tonne	0.400	6300.00	2520.00
2209	Carriage of cement	tonne	0.400	94.65	37.86
	LABOUR:				
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	14.300	1.78	25.45
	TOTAL				5363.93
	Add Water Charges @ 1%				53.64
	TOTAL				5417.57
	Add CPOH @ 15%				812.64
	Cost of 1 cum				6230.21
	Say				6230.20

5.1.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 1 cum</i>					
MATERIAL:					
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.670	1175.00	787.25
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.220	1175.00	258.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.890	106.49	94.78
0982	Coarse sand (zone III)	cum	0.445	1200.00	534.00
2203	Carriage of coarse sand	cum	0.445	106.49	47.39
0367	Portland Cement (0.2225 cum)	tonne	0.320	6300.00	2016.00
2209	Carriage of cement	tonne	0.320	94.65	30.29
LABOUR:					
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.070	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	14.300	1.78	25.45
TOTAL					4929.75
Add Water Charges @ 1%					49.30
TOTAL					4979.05
Add CPOH @ 15%					746.86
Cost of 1 cum					5725.91
Say					5725.90

5.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement :**5.2.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 9.18 cum</i>					
Counter fort Retaining wall 4.5m high and 6m long.					
Base- 1x6x1.5x0.2 = 1.80 cum.					
Heel - 1x6x0.3x0.2 = 0.36 cum.					
1x6x0.3x0.3 = 0.54 cum.					
Stem - 1x6x4.3x0.2 (Avg.) = 5.16 cum.					
Triangular counterfort - 2x1/2x4.4x1.5x0.2 = 1.32 cum.					
Total quantity for details of cost = 9.18 cum.					
MATERIAL:					
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	5.8752	1175.00	6903.36
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1.9278	1175.00	2265.16
2202	Carriage of stone aggregate below 40 mm nominal size	cum	7.803	106.49	830.94

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0982	Coarse sand (zone III)	cum	3.9015	1200.00	4681.80
2203	Carriage of coarse sand	cum	3.9015	106.49	415.47
0367	Portland Cement (0.425 cum)	tonne	5.5998	6300.00	35278.74
2209	Carriage of cement	tonne	5.5998	94.65	530.02
	LABOUR:				
0114	Beldar	day	11.290	329.00	3714.41
0115	Coolie	day	7.530	329.00	2477.37
0101	Bhisti	day	8.260	363.00	2998.38
0123	Mason (brick layer) 1 st class	day	0.920	435.00	400.20
0124	Mason (brick layer) 2nd class	day	0.920	399.00	367.08
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.640	800.00	512.00
0012	Vibrator (Needle type 40 mm)	day	0.640	350.00	224.00
9999	Sundries	L.S.	131.820	1.78	234.64
9999	Scaffolding	L.S.	420.030	1.78	747.65
	Extra labour for lifting of material upto floor V level: 0.75x9.18x2.5				
0115	Coolie	day	17.200	329.00	5658.80
	TOTAL				68240.02
	Add Water Charges @ 1%				682.40
	TOTAL				68922.42
	Add CPOH @ 15%				10338.36
	Cost of 9.18 cum				79260.78
	Cost of 1 cum				8634.07
	Say				8634.05

5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.18 cum.</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	5.2326	1175.00	6148.30
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	2.5704	1175.00	3020.22
2202	Carriage of stone aggregate below 40 mm nominal size	cum	7.803	106.49	830.94
0982	Coarse sand (zone III)	cum	3.9015	1200.00	4681.80
2203	Carriage of coarse sand	cum	3.9015	106.49	415.47
0367	Portland Cement (0.2833 cum)	tonne	3.672	6300.00	23133.60
2209	Carriage of cement	tonne	3.672	94.65	347.55
	LABOUR:				
0114	Beldar	day	11.290	329.00	3714.41
0115	Coolie	day	7.530	329.00	2477.37
0101	Bhisti	day	8.260	363.00	2998.38
0123	Mason (brick layer) 1 st class	day	0.920	435.00	400.20
0124	Mason (brick layer) 2nd class	day	0.920	399.00	367.08
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.640	800.00	512.00
0012	Vibrator (Needle type 40 mm)	day	0.640	350.00	224.00
9999	Sundries	L.S.	131.820	1.78	234.64

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding Extra labour for lifting of material upto floor V level: 0.75x9.18x2.5	L.S.	420.030	1.78	747.65
0115	Coolie	day	17.200	329.00	5658.80
	TOTAL				55912.41
	Add Water Charges @ 1%				559.12
	TOTAL				56471.53
	Add CPOH @ 15%				8470.73
	Cost of 9.18 cum				64942.26
	Cost of 1 cum				7074.32
	Say				7074.30

5.2.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.18 cum.</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	6.1506	1175.00	7226.96
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	2.0196	1175.00	2373.03
2202	Carriage of stone aggregate below 40 mm nominal size	cum	8.1702	106.49	870.04
0982	Coarse sand (zone III)	cum	4.0851	1200.00	4902.12
2203	Carriage of coarse sand	cum	4.0851	106.49	435.02
0367	Portland Cement (0.02225 cum)	tonne	2.9376	6300.00	18506.88
2209	Carriage of cement	tonne	2.9376	94.65	278.04
	LABOUR:				
0114	Beldar	day	11.290	329.00	3714.41
0115	Coolie	day	7.530	329.00	2477.37
0101	Bhisti	day	8.260	363.00	2998.38
0123	Mason (brick layer) 1 st class	day	0.920	435.00	400.20
0124	Mason (brick layer) 2nd class	day	0.920	399.00	367.08
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.640	800.00	512.00
0012	Vibrator (Needle type 40 mm)	day	0.640	350.00	224.00
9999	Sundries	L.S.	131.820	1.78	234.64
9999	Scaffolding Extra labour for lifting of material upto floor V level: 0.75x9.18x2.5	L.S.	420.030	1.78	747.65
0115	Coolie	day	17.200	329.00	5658.80
	TOTAL				51926.62
	Add Water Charges @ 1%				519.27
	TOTAL				52445.89
	Add CPOH @ 15%				7866.88
	Cost of 9.18 cum				60312.77
	Cost of 1 cum				6570.02
	Say				6570.00

5.3 Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.670	1175.00	787.25
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.220	1175.00	258.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.890	106.49	94.78
0982	Coarse sand (zone III)	cum	0.445	1200.00	534.00
2203	Carriage of coarse sand	cum	0.445	106.49	47.39
0367	Portland Cement (0.2225 cum)	tonne	0.320	6300.00	2016.00
2209	Carriage of cement	tonne	0.320	94.65	30.29
	LABOUR:				
0155	Mason (average)	day	0.240	417.00	100.08
0114	Beldar	day	2.750	329.00	904.75
0101	Bhisti	day	0.900	363.00	326.70
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.080	800.00	64.00
0012	Vibrator (Needle type 40 mm)	day	0.080	350.00	28.00
9999	Sundries	L.S.	14.300	1.78	25.45
	Extra labour for lifting material upto floor V level: Coolie (2.5x0.75)				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				5835.71
	Add Water Charges @ 1%				58.36
	TOTAL				5894.07
	Add CPOH @ 15%				884.11
	Cost of 1 cum				6778.18
	Say				6778.20

5.4 Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	Cement concrete 1:2:4				
4.4.1	Rate as per Item Number 4.4.1 of SH: Concrete work	cum	1.000	5466.30	5466.30
	A				
	LABOUR:				
	Extra labour for laying CC in RCC work				
0114	Beldar	day	0.100	329.00	32.90
0101	Bhisti	day	0.200	363.00	72.60

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0123	Mason (brick layer) 1 st class	day	0.040	435.00	17.40
0124	Mason (brick layer) 2nd class	day	0.040	399.00	15.96
0128	Mate	day	0.040	363.00	14.52
	Extra labour for lifting material upto floor V level: Coolie (1.5x0.75)				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				6238.20
	Add Water Charges @ 1% except on A i.e on (6,238.20 - 5,466.30 =) 771.90				7.72
	TOTAL				6245.92
	Add CPOH @ 15% except on A i.e on (6,245.92 - 5,466.30 =) 779.62				116.94
	Cost of 1 cum				6362.86
	Say				6362.85

5.5 Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 26.73cum for semicircular arch 6m clear span and 9m long and 30cm thick. Cement concrete 1:2:4 = 1x0.50x3.14x6.30x 9.00x0.30 = 26.73cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	17.9091	1175.00	21043.19
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	5.8806	1175.00	6909.70
2202	Carriage of stone aggregate below 40 mm nominal size	cum	23.7897	106.49	2533.37
0982	Coarse sand (zone III)	cum	11.8948	1200.00	14273.76
2203	Carriage of coarse sand	cum	11.8948	106.49	1266.68
0367	Portland Cement (0.2225 cum)	tonne	8.5536	6300.00	53887.68
2209	Carriage of cement	tonne	8.5536	94.65	809.60
	LABOUR:				
0155	Mason (average)	day	6.420	417.00	2677.14
0114	Beldar	day	73.510	329.00	24184.79
0101	Bhisti	day	24.060	363.00	8733.78
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	2.140	800.00	1712.00
0012	Vibrator (Needle type 40 mm)	day	2.140	350.00	749.00
9999	Sundries	L.S.	401.890	1.78	715.36
	Extra for laying CC over curved surfaces				
0123	Mason (brick layer) 1 st class	day	5.000	435.00	2175.00
0124	Mason (brick layer) 2nd class	day	5.000	399.00	1995.00
0101	Bhisti	day	1.500	363.00	544.50
0115	Coolie	day	4.500	329.00	1480.50
	Extra labour for lifting material upto floor V level: Coolie (1.50x0.75x26.73)				
0115	Coolie	day	50.120	329.00	16489.48
	TOTAL				162180.53
	Add Water Charges @ 1%				1621.81
	TOTAL				163802.34
	Add CPOH @ 15%				24570.35
	Cost of 26.73 cum				188372.69
	Cost of 1 cum				7047.24
	Say				7047.25

5.6 Reinforced cement concrete work in chimneys, shafts, up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	RCC 1:2:4 in chimneys & shafts				
5.2.3	Rate as per Item Number 5.2.3 of SH: Reinforced cement concrete work	cum	1.000	6570.00	6570.00A
	Extra labour involved for lifting materials				
0115	Coolie	day	0.260	329.00	85.54
	TOTAL				6655.54
	Add Water Charges @ 1% except on A i.e on (6,655.54 - 6,570.00 =) 85.54				0.86
	TOTAL				6656.40
	Add CPOH @ 15% except on A i.e on (6,656.40 - 6,570.00 =) 86.40				12.96
	Cost of 1 cum				6669.36
	Say				6669.35

5.7 Reinforced cement concrete work in well-steining excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	RCC 1:2:4 in well steining				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	1.000	5466.30	5466.30A
	LABOUR:				
	Extra labour involved				
0115	Coolie	day	0.080	329.00	26.32
	TOTAL				5492.62
	Add Water Charges @ 1% except on A i.e on (5,492.62 - 5,466.30 =) 26.32				0.26
	TOTAL				5492.88
	Add CPOH @ 15% except on A i.e on (5,492.88 - 5,466.30 =) 26.58				3.99
	Cost of 1 cum				5496.87
	Say				5496.85

5.8 Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4 RCC Vertical fins 4m high and 1m center with 2 horizontal fins, all projecting 60cm from face of wall and 5cm thick = 0.66 cum. Cement Concrete 1:1.5:3 4x4x0.60x0.05 = 0.48 cum 2x3x0.06x0.05 = 0.18 cum Total = 0.66 cum.</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.3762	1175.00	442.04
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.1848	1175.00	217.14
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.561	106.49	59.74

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0982	Coarse sand (zone III)	cum	0.2805	1200.00	336.60
2203	Carriage of coarse sand	cum	0.2805	106.49	29.87
0367	Portland Cement (0.2833 cum)	tonne	0.264	6300.00	1663.20
2209	Carriage of cement	tonne	0.264	94.65	24.99
	LABOUR:				
0114	Beldar	day	0.790	329.00	259.91
0115	Coolie	day	0.560	329.00	184.24
0101	Bhisti	day	0.600	363.00	217.80
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
9999	Scaffolding	L.S.	30.160	1.78	53.68
9999	Sundries	L.S.	9.490	1.78	16.89
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.050	800.00	40.00
0012	Vibrator (Needle type 40 mm)	day	0.050	350.00	17.50
	Extra for lifting materials upto floor five level				
0115	Coolie	day	0.180	329.00	59.22
	Extra for restricted working in fins				
0123	Mason (brick layer) 1 st class	day	0.050	435.00	21.75
0124	Mason (brick layer) 2nd class	day	0.050	399.00	19.95
0114	Beldar	day	0.100	329.00	32.90
0101	Bhisti	day	0.150	363.00	54.45
	TOTAL				3801.91
	Add Water Charges @ 1%				38.02
	TOTAL				3839.93
	Add CPOH @ 15%				575.99
	Cost of 0.66 cum				4415.92
	Cost of 1 cum				6690.79
	Say				6690.80

5.9 Centering and shuttering including strutting, propping etc. and removal of form for :

5.9.1 Foundations, footings, bases of columns, etc. for mass concrete

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for footing size 2.7mx2.7mx 1.00m</i>				
	<i>Contact area = 10.8 sqm</i>				
	MATERIAL:				
	Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm	each	0.340	1050.00	357.00
	Qty taken for cost of using once = 16x0.85/40 = 0.34				
7326	Corner angle 45x45x5 mm 1.50 m long	each	0.085	300.00	25.50
	Qty taken for cost of using once = 4x0.85/40 = 0.085				
7327	100 mm channel shoulder 2.5 m long	each	0.170	1160.00	197.20
	Qty taken for cost of using once = 8x0.85/40 = 0.17				
7328	Double clip (bridge clip)	each	0.340	97.00	32.98
	Qty taken for cost of using once = 16x0.85/40 = 0.34				
7329	Single clip	each	0.170	77.00	13.09
	Qty taken for cost of using once = 8x0.85/40 = 0.17				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7330	M.S. tube 40 mm dia Qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$	metre	0.2295	280.00	64.26
9999	Assembly nuts & bolts Qty taken for cost of using once $= 1040 \times 0.85 / 40 = 22.10$	L.S.	22.100	1.78	39.34
9999	Carriage LABOUR:	L.S.	78.000	1.78	138.84
0116	Fitter (grade 1)	day	0.750	435.00	326.25
0114	Beldar	day	1.500	329.00	493.50
9999	Shuttering oil	L.S.	52.000	1.78	92.56
9999	Sundries	L.S.	26.000	1.78	46.28
	TOTAL				1826.80
	Add Water Charges @ 1%				18.27
	TOTAL				1845.07
	Add CPOH @ 15%				276.76
	Cost of 10.8 sqm				2121.83
	Cost of 1 sqm				196.47
	Say				196.45

5.9.2 Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Details for 7.9m long and 1,00m high wall Area of contact $2 \times 7.9 \times 1.0 = 15.8$ sqm.</i>				
	MATERIAL:				
	Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm $2 \times 3 \times 2 \times 2 = 24$ Nos. Qty taken for cost of using once $= 24 \times 0.85 / 40 = 0.51$	each	0.510	1050.00	535.50
7327	100 mm channel shoulder 2.5 m long $4 \times 2 = 8$ Qty taken for cost of using once $= 8 \times 0.85 / 40 = 0.17$	each	0.170	1160.00	197.20
7328	Double clip (bridge clip) $2 \times 6 \times 2 = 24$ Qty taken for cost of using once $= 24 \times 0.85 / 40 = 0.51$	each	0.510	97.00	49.47
7329	Single clip $2 \times 3 \times 2 = 12$ Qty taken for cost of using once $= 12 \times 0.85 / 40 = 0.255$	each	0.255	77.00	19.64
7330	M.S. tube 40 mm dia $2 \times 2 \times 8 \text{m} = 32 \text{m}$ Qty taken for cost of using once $= 32 \times 0.85 / 40 = 0.68$	metre	0.680	280.00	190.40
9999	Nut & Bolts Qty taken for cost of using once $= 1300 \times 0.85 / 40 = 27.62$	L.S.	27.620	1.78	49.16
9999	Carriage LABOUR:	L.S.	78.000	1.78	138.84
0116	Fitter (grade 1)	day	3.500	435.00	1522.50
0114	Beldar	day	6.000	329.00	1974.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Shuttering oil	L.S.	78.000	1.78	138.84
9999	Sundries	L.S.	52.000	1.78	92.56
	TOTAL				4908.11
	Add Water Charges @ 1%				49.08
	TOTAL				4957.19
	Add CPOH @ 15%				743.58
	Cost of 15.8 sqm				5700.77
	Cost of 1 sqm				360.81
	Say				360.80

5.9.3 Suspended floors, roofs, landings, balconies and access platform

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a room 4.50x3 = 13.50 sqm, height 3.5 m MATERIAL: Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost 1. Plates (size 0.75x0.60) Angle 40x40x5mm 2x0.75= 1.50 m 2x0.60= 1.20 m = 2.70 m @ 3.00 kg/m = 8.10 kg sheet 1.6 mm thick 0.75x0.60 = 0.45 sqm 0.45 sqm @ 12.55kg/sqm = 5.65kg Weight of one plate = 13.75kg Add for wastage @ 5% = 0.69 kg Total = 14.44kg Total weight of all plates = 5x6x14.44 = 433.20 kg. Qty taken for cost using once = 433.2x0.85/40 = 9.2055 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	9.2055	67.70	623.21A
7342	Adjustable span ESO+SI (2.35-3.40)	each	0.1063	1900.00	201.97
	Qty taken for cost using once = 5x0.85/40 = 0.1063				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	1200.00	153.00
	Qty taken for cost using once = 6x0.85/40 = 0.1275				
9999	Assembly nut & bolts etc.	L.S.	22.100	1.78	39.34
	Qty taken for cost using once = 1040x0.85/40 = 22.10				
9999	Carriage	L.S.	130.000	1.78	231.40
	LABOUR:				
0116	Fitter (grade 1)	day	3.000	435.00	1305.00
0114	Beldar	day	6.000	329.00	1974.00
9999	Shuttering oil	L.S.	78.000	1.78	138.84
9999	Sundries, paper tape etc	L.S.	49.700	1.78	88.47
	TOTAL				4755.23
	Add Water Charges @ 1% except on A i.e on (4,755.23 - 623.21 =) 4,132.02				41.32
	TOTAL				4796.55
	Add CPOH @ 15% except on A i.e on (4,796.55 - 623.21 =) 4,173.34				626.00
	Cost of 13.5 sqm				5422.55
	Cost of 1 sqm				401.67
	Say				401.65

5.9.4 Shelves (Cast in situ)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a room 4.50x3 = 13.50 sqm, height 3.5 m MATERIAL: Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost 1. Plates (size 0.75 x 0.60) Angle 40x40x5mm 2x0.75= 1.50 m 2x0.60 = 1.20 m = 2.70 m @ 3.00 kg/m = 8.1 kg sheet 1.6 mm thick 0.75x0.60 = 0.45 sqm0.45 sqm @ 12.55kg/sqm = 5.65kg Weight of one plate = 13.75kg Add for wastage @ 5% = 0.69 kg Total = 14.44kg Total weight of all plates = 5x6x14.44 = 433.20 kg. Qty taken for cost using once = 433.2x0.85/40 = 9.2055 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	9.2055	67.70	623.21A
7342	Adjustable span ESO+SI (2.35-3.40)	each	0.1063	1900.00	201.97
	Qty taken for cost using once = 5x0.85/40 = 0.1063				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	1200.00	153.00
	Qty taken for cost using once = 6x0.85/40 = 0.1275				
9999	Assembly nut & bolts etc.	L.S.	22.100	1.78	39.34
	Qty taken for cost using once = 1040x0.85/40 = 22.10				
9999	Carriage	L.S.	130.000	1.78	231.40
	LABOUR:				
0116	Fitter (grade 1)	day	3.000	435.00	1305.00
0114	Beldar	day	6.000	329.00	1974.00
9999	Shuttering oil	L.S.	78.000	1.78	138.84
9999	Sundries, paper tape etc	L.S.	49.700	1.78	88.47
	TOTAL				4755.23
	Add Water Charges @ 1% except on A i.e on (4,755.23 - 623.21 =) 4,132.02				41.32
	TOTAL				4796.55
	Add CPOH @ 15% except on A i.e on (4,796.55 - 623.21 =) 4,173.34				626.00
	Cost of 13.5 sqm				5422.55
	Cost of 1 sqm				401.67
	Say				401.65

5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a beam of 6 m clear span, 0.50 m deep 0.30 m wide and height 3.5 m from floor Cubical contents 6.60x0.5x0.3 = 0.99 cum 1x1.30x6.00 = 7.80 sqm MATERIAL: Assuming shuttering will become unserviceable after use of 40 times Add maintenance charges @ 10% of cost of material Less salvage value of material after full use				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	@ 25% of cost of material				
	1. Steel plates for side and bottom (plate size 1.20 x 0.50m)				
	Angle 40x40x5mm				
	2x1.20 = 2.40 m				
	3x0.50= 1.50 m				
	Total 3.90 m @ 3.00 kg/m = 11.70 kg				
	sheet 1.6 mm thick 1.20m x 0.50 m= 0.60 sqm.				
	0.60 sqm @ 12.55 kg/sqm. = 7.53 kg				
	.Weight of one plate = 19.23 kg.				
	Add for wastage 5% 0.96 kg.				
	TOTAL=20.19 kg.				
	Total weight of all plates				
	3x5x20.19 = 302.85 kg				
	Qty taken for cost of using once = 302.85 x 85/40 = 6.4356 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	6.4356	67.70	435.69A
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	1200.00	153.00
	Qty taken for cost of using once = 6x0.85/40 = 0.1275 m				
7344	Beam clamp 300-380 mm (450-1070 mm)	each set	0.1063	422.00	44.86
	Qty taken for cost of using once = 5/0.85/40 = 0.1063 m				
9999	Assembly nut & bolts etc.	L.S.	22.100	1.78	39.34
	Qty taken for cost of using once = 1040x0.85/40 = 22.10				
9999	Carriage	L.S.	78.000	1.78	138.84
	LABOUR:				
0116	Fitter (grade 1)	day	1.250	435.00	543.75
0114	Beldar	day	2.500	329.00	822.50
9999	Shuttering oil	L.S.	39.000	1.78	69.42
9999	Sundries, paper tape etc	L.S.	24.610	1.78	43.81
	TOTAL				2291.21
	Add Water Charges @ 1% except on A i.e on (2,291.21 - 435.69 =) 1,855.52				18.56
	TOTAL				2309.77
	Add CPOH @ 15% except on A i.e on (2,309.77 - 435.69 =) 1,874.08				281.11
	Cost of 7.8 sqm				2590.88
	Cost of 1 sqm				332.16
	Say				332.15

5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 4.5 sqm. Size of column 450x450mm and 2.5m high Area of contact = 4x0.45x2.5 = 4.5 sqm				
	MATERIAL:				
	Assuming shuttering will become unserviceable after use of 40 times				
	Add maintenance charges @ 10% of cost of material				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Less salvage value of material after full use @ 25% of cost of material				
7331	Wall form panel 1250x450 mm Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.170	1040.00	176.80
7332	Corner angle 45x45x5 mm 2.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	340.00	28.90
7333	Column clamp 450x1070 mm Qty taken for cost of using once = $5 \times 0.85 / 40 = 0.1063$	each	0.1063	1220.00	129.69
7334	Prop 2 m (2-3.5 m) Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	830.00	70.55
9999	Assembly nut & bolts etc. Qty taken for cost of using once = $1300 \times 0.85 / 40 = 27.62$	L.S.	27.620	1.78	49.16
9999	Carriage LABOUR:	L.S.	52.000	1.78	92.56
0116	Fitter (grade 1)	day	1.000	435.00	435.00
0114	Beldar	day	2.000	329.00	658.00
9999	Shuttering oil	L.S.	39.000	1.78	69.42
9999	Carriage	L.S.	26.000	1.78	46.28
	TOTAL				1756.36
	Add Water Charges @ 1%				17.56
	TOTAL				1773.92
	Add CPOH @ 15%				266.09
	Cost of 4.5 sqm				2040.01
	Cost of 1 sqm				453.34
	Say				453.35

5.9.7 Stairs, (excluding landings) except spiral-staircases

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5.79 sqm. Details of staircase, 3.40m clear span including 1 m landing</i>				
	MATERIAL:				
	(i) Cost of plank 38mm (2nd class kail wood) Waist $2.69 \times 1.30 = 3.50$ sqm. Side shuttering of steps and side of waist- Steps = $8 \times 1.30 \times 1.15 = 1.56$ sqm Face of landing $1 \times 1.30 \times 0.15 = 0.20$ sqm. Side of waist $2.69 \times 0.13 = 0.35$ sqm. Side of steps- $8 \times 0.50 \times 0.30 \times 0.15 = 0.18$ sqm. Total = 5.79 sqm. Wastage 5% = 0.29sqm. Total = 6.08 sq. Cubical content- $6.08 \times 0.038 = 0.231$ cum = 231 cudm Qty taken for cost using once = $231 / 8 = 28.875$ cudm				
1198	Second class kail wood in planks	10 cudm	28.875	260.00	750.75
	(ii) Batten 100mm x 75mm $4 \times 1.30 \times 0.100 \times 0.075 = 0.039$ cum = 39 cudm Qty taken for cost using once = $39 / 8 = 4.875$ cudm				
1197	Second class kail wood in scantling $2 \times 4 \times 0.80 = 6.40$ m Qty taken for cost using once = $6.4 / 8 = 0.8$ m	10 cudm	4.875	260.00	126.75

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0302	Safeda ballies 125 mm diameter Planks = 0.231 cum. Battens = 0.039 cum. Ballies $6.4 \times 3.142 / 4 \times (0.125)^2 = 0.079 \text{ cum.}$ Total = 0.349 cum. Qty taken for cost using once = $0.349 / 8$ = 0.04363 cum	metre	0.800	42.00	33.60
2204	Carriage of timber LABOUR: For assembling, erection, dismantling and cleaning	cum	0.04363	121.70	5.31
0112	Carpenter 2nd class	day	1.750	399.00	698.25
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries	L.S.	16.120	1.78	28.69
	TOTAL				1972.35
	Add Water Charges @ 1%				19.72
	TOTAL				1992.07
	Add CPOH @ 15%				298.81
	Cost of 5.79 sqm				2290.88
	Cost of 1 sqm				395.66
	Say				395.65

5.9.8 Spiral staircases (including landing)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6.28 sqm (For 10 steps)</i> Treads $10 \times 0.70 \times 0.20 (\text{av.}) = 1.40 \text{ sqm}$				
5.9.5	Rate as per Item Number 5.9.5 of SH: Reinforced cement concrete work	sqm	1.400	332.15	465.01A
	Riser $2 \times 10 \times 0.70 \times 0.23 = 3.22 \text{ sqm}$				
5.9.2	Rate as per Item Number 5.9.2 of SH: Reinforced cement concrete work	sqm	3.220	360.80	1161.78A
	Newal Post (Column) $10 \times 3.14 \times 0.232 = 1.66 \text{ sqm}$				
5.9.7	Rate as per Item Number 5.9.7 of SH: Reinforced cement concrete work	sqm	1.660	395.65	656.78A
	TOTAL				2283.57
	Cost of 6.28 sqm				2283.57
	Cost of 1 sqm				363.63
	Say				363.65

5.9.9 Arches, domes, vaults up to 6 m span

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a semicircular arch 3.6m clear span and 3.6m long. Area of centering</i> = $22 \times 1.8 \times 3.6 = 20.37 \text{ sqm}$				
	MATERIAL: Frame work in 2nd class kail wood Tie- $1 \times 3.6 \times 0.15 \times 0.20 = 0.108 \text{ cum.}$ Struts- $3 \times 1.8 \times 0.10 \times 0.10 = 0.054 \text{ cum}$ Struts- $2 \times 2.55 \times 0.10 \times 0.10 = 0.051 \text{ cum.}$ Ribs- $4 \times 1.38 \times 0.075 \times 0.075 = 0.031 \text{ cum.}$ Total = 0.244 cum. Quantity for 7 such frames $7 \times 0.244 = 1.708 \text{ cum.}$ Strips $5 \text{ cm} \times 2.5 \text{ cm} = 7.5 \text{ cm}$ center to center $5.66 / 0.075 \times 0.05 \times 0.025 \times 3.6 = 0.342 \text{ cum.}$ Total = 2.050 cum = 2050 cudm Qty taken for cost using once = $2050 / 8 =$				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1197	256.25 cudm				
0302	Second class kail wood in scantling	10 cudm	256.250	260.00	6662.50
	Safeda ballies 125 mm diameter	metre	12.600	42.00	529.20
	7x4x3.6= 100.8m				
	Qty taken for cost using once = 100.8/8 = 12.6				
0992	Galvanised steel plain sheets	quintal	0.145	5350.00	775.75
	20.37 sqm = 116kg. Or 1.16 quintal				
	Qty taken for cost using once = 1.16/8 = 0.145 qtl				
	CARRIAGE:				
	Kail wood = 2.05cum.Bailies- 100.8x(.125)				
	2/4x3.142 = 1.24cum. Total = 3.29 cum.-				
	Qty taken for cost using once = 3.29/8 = 0.4112 cum				
2204	Carriage of timber	cum	0.4112	121.70	50.04
	G.I. Sheet = 0.116 tQty taken for cost using				
	once = 0.116/8 = 0.0145 t				
2302	Carriage of G.I.sheet and accessories	tonne	0.0145	94.65	1.37
	LABOUR:				
0112	Carpenter 2nd class	day	16.000	399.00	6384.00
0114	Beldar	day	13.000	329.00	4277.00
9999	Sundries	L.S.	11.700	1.78	20.83
	TOTAL				18700.69
	Add Water Charges @ 1%				187.01
	TOTAL				18887.70
	Add CPOH @ 15%				2833.16
	Cost of 20.37 sqm				21720.86
	Cost of 1 sqm				1066.32
	Say				1066.30

5.9.10 Extra for arches, domes, vaults exceeding 6 m span

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 33.31 sqm</i>				
	Centering and shuttering for arches and carved				
	surface exceeding 6m in span (an average of 8m)				
	Radius R = 5m				
	2R-2=4+4				
	tan-1 (4/3) = 53.28°				
	2x53.28°= 106°				
	Surface area				
	=2x22/7x5x3.6x106/360=33.31 sqm.				
	Arc=9.25m				
	MATERIAL:				
	Tie-2x8x 0.18x0.05 =0.144cum				
	Struts-2x2.5x0.1x0.1 =0.050cum.				
	Struts-2x1 .77x0.1 x0. 1 =0.035cum.				
	Ribs-6x 1.54x0.23x0.1 =0.213cum.				
	Struts-2x 1.72x0.1 x0. 1 =0.034cum.				
	Total=0.476cum.				
	For four such frames =0.476x4= 1.904 cum.				
	laggings-75x3.6x0.125x0.075=2.531cum.				
	Tie-2x3.6x0.225x0.038=0.062cum.				
	Brace-3x2x2.14x0.225x0.038=0.110cum				
	Brace-3x4x3.8x0.225x0.038=0.390 cum				
	Sleepers-4x3.6x0.20x0.15=0.432 cum				
	Sleepers-2x4x3.6x0. 175x0.075=0.378				
	Vertical post-4x4x-3.6x0.15x0.15=1.296				
	Total =7.103cum. or 7103 cudm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Qty taken 1/8th of qty for cost using once =7.103/8 = cum = 887.9 Cudm				
1197	Second class kail wood in scantling	10 cudm	887.900	260.00	23085.40
2204	Carriage of timber	cum	0.8879	121.70	108.06
	Fittings: 3 way straps 50mmx10mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmx10mm = 8 Nos. @0.25cm each = 2m = 18m 18m, wt @ 3.9kg/m = 70.2 kg. = 0.702q Qty taken 1/8th of qty for cost using once = 0.702/8 = 0.08775				
1225	Mild steel flat strap fitting	quintal	0.0878	5000.00	439.00
	Bolts 160 Nos. 254 mm long 16mm dia.- 160x.254x 1.58=64.21 kg=0.64q. Qty taken 1/8th of qty for cost using once =0.64/8 = 0.08				
1034	Bolts and nuts up to 300 mm in length	quintal	0.080	5600.00	448.00
2302	Carriage of G.I.sheet and accessories	tonne	0.0168	94.65	1.59
	0.1342t Qty taken 1/8th of qty for cost using once =0.1342/8 = 0.01677 cum LABOUR:				
0112	Carpenter 2nd class	day	28.000	399.00	11172.00
0114	Beldar	day	24.000	329.00	7896.00
9999	Sundries	L.S.	134.550	1.78	239.50
	Less cost of shuttering etc. for an arch exceeding 6m span i.e. for an average of 8m span				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	-33.310	1066.30	-35518.45A
	TOTAL				7871.10
	Add Water Charges @ 1% except on A i.e on (7,871.10 - -35,518.45 =) 43,389.55				433.90
	TOTAL				8305.00
	Add CPOH @ 15% except on A i.e on (8,305.00 - -35,518.45 =) 43,823.45				6573.52
	Cost of 33.31 sqm				14878.52
	Cost of 1 sqm				446.67
	Say				446.65

5.9.11 Chimneys and shafts

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 7.9m long and 1.00m high wall Area of contact 2x7.9x1.0 = 15.8 sqm MATERIAL: Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm	each	0.510	1050.00	535.50
	2x3x2x2 = 24 Nos. Qty taken for cost of using once = 24x0.85/40 = 0.51				
7327	100 mm channel shoulder 2.5 m long	each	0.170	1160.00	197.20
	4x2 = 8 Qty taken for cost of using once = 8x0.85/40= 0.17				
7328	Double clip (bridge clip)	each	0.510	97.00	49.47

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	2x6x2 = 24 Qty taken for cost of using once = 24x0.85/40= 0.51				
7329	Single clip	each	0.255	77.00	19.64
	2x3x2 = 12 Qty taken for cost of using once = 12x0.85/40= 0.255				
7330	M.S. tube 40 mm dia	metre	0.680	280.00	190.40
	2x2x8m = 32m Qty taken for cost of using once = 32x0.85/40= 0.68				
9999	Nut & Bolts	L.S.	27.630	1.78	49.18
	Qty taken for cost of using once =1300x0.85/40 = 27.63				
9999	Carriage	L.S.	78.000	1.78	138.84
	LABOUR:				
0116	Fitter (grade 1)	day	3.500	435.00	1522.50
0114	Beldar	day	6.000	329.00	1974.00
9999	Shuttering oil	L.S.	78.000	1.78	138.84
9999	Sundries	L.S.	52.000	1.78	92.56
	TOTAL				4908.13
	Add Water Charges @ 1%				49.08
	TOTAL				4957.21
	Add CPOH @ 15%				743.58
	Cost of 15.8 sqm				5700.79
	Cost of 1 sqm				360.81
	Say				360.80

5.9.12 Well steining

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 26.39 sqm.</i>				
	Surface area				
	Outside area =22/7x4.40x1.00 - 13.82sqm =				
	26.39 sqm				
	MATERIAL:				
	Assuming that the timber will become				
	unservicable after being used 8 times Planks				
	38 mm (Second class kail wood)				
	26.39x0.038= 1.00cum.				
	Wastage 20% = 0.20cum.				
	Total = 1.20cum. or 1200 cudm.				
	Qty for cost using once = 1200/8=150 cudm				
1198	Second class kail wood in planks	10 cudm	150.000	260.00	3900.00P
	2nd class kail wood battensInside				
	= 2x25x0.50x0.075x0.038 = 0.0712cum.				
	Outside = 2x28x0.50x0.075x0.038 = 0.0798cum				
	Total = 0.1510cum.				
	Wastage 5% = 0.0076 cum = 0.1586cum. or				
	158.60 cudm				
	Qty for cost using once = 0.1586/8= 0.0198 cudm				
1197	Second class kail wood in scantling	10 cudm	0.0198	260.00	0.51Q
0302	Safeda ballies 125 mm diameter	metre	6.625	42.00	278.25R
	Inside: 25x1.00 = 25.00m				
	Outside: 28x1.00 = 28.00m				
	Total = 53.00m				
	Qty for cost using once = 53/8 =6.625 m				
	Add for carriage, labour for erection and				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	dismantling etc. @ 1/6th of the cost of material (P + Q + R) / 6 = (3900.00 + 0.51 + 278.25) / 6				696.46
	TOTAL				4875.22
	Add Water Charges @ 1%				48.75
	TOTAL				4923.97
	Add CPOH @ 15%				738.60
	Cost of 26.39 sqm				5662.57
	Cost of 1 sqm				214.57
	Say				214.55

5.9.13 Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for fins 4 vertical fins 4 metre high and at 1 metre centres, with two horizontal fins all projecting 60cm from face of wall and 5 cm thick- i.e. 4x4x1.215+2x3x0.65=23.90 sqm</i>				
	MATERIAL:				
1198	Second class kail wood in planks 38mm thick- 4x4x1.25=20.00 2x3x0.65 =3.90 Total = 23.90 Wastage @ 5% = 1.20 Total = 25.10sqm. 25.10x0.038=.954 cum or 954 cudm Qty for cost using once = 954/8 = 119.25 cudm	10 cudm	119.250	260.00	3100.50
1197	Second class kail wood in scantling 4x2x5x0.60x0.075x0.050=0.090 3x2x5x1.00x0.075x0.050=0.112 2x6x0.60x0.075x0.100=0.054 = 0.256 Cum. Wastage @ 5% =0.013 cum = 0.269 cum= 269 cudm Qty for cost using once = 269/8 = 33.625 cudm	10 cudm	33.625	260.00	874.25
0302	Safeda ballies 125 mm diameter 2x2x6x4.00 =96m Wastage @5% = 4.8m Total= 100.8 m Qty for cost using once = 100.8/8 = 12.6 m	metre	12.600	42.00	529.20
2204	Carriage of timber Planks = 0.954 Battens = 0.269 Bailies 100.8x(.125)2/4x3.142=1.238cum. Total = 2.461 cum Qty for cost using once = 2.461/8 = 0.3076 cum	cum	0.3076	121.70	37.43
	LABOUR:				
0112	For assembling, erection, dismantling and cleaning				
0114	Carpenter 2nd class	day	11.000	399.00	4389.00
0114	Beldar	day	11.000	329.00	3619.00
9999	Sundries	L.S.	80.730	1.78	143.70
	TOTAL				12693.08
	Add Water Charges @ 1%				126.93
	TOTAL				12820.01
	Add CPOH @ 15%				1923.00
	Cost of 25.1 sqm				14743.01
	Cost of 1 sqm				587.37
	Say				587.35

5.9.14 Extra for shuttering in circular work (20% of respective centering and shuttering items)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for</i>				
	Extra for shuttering in circular work 20% of respective centring and shuttering				
	1 * 20 = 1 * 20				20.00
	Cost of 1 sqm				20.00
	Say				20.00

5.9.15 Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for footing size 2.7mx2.7mx1.00m</i>				
	Contact area = 10.8 sqm				
	MATERIAL:				
	Assuming shuttering material will become unserviceable after use of 40 times				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm Qty taken for cost of using once = $16 \times 0.85 / 40$ = 0.34	each	0.340	1050.00	357.00
7326	Corner angle 45x45x5 mm 1.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40$ = 0.085	each	0.085	300.00	25.50
7327	100 mm channel shoulder 2.5 m long Qty taken for cost of using once = $8 \times 0.85 / 40$ = 0.17	each	0.170	1160.00	197.20
7328	Double clip (bridge clip) Qty taken for cost of using once = $16 \times 0.85 / 40$ = 0.34	each	0.340	97.00	32.98
7329	Single clip Qty taken for cost of using once = $8 \times 0.85 / 40$ = 0.17	each	0.170	77.00	13.09
7330	M.S. tube 40 mm dia $4 \times 2.7 \text{ m} = 10.8 \text{ m}$ Qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$	metre	0.2295	280.00	64.26
9999	Assembly nut & bolts etc. Qty taken for cost of using once = $1040 \times 0.85 / 40$ = 22.10	L.S.	22.100	1.78	39.34
9999	Carriage LABOUR:	L.S.	78.000	1.78	138.84
0116	Fitter (grade 1)	day	0.750	435.00	326.25
0114	Beldar	day	1.500	329.00	493.50
9999	Shuttering oil	L.S.	52.000	1.78	92.56
9999	Sundries	L.S.	26.000	1.78	46.28
	TOTAL				1826.80
	Add Water Charges @ 1%				18.27
	TOTAL				1845.07
	Add CPOH @ 15%				276.76
	Cost of 10.8 sqm				2121.83
	Cost of 1 sqm				196.47
	Say				196.45

5.9.16 Edges of slabs and breaks in floors and walls**5.9.16.1 Under 20 cm wide**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a 3mx3m slab 15cms thick 12m edge Length</i>				
	MATERIAL:				
	Assuming that the timber will become unserviceable after being used 8 times				
1198	Second class kail wood in planks	10 cudm	7.125	260.00	185.25
	(i) Planks 30mm thick (2nd class Kail wood or equivalent local soft wood) $4 \times 3 \times 0.15 \times 0.030 = 0.054 \text{ cum}$ Wastage @5% = 0.003 cum. Total = 0.057 cum 57 cudm Qty taken for cost of using once = $57/8 = 7.125 \text{ cudm}$				
1197	Second class kail wood in scantling	10 cudm	19.375	260.00	503.75
	(ii) Battens 75mmx100mm (2nd class Kail wood) Horizontal $2 \times 4 \times 0.075 \times 0.1 \times 0.5 = 0.030$ Horizontal $2 \times 4 \times 0.075 \times 0.1 \times 1.5 = 0.090$ (iii) Vertical battens $16 \times 0.15 \times 0.075 \times 0.030 \text{ M} = 0.0054$ (iv) Struts $16 \times 0.25 \times 0.075 \times 0.075 = 0.0225$ Total = 0.1479 Wastage @5% = 0.0074 Total = 0.1553 cum = 155 cudm Qty taken for cost of using once = $155/8 = 19.375 \text{ cudm}$				
2204	Carriage of timber	cum	0.0265	121.70	3.23
	Planks = 0.057 cum. Battens = 0.155 cum. Total = 0.212 cum. Qty taken for cost of using once = $0.212/8 = 0.0265 \text{ cum}$				
	LABOUR:				
	For assembling erection dismantling & cleaning				
0112	Carpenter 2nd class	day	0.810	399.00	323.19
0114	Beldar	day	0.540	329.00	177.66
9999	Sundries	L.S.	5.200	1.78	9.26
	TOTAL				1202.34
	Add Water Charges @ 1%				12.02
	TOTAL				1214.36
	Add CPOH @ 15%				182.15
	Cost of 12 metre				1396.51
	Cost of 1 metre				116.38
	Say				116.40

5.9.16.2 Above 20 cm wide

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4mx4xslab 25cms thick 16 metre edge lengthShuttering surface area = $16 \times 0.25 = 4 \text{ sqm}$</i>				
	MATERIAL:				
1198	Second class kail wood in planks 38mm thick $4 \times 4 \times 0.25 \times 0.038 = 0.152$ Wastage @ 5% = 0.008 Total = 0.160 cum. = 160 cudm Qty taken for cost of using once = $160/8$ = 20 cudm	10 cudm	20.000	260.00	520.00
1197	Second class kail wood in scantling (ii) Battens $6 \times 2 \times 0.60 \times 0.075 \times 0.100 = 0.054$ $5 \times 2 \times 1.5 \times 0.075 \times 0.100 = 0.113$ Total = 0.167 Wastage @ 5% = 0.008 Total = 0.175 cum. = 175 cudm Qty taken for cost of using once = $175/8$ = 21.88 cudm	10 cudm	21.880	260.00	568.88
2204	Carriage of timber Planks = 0.16 cum. Battens = 0.175 cum. Total = 0.335 cum. Qty taken for cost of using once = $0.335/8$ = 0.0419 cum	cum	0.0419	121.70	5.10
	LABOUR:				
	For assembling erection dismantling & cleaning				
0112	Carpenter 2nd class	day	1.000	399.00	399.00
0114	Beldar	day	0.750	329.00	246.75
9999	Sundries	L.S.	6.500	1.78	11.57
	TOTAL				1751.30
	Add Water Charges @ 1%				17.51
	TOTAL				1768.81
	Add CPOH @ 15%				265.32
	Cost of 4 sqm				2034.13
	Cost of 1 sqm				508.53
	Say				508.55

5.9.17 Cornices and mouldings

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10m long moulding 10cm projection, 20cm depth and 40cm girth Area in contact $10 \times 0.40 = 4.00 \text{ sqm}$</i>				
	MATERIAL:				
	Assuming that the timber will become unserviceable after being used 8 times				
1198	Second class kail wood in planks (i) Planking 30mm thick = 4sqm. Extra & Wastage 20% = 0.8 sqm. Total = 4.8 sqm. $4.8 \times 0.038 = 0.182 \text{ cum} = 182 \text{ cudm}$	10 cudm	22.750	260.00	591.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1197	Qty taken for cost using once = $182/8 = 22.75$ cudm Second class kail wood in scantling (ii) Battens-Joining to Planking $1 \times 10 \times 0.1 \times 0.075 = 0.075$ cum. From bottom shuttering $10 \times 1.5 \times 0.1 \times 0.075 = 0.113$ cum. Walls $10 \times 0.4 \times 0.1 \times 0.075 = 0.030$ cum. Total = 0.218 cum = 218 cudm Qty taken for cost using once = $218/8 = 27.25$ cudm	10 cudm	27.250	260.00	708.50
2447	Hollock ballies 125 mm diameter (iii) Bailies 125 mm dia. Slant $10 \times 0.3 = 3.00$ m Verticals $6 \times 3.5 = 21.00$ m Total = 24.00 m Wastage @ 5% = 1.20 m Total = 25.20 m Qty taken for cost using once = $25.2/8 = 3.15$ m	metre	3.150	35.00	110.25
2204	Carriage of timber Planking = 0.188 cum. Battens & Wales = 0.218 cum. Bailies $25.2 \times 22/7 \times (0.125)^2/4 = 0.310$ cum. Total = 0.710 cum. Qty taken for cost using once = $0.71/8 = 0.0888$ cum LABOUR: Labour for assembling, erection, dismantling & cleaning	cum	0.0888	121.70	10.81
0112	Carpenter 2nd class	day	0.630	399.00	251.37
0114	Beldar	day	0.630	329.00	207.27
9999	Sundries	L.S.	6.500	1.78	11.57
	TOTAL				1891.27
	Add Water Charges @ 1%				18.91
	TOTAL				1910.18
	Add CPOH @ 15%				286.53
	Cost of 4 sqm				2196.71
	Cost of 1 sqm				549.18
	Say				549.20

5.9.18 Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for a bracket 1.20m projected</i> <i>Front area 0.50×0.60 m End area 0.50×0.75 m</i> <i>Area in contact with concrete $2 \times \{(0.60 + 0.75)/2 \times 1.2\}$</i> <i>= 1.62 sqm Front $0.5 \times 0.6 = 0.30$ sqm.</i> <i>Bottom $0.5 \times 1.21 = 0.605$ sqm.</i> <i>Total = 2.525 sqm</i> MATERIAL: Assuming that the timber will become unserviceable after being used 8 times Second class kail wood in planks or equivalent local soft wood	10 cudm	13.375	260.00	347.75

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	(i) Plank 30mm thick. Sides $2\{(0.60 \times 0.75)/2 \times 1.238\} = 1.6713$ sqm Battens $0.576 \times 1.21 = 0.697$ Front $0.5 \times 0.638 = 0.319$ Total = 2.687 sqm. Cubical contents $2.687 \times 0.038 = 0.102$ cum. Wastage @ 5% = 0.005 cum. Total = 0.107 cum. Qty taken for cost using once = $107/8 = 13.375$ cudm				
1197	Second class kail wood in scantling (ii) Battens-0.05x0.05 $2 \times 1.238 = 2.476$ m $2 \times 1.21 = 2.42$ m $2 \times 0.688 = 1.376$ m $2 \times 0.838 = 1.676$ m $3 \times 0.5 = 1.50$ m TOTAL = 9.448m Cubical contents $9.448 \times 0.05 \times 0.05 = 0.024$ cum Wastage 5% = 0.0012 cum. Total = 0.0252 cum = 25.2 cudm Qty taken for cost using once = $25.2/8 = 3.15$ cudm	10 cudm	3.150	260.00	81.90
2447	Hollock ballies 125 mm diameter (iii) Bailies 125mm dia. $1 \times 2.5 = 2.50$ m $1 \times 2.65 = 2.65$ m Total = 5.15 m Wastage 5% = 0.26m Total = 5.41 m Qty taken for cost using once = $5.41/8 = 0.6763$ m	metre	0.6763	35.00	23.67
2204	Carriage of timber Planks = 0.107 cum. Battens = 0.0252 cum Baillies $5.41 \times 22/7 \times (0.125)^2/4 = 0.066$ cum Total = 0.198 cum Qty taken for cost using once = $0.198/8 = 0.0248$ cudm	cum	0.0248	121.70	3.02
	LABOUR: Labour for assembling, erection, dismantling & cleaning				
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	0.800	329.00	263.20
9999	Sundries	L.S.	7.150	1.78	12.73
	TOTAL				1051.47
	Add Water Charges @ 1%				10.51
	TOTAL				1061.98
	Add CPOH @ 15%				159.30
	Cost of 2.525 sqm				1221.28
	Cost of 1 sqm				483.68
	Say				483.70

5.9.19 Weather shade, Chajjas, corbels etc., including edges

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a weather shade</i> <i>Area of centring and shuttering = 0.954 sqm</i> For a weather shade over a window of size 1.5mx1.2m Size of weather shade 1.80x0.45m Thickness at front = 0.05m Thickness at fixed edge = 0.07m Area in contact with concrete Bottom 1x0.45x1.80 = 0.810 1x0.05x1.80 = 0.094 2x0.45x0.06 = 0.027 Total = 0.954 sqm MATERIAL: Assuming that the timber will become unserviceable after being used 8 times				
1198	Second class kail wood in planks (i) Planking 38mm thick. Bottom 1x1.876x0.488 = 0.915 sqm. 1x1.876x0.05 = 0.094 sqm. 2x0.45x0.06 = 0.027 sqm. TOTAL = 1.036 sqm. Add 5% wastage = 0.052 sqm. Total = 1.088 sqm. Cubic contents 1.088x0.038 = 0.041 cum = 41 cudm Qty taken for cost using once = 41/8 = 5.125 cudm	10 cudm	5.125	260.00	133.25
1197	Second class kail wood in scantling (ii) Battens-2x0.60x0.075x0.10 = 0.009 Ends with bearing center 1x0.45x0.075x0.10 = 0.003 Total = 0.012 cum = 12 cudm Qty taken for cost using once = 12/8 = 1.50 cudm	10 cudm	1.500	260.00	39.00
2447	Hollock ballies 125 mm diameter (iii) Bailies 125mm dia. 2x2.1 = 4.2m Wastage 5% = 0.21m Total = 4.41 m Qty taken for cost using once = 4.41/8 = 0.5513 m	metre	0.5513	35.00	19.30
2204	Carriage of timber Plank = 0.041 cum. Battens = 0.012 cum. Bailies 4.41x22/7x(0.125) ² /4 = 0.054 cum. Total = 0.107 cum Qty taken for cost using once = 0.107/8 = 0.01338 cum	cum	0.01338	121.70	1.63
	LABOUR:				
	Labour for assembling, erection, dismantling & cleaning				
0112	Carpenter 2nd class	day	0.300	399.00	119.70
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	5.200	1.78	9.26
	TOTAL				404.39
	Add Water Charges @ 1%				4.04
	TOTAL				408.43
	Add CPOH @ 15%				61.26
	Cost of 0.954 sqm				469.69
	Cost of 1 sqm				492.34
	Say				492.35

5.9.20 Suspended floors, roofs, landings, balconies and access platform with water proof ply 12 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a room 4.50x3 = 13.50 sqm, height 3.5 m</i>				
	MATERIAL:				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	5.425	67.70	367.27A
	1. Plates (size 0.75x0.60) Angle 40x40x5mm 2x0.75= 1.50 m 2x0.60= 1.20 m= 2.70m @3.00kg/m = 8.1 kg Weight of one plate =8.1kg Add for wastage @ 5% = 0.41 kg Total = 8.51 kg Total weight of all plates = 5x6x8.51 = 255.30 kg Qty taken for cost using once.= 255.30x0.85/40 = 5.425 kg Welding length = (30x32)/40=24 cm				
1215	Welding by electric plant	cm	24.000	2.00	48.00
8659	Water proof ply 12 mm thick 1x4.50x3.00=13.50sqm Add wastage5% =0.68sqm Total 14.18sqm Qty taken for cost using once 14.18/8 = 1.77sqm	sqm	1.770	650.00	1150.50
0112	Carpenter 2nd class	day	0.125	399.00	49.88
0114	Beldar	day	0.125	329.00	41.12
1034	Bolts and nuts up to 300 mm in length	quintal	0.0021	5600.00	11.76
7342	Adjustable span ESO+SI (2.35-3.40)	each	0.1063	1900.00	201.97
	Qty taken for cost using once = 5x0.85/40 = 0.10625				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	1200.00	153.00
	Qty taken for cost using once = 6x0.85/40 = 0.1275				
9999	Assembly nut & bolts etc.	L.S.	12.630	1.78	22.48
9999	Carriage	L.S.	130.000	1.78	231.40
	LABOUR:				
0116	Fitter (grade 1)	day	3.000	435.00	1305.00
0114	Beldar	day	6.000	329.00	1974.00
9999	Shuttering oil	L.S.	78.000	1.78	138.84
9999	Sundries	L.S.	52.000	1.78	92.56
	TOTAL				5787.78
	Add Water Charges @ 1% except on A i.e on (5,787.78 - 367.27 =) 5,420.51				54.21
	TOTAL				5841.99
	Add CPOH @ 15% except on A i.e on (5,841.99 - 367.27 =) 5,474.72				821.21
	Cost of 13.5 sqm				6663.20
	Cost of 1 sqm				493.57
	Say				493.55

5.9.21 Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proof ply 12 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 7.80 sqm</i> a beam of 6 m clear span, 0.50 m deep 0.30 m wide and height 3.5 m from floor. Cubical contents $6.60 \times 0.5 \times 0.3 = 0.99 \text{ cum}$ $1 \times 1.30 \times 6.00 = 7.80 \text{ sqm}$ MATERIAL: Assuming shuttering will become unserviceable after use of 8 times Add maintenance charges @ 10% of cost of material Less salvage value of material after full use @ 25% of cost of material				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	3.720	67.70	251.84A
	Steel plates for side and bottom (plate size 1.20x0.50m)				
	Angle 40x40x5mm (both sides) & bottom				
	$2 \times (2 \times 1.20) = 4.80 + (2 \times 1.2) = 7.20 \text{ m}$				
	$2 \times (3 \times 0.50) = 3.00 + (3 \times 0.30) = 3.9 \text{ m}$				
	$11.10 \text{ m} @ 3.00 \text{ kg/m} = 33.30 \text{ kg}$				
	Add for wastage = 1.67kg.				
	TOTAL = 34.97 kg.				
	Total weight of all plates $5 \times 34.97 = 174.85 \text{ kg}$				
	Qty taken for cost of using once				
	$= 174.85 \times 0.85 / 40 = 3.72 \text{ kg}$				
	Welding length $480 / 40 = 12 \text{ cm}$				
1215	Welding by electric plant	cm	12.000	2.00	24.00
8659	Water proof ply 12 mm thick	sqm	1.020	650.00	663.00
	$1 \times 1.30 \times 6.00 = 7.80 \text{ sqm}$				
	Add 5% wastage = 0.39 sqm				
	Total = 8.19 sqm				
	Qty taken for cost of using once $8.19 / 8 \text{ sqm} = 1.02 \text{ sqm}$				
0112	Carpenter 2nd class	day	0.125	399.00	49.88
0114	Beldar	day	0.125	329.00	41.12
1034	Bolts and nuts up to 300 mm in length	quintal	0.0021	5600.00	11.76
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	1200.00	153.00
	Qty taken for cost of using once = $6 \times 0.85 / 40 = 0.1275 \text{ m}$				
7344	Beam clamp 300-380 mm (450-1070 mm)	each set	0.1063	422.00	44.86
	Qty taken for cost of using once = $5 \times 0.85 / 40 = 0.1063 \text{ m}$				
9999	Assembly nut & bolts etc.	L.S.	11.050	1.78	19.67
9999	Carriage	L.S.	78.000	1.78	138.84
	LABOUR:				
0116	Fitter (grade 1)	day	1.250	435.00	543.75
0114	Beldar	day	2.500	329.00	822.50
9999	Shuttering oil	L.S.	39.000	1.78	69.42
9999	Sundries, paper tape etc	L.S.	26.000	1.78	46.28
	TOTAL				2879.92
	Add Water Charges @ 1% except on A i.e on $(2,879.92 - 251.84 =) 2,628.08$				26.28
	TOTAL				2906.20
	Add CPOH @ 15% except on A i.e on $(2,906.20 - 251.84 =) 2,654.36$				398.15
	Cost of 7.8 sqm				3304.35
	Cost of 1 sqm				423.63
	Say				423.65

5.10 Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of Engineer-in-Charge.

5.10.1 12 mm dia & 100 mm length

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for wall length 7.90m x 1m (24 sets)</i>				
	MATERIAL:				
7320	Tie bolt 12 mm dia 100 mm length	each	24.000	50.00	1200.00
7324	Spring coil 12 mm	each	48.000	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.000	18.00	864.00
9999	Carriage	L.S.	13.000	1.78	23.14
	LABOUR:				
9999	Sundries	L.S.	26.000	1.78	46.28
	TOTAL				2901.42
	Add Water Charges @ 1%				29.01
	TOTAL				2930.43
	Add CPOH @ 15%				439.56
	Cost of 24 sets				3369.99
	Cost of each set				140.42
	Say				140.40

5.10.2 12 mm dia & 150 mm length

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for wall length 7.90m x 1 m (24 sets)</i>				
	MATERIAL:				
7321	Tie bolt 12 mm dia 150 mm length	each	24.000	60.00	1440.00
7324	Spring coil 12 mm	each	48.000	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.000	18.00	864.00
9999	Carriage	L.S.	13.000	1.78	23.14
9999	Sundries	L.S.	26.000	1.78	46.28
	TOTAL				3141.42
	Add Water Charges @ 1%				31.41
	TOTAL				3172.83
	Add CPOH @ 15%				475.92
	Cost of 24 sets				3648.75
	Cost of each set				152.03
	Say				152.05

5.10.3 20 mm dia & 150 mm length

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for wall length 7.90m x 1 m (24 sets)</i>				
	MATERIAL:				
7322	Tie bolt 20 mm dia 150 mm length	each	24.000	75.00	1800.00
7324	Spring coil 12 mm	each	48.000	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.000	18.00	864.00
9999	Carriage	L.S.	13.000	1.78	23.14
	LABOUR:				
9999	Sundries	L.S.	26.000	1.78	46.28
	TOTAL				3501.42
	Add Water Charges @ 1%				35.01
	TOTAL				3536.43
	Add CPOH @ 15%				530.46
	Cost of 24 sets				4066.89
	Cost of each set				169.45
	Say				169.45

5.10.4 20 mm dia & 225 mm length

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for wall length 7.90m x 1 m (24 sets)</i>				
	MATERIAL:				
7323	Tie bolt 20 mm dia 225 mm length	each	24.000	90.00	2160.00
7324	Spring coil 12 mm	each	48.000	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.000	18.00	864.00
9999	Carriage	L.S.	13.000	1.78	23.14
	LABOUR:				
9999	Sundries	L.S.	26.000	1.78	46.28
	TOTAL				3861.42
	Add Water Charges @ 1%				38.61
	TOTAL				3900.03
	Add CPOH @ 15%				585.00
	Cost of 24 sets				4485.03
	Cost of each set				186.88
	Say				186.90

5.11 Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).

5.11.1 Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a room of size 6m x 4.8m = 28.8 sqm</i>				
	MATERIAL:				
	Assuming that shuttering material will become unserviceable after use 40 times Less salvage value of material after full use @ 25% of cost material				
	Add 10% of cost of material for maintenance				
7345	Prop 4 m	each	0.4463	1170.00	522.17
	Qty taken for cost using once = $21 \times 0.85/40 = 0.4463$				
	Deduct the rate of 3m prop				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	-0.4463	1200.00	-535.56
	Qty taken for cost using once = $21 \times 0.85/40 = 0.4463$				
	Difference of rate between 4m prop and 3m prop				
7330	M.S. tube 40 mm dia	metre	1.0965	280.00	307.02
	Bracing MS tube 40mm				
	7x4.8m = 33.60m 3x6.0m = 18.00m				
	Total = 51.60m				
	Qty taken for cost using once = $51.6 \times 0.85/40 = 1.0965$				
7346	Double coupler (40x40)	each	0.4463	55.00	24.55
	Qty taken for cost using once = $21 \times 0.85/40 = 0.4463$				
9999	Carriage	L.S.	65.000	1.78	115.70
	LABOUR:				
0116	Fitter (grade 1)	day	3.000	435.00	1305.00
0114	Beldar	day	6.000	329.00	1974.00
9999	Sundries	L.S.	130.000	1.78	231.40
	TOTAL				3944.28
	Add Water Charges @ 1%				39.44
	TOTAL				3983.72
	Add CPOH @ 15%				597.56
	Cost of 28.8 sqm				4581.28
	Cost of 1 sqm				159.07
	Say				159.05

5.12 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
4.5.2	Cement concrete 1:2:4 in string or lacing course etc	cum	1.000	6269.80	6269.80A
	Rate as per Item Number 4.5.2 of SH: Concrete work (NB : Rate has been taken including cost of fixing in CM 1:2 as precast members are to be fixed in CM 1:2)(1 cement: 2 coarse sand) as per CPWD specifications				
	LABOUR:				
	Extra labour for laying CC in RCC work				
0114	Beldar	day	0.100	329.00	32.90
0101	Bhisti	day	0.200	363.00	72.60
0123	Mason (brick layer) 1 st class	day	0.040	435.00	17.40
0124	Mason (brick layer) 2nd class	day	0.040	399.00	15.96
0128	Mate	day	0.040	363.00	14.52
	TOTAL				6423.18
	Add Water Charges @ 1% except on A i.e on (6,423.18 - 6,269.80 =) 153.38				1.53
	TOTAL				6424.71
	Add CPOH @ 15% except on A i.e on (6,424.71 - 6,269.80 =) 154.91				23.24
	Cost of 1 cum				6447.95
	Say				6447.95

5.13 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in small lintels not exceeding 1.5 m clear span up to floor five level, including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a lintel Qty = 0.054 cum</i>				
	MATERIAL:				
	1.5m clear span = 1.8x0.20x0.15 = 0.054 cum.				
	Cement Concrete 1:2:4				
4.2.3	Rate as per Item Number 4.2.3 of SH: Concrete work	cum	0.054	6450.00	348.30A
	Centring and shuttering				
4.3.1	Rate as per Item Number 4.3.1 of SH: Concrete work	sqm	0.600	196.45	117.87A
	LABOUR:				
0114	Beldar	day	0.005	329.00	1.64
0101	Bhisti	day	0.010	363.00	3.63
0123	Mason (brick layer) 1 st class	day	0.002	435.00	0.87
0124	Mason (brick layer) 2nd class	day	0.002	399.00	0.80
0128	Mate	day	0.002	363.00	0.73
	TOTAL				473.84
	Add Water Charges @ 1% except on A i.e on (473.84 - 466.17 =) 7.67				0.08
	TOTAL				473.92
	Add CPOH @ 15% except on A i.e on (473.92 - 466.17 =) 7.75				1.16
	Cost of 0.054 cum				475.08
	Cost of 1 cum				8797.78
	Say				8797.80

5.14 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in mouldings as in cornices, windows sills etc. including setting in cement mortar 1:3 (1 cement : 3 coarse sand) cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one 1 x 0.20 x 0.15 = 0.03 cum</i>				
	MATERIAL:				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.030	5466.30	163.99A
	Extra labour for lifting 0.45 x 0.03 x 2.5 = 0.034				
0115	Coolie	day	0.034	329.00	11.19
9999	Mortar and labour for hoisting and for fixing	L.S.	2.730	1.78	4.86
	Centring and shuttering				
4.3.1	Rate as per Item Number 4.3.1 of SH: Concrete work	sqm	0.360	196.45	70.72A
	53.82x0.03				
9999	Add for extra labour for hoisting	L.S.	1.610	1.78	2.87
	LABOUR:				
	Add Extra labour for moulding				
0123	Mason (brick layer) 1 st class	day	0.0174	435.00	7.57
	0.58x0.03				
0124	Mason (brick layer) 2nd class	day	0.0174	399.00	6.94
	0.58x0.03				
0115	Coolie	day	0.045	329.00	14.80
	1.5x0.03				
0101	Bhisti	day	0.0018	363.00	0.65
	0.06x0.03				
	Extra labour for laying CC in RCC				
0114	Beldar	day	0.003	329.00	0.99
	0.1x0.03				
0101	Bhisti	day	0.006	363.00	2.18
	0.2x0.03				
0123	Mason (brick layer) 1 st class	day	0.0012	435.00	0.52
	0.04x0.03				
0124	Mason (brick layer) 2nd class	day	0.0012	399.00	0.48
	0.04x0.03				
0128	Mate	day	0.0012	363.00	0.44
	0.04x0.03				
	TOTAL				288.20
	Add Water Charges @ 1% except on A i.e on				
	(288.20 - 234.71 =) 53.49				0.53
	TOTAL				288.73
	Add CPOH @ 15% except on A i.e on				
	(288.73 - 234.71 =) 54.02				8.10
	Cost of 0.03 cum				296.83
	Cost of 1 cum				9894.33
	Say				9894.35

5.15 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in lintels, beams and bressumers including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but excluding the cost of reinforcement with, 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a beam 6.60m long 0.50m</i>				
	<i>deep and 0.30m wide = 6.60x0.50x0.30 = 0.99 cum</i>				
	MATERIAL:				
	Cement concrete 1:2:4				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work Centring and shuttering	cum	0.990	5466.30	5411.64A
4.3.1	Rate as per Item Number 4.3.1 of SH: Concrete work Extra labour for lifting material upto floor Vlevel	sqm	6.900	196.45	1355.50A
0115	Coolie LABOUR:	day	1.110	329.00	365.19
0114	Extra labour for laying cement concrete in RCCwork Beldar	day	0.099	329.00	32.57
0101	0.10x0.99 Bhisti	day	0.198	363.00	71.87
0123	0.20x0.99 Mason (brick layer) 1 st class	day	0.0396	435.00	17.23
0124	0.04x0.99 Mason (brick layer) 2nd class	day	0.0396	399.00	15.80
0128	0.04x0.99 Mate	day	0.0396	363.00	14.37
9999	Cement mortar 1:3 for fixing	L.S.	89.700	1.78	159.67
9999	Labour for hoisting, Transporting and setting in position	L.S.	269.100	1.78	479.00
TOTAL					7922.84
Add Water Charges @ 1% except on A i.e on (7,922.84 - 6,767.14 =) 1,155.70					11.56
TOTAL					7934.40
Add CPOH @ 15% except on A i.e on (7,934.40 - 6,767.14 =) 1,167.26					175.09
Cost of 0.99 cum					8109.49
Cost of 1 cum					8191.40
Say					8191.40

5.16 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for one shelf 0.90x0.45x0.04m thick = 0.90x0.45x0.04m = 0.0162 cum</i>					
Cement concrete 1:2:4					
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work Finishing	cum	0.0162	5466.30	88.55A
13.18	Rate as per Item Number 13.18 of SH: Finishing Centring and shuttering:2x(0.90+0.45)x0.04 = 0.108 sqm	sqm	0.850	41.40	35.19A
4.3.1	Rate as per Item Number 4.3.1 of SH: Concrete work Extra labour for lifting material upto floor V level	sqm	0.108	196.45	21.22A
0115	Coolie LABOUR:	day	0.018	329.00	5.92
Extra labour for laying cement concrete in RCC work due to delay etc.					
0114	Beldar	day	0.016	329.00	5.26
0101	Bhisti	day	0.0032	363.00	1.16
0123	Mason (brick layer) 1 st class	day	0.0006	435.00	0.26
0124	Mason (brick layer) 2nd class	day	0.0006	399.00	0.24
0128	Mate	day	0.0006	363.00	0.22
9999	Cement mortar 1:3 for fixing	L.S.	4.420	1.78	7.87

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour for hoisting, Transporting and setting	L.S.	13.520	1.78	24.07
	TOTAL				189.96
	Add Water Charges @ 1% except on A i.e on (189.96 - 144.96 =) 45.00				0.45
	TOTAL				190.41
	Add CPOH @ 15% except on A i.e on (190.41 - 144.96 =) 45.45				6.82
	Cost of 0.0162 cum				197.23
	Cost of 1 cum				12174.69
	Say				12174.70

5.17 Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in vertical & horizontal fins individually or forming box louvers setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4 RCC vertical fins 4m high at 1m centre to centre with two horizontal fins, all projecting 60cm from face of wall and 5cm thick cubical contents = 0.66 cum</i>				
	MATERIAL:				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.660	5466.30	3607.76A
	Centering and shuttering				
4.3.1	Rate as per Item Number 4.3.1 of SH: Concrete work	sqm	2.560	196.45	502.91A
	Extra labour for lifting material upto floor V level				
0115	Coolie	day	0.750	329.00	246.75
	LABOUR:				
	Extra labour for laying cement concrete in RCC work due to delay etc.				
0114	Beldar	day	0.066	329.00	21.71
0101	Bhisti	day	0.132	363.00	47.92
0123	Mason (brick layer) 1 st class	day	0.0264	435.00	11.48
0124	Mason (brick layer) 2nd class	day	0.0264	399.00	10.53
0128	Mate	day	0.0264	363.00	9.58
9999	Cement mortar 1:2 for fixing	L.S.	17.940	1.78	31.93
9999	Labour for hoisting, Transporting and setting	L.S.	71.760	1.78	127.73
9999	Sundries	L.S.	17.940	1.78	31.93
	TOTAL				4650.23
	Add Water Charges @ 1% except on A i.e on (4,650.23 - 4,110.67 =) 539.56				5.40
	TOTAL				4655.63
	Add CPOH @ 15% except on A i.e on (4,655.63 - 4,110.67 =) 544.96				81.74
	Cost of 0.66 cum				4737.37
	Cost of 1 cum				7177.83
	Say				7177.85

5.18 Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits.

5.18.1 50 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.00mx0.75m = 1.50 sqm of jali</i>				
0768	Cement Concrete Jali 50 mm thick	sqm	1.500	210.00	315.00
9999	Mortar for fixing	L.S.	6.240	1.78	11.11
9999	Carriage and sundries	L.S.	6.200	1.78	11.04
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.300	435.00	130.50
0124	Mason (brick layer) 2nd class	day	0.300	399.00	119.70
0114	Beldar	day	1.080	329.00	355.32
	TOTAL				942.67
	Add Water Charges @ 1%				9.43
	TOTAL				952.10
	Add CPOH @ 15%				142.82
	Cost of 1.5 sqm				1094.92
	Cost of 1 sqm				729.95
	Say				729.95

5.18.2 40 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.2mx0.60m = 0.75 sqm of jali</i>				
0769	Cement Concrete Jali 40 mm thick	sqm	0.750	180.00	135.00
9999	Mortar for fixing	L.S.	3.640	1.78	6.48
9999	Carriage and sundries	L.S.	3.640	1.78	6.48
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.120	435.00	52.20
0124	Mason (brick layer) 2nd class	day	0.120	399.00	47.88
0114	Beldar	day	0.500	329.00	164.50
	TOTAL				412.54
	Add Water Charges @ 1%				4.13
	TOTAL				416.67
	Add CPOH @ 15%				62.50
	Cost of 0.75 sqm				479.17
	Cost of 1 sqm				638.89
	Say				638.90

5.18.3 25 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.75mx0.5m = 0.375 sqm of jali</i>				
0770	Cement Concrete Jali 25 mm thick	sqm	0.375	150.00	56.25
9999	Mortar for fixing	L.S.	1.820	1.78	3.24
9999	Carriage and sundries	L.S.	1.820	1.78	3.24
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
0114	Beldar	day	0.250	329.00	82.25
	TOTAL				195.02
	Add Water Charges @ 1%				1.95
	TOTAL				196.97
	Add CPOH @ 15%				29.55
	Cost of 0.375 sqm				226.52
	Cost of 1 sqm				604.05
	Say				604.05

5.19 Encasing rolled steel sections, in beams and columns, with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including centering and shuttering complete but excluding cost of reinforcement.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.424 cum.</i>				
	Consider 2 R.S. Joists (150mmx80mm) 4.88m long placed 30cm apart centre to centre				
	Overall dimensions of the beam 43cmx20cm				
	MATERIAL:				
	Concrete work :4.93x0.43x0.20 = 0.424 cum				
	For 1:2:4 Cement Concrete (1 cement: 2 coarse sand : 4 stone aggregate 20mm nominal size)				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.424	5466.30	2317.71A
	Extra labour for laying C.C. in RCC work				
0114	Beldar	day	0.042	329.00	13.82
0101	Bhisti	day	0.085	363.00	30.86
0123	Mason (brick layer) 1 st class	day	0.017	435.00	7.40
0124	Mason (brick layer) 2nd class	day	0.017	399.00	6.78
0128	Mate	day	0.017	363.00	6.17
	Form work-4.93x0.83 girth = 4.09 sqm				
5.9.5	Rate as per Item Number 5.9.5 of SH: Reinforced cement concrete work	sqm	4.090	332.15	1358.49A
9999	Sundries and for lifting materials	L.S.	21.580	1.78	38.41
	TOTAL				3779.64
	Add Water Charges @ 1% except on A i.e on (3,779.64 - 3,676.20 =) 103.44				1.03
	TOTAL				3780.67
	Add CPOH @ 15% except on A i.e on (3,780.67 - 3,676.20 =) 104.47				15.67
	Cost of 0.424 cum				3796.34
	Cost of 1 cum				8953.63
	Say				8953.65

5.20 Encasing rolled steel section in grillages with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including centering and shuttering but excluding cost of expanded metal and hangers.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for the grillage 3.50mx3.50mx1.00m</i>				
	Cement concrete 1:2:4: 3.50mx3.50x1.00=12.25cum				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	12.250	5466.30	66962.18A
	Extra labour for laying C.C. in RCC work				
0114	Beldar	day	1.225	329.00	403.02
0101	Bhisti	day	2.450	363.00	889.35
0123	Mason (brick layer) 1 st class	day	0.490	435.00	213.15
0124	Mason (brick layer) 2nd class	day	0.490	399.00	195.51
0128	Mate	day	0.490	363.00	177.87
	Shuttering :2(3.50+3.50)x1.00= 14.00 sqm				
5.9.5	Rate as per Item Number 5.9.5 of SH: Reinforced cement concrete work	sqm	14.000	332.15	4650.10A
	TOTAL				73491.18
	Add Water Charges @ 1% except on A i.e on (73,491.18 - 71,612.28 =) 1,878.90				18.79
	TOTAL				73509.97
	Add CPOH @ 15% except on A i.e on (73,509.97 - 71,612.28 =) 1,897.69				284.65
	Cost of 12.25 cum				73794.62
	Cost of 1 cum				6024.05
	Say				6024.05

5.21 Extra for providing and fixing expanded metal mesh of size 20x60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg per sqm for encasing of rolled steel sections in beams, columns and grillages excluding cost of hangers.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Expanded metal 20 mm x 60 mm and 1.6 mm thick = 10 sqmwastage 5 % = 0.50 sqm				
	Total =10.50 sqm				
1015	Mild steel expanded metal 20x60 mm strands	sqm	10.500	300.00	3150.00
9999	Carriage of expended metal	L.S.	13.520	1.78	24.07
9999	Wire for tying	L.S.	13.520	1.78	24.07
	Cost of bending and placing in position				
0102	Blacksmith 1 st class	day	0.250	435.00	108.75
0114	Beldar	day	0.250	329.00	82.25
	TOTAL				3389.14
	Add Water Charges @ 1%				33.89
	TOTAL				3423.03
	Add CPOH @ 15%				513.45
	Cost of 10 sqm				3936.48
	Cost of 1 sqm				393.65
	Say				393.65

5.22 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level

5.22.1 Mild steel and Medium Tensile steel bars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Mild steel bars = 1.00 q				
	Add 5% wastage = 0.05				
	Total = 1.05 q				
1004	Average rate of Mild steel round bars for reinforcement	quintal	1.050	4500.00	4725.00
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	94.65	9.94
9999	Cover block	L.S.	26.000	1.78	46.28
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries and binding wire	L.S.	26.910	1.78	47.90
	TOTAL				5593.12
	Add Water Charges @ 1%				55.93
	TOTAL				5649.05
	Add CPOH @ 15%				847.36
	Cost of 100 kilogram				6496.41
	Cost of 1 kilogram				64.96
	Say				64.95

5.22.2 Hard drawn steel wire

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Hard drawn steel wire = 1.00 q				
	wastage 5%=0.05q				
	Total = 1.05 q				
1224	Hard drawn steel wire	quintal	1.050	5500.00	5775.00
	Carriage 1.05q = 0.105 tonne				
2205	Carriage of steel	tonne	0.105	94.65	9.94
	LABOUR:				
	For cutting and laying in position etc				
0102	Blacksmith 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				6596.84
	Add Water Charges @ 1%				65.97
	TOTAL				6662.81
	Add CPOH @ 15%				999.42
	Cost of 100 kilogram				7662.23
	Cost of 1 kilogram				76.62
	Say				76.60

5.22.3 Cold twisted bars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	wastage 5% = 0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.050	4759.00	4996.95
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	94.65	9.94
9999	Cover block	L.S.	26.000	1.78	46.28
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries and binding wire	L.S.	26.910	1.78	47.90
	TOTAL				5865.07
	Add Water Charges @ 1%				58.65
	TOTAL				5923.72
	Add CPOH @ 15%				888.56
	Cost of 100 kilogram				6812.28
	Cost of 1 kilogram				68.12
	Say				68.10

5.22.4 Hot rolled deformed bars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5 % = 0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.050	4759.00	4996.95
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	94.65	9.94
9999	Cover block	L.S.	26.000	1.78	46.28
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries and binding wire	L.S.	26.910	1.78	47.90
	TOTAL				5865.07
	Add Water Charges @ 1%				58.65
	TOTAL				5923.72
	Add CPOH @ 15%				888.56
	Cost of 100 kilogram				6812.28
	Cost of 1 kilogram				68.12
	Say				68.10

5.22.5 Hard drawn steel wire fabric

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 quintal				
	MATERIAL:				
	Hard drawn steel wire fabric 100kg/7.75kg				
	= 12.903 sqm				
	Wastage 5 % = 0.64 sqm				
	Total = 13.548 sqm				
1021	Hard drawn steel wire fabric	sqm	13.548	440.00	5961.12
	Carriage 1.05q = 0.105 tonne				
2205	Carriage of steel	tonne	0.105	94.65	9.94
9999	Cover block	L.S.	26.000	1.78	46.28
	LABOUR:				
	For cutting and laying in position				
0103	Blacksmith 2nd class	day	0.200	399.00	79.80
0114	Beldar	day	1.500	329.00	493.50
9999	Sundries and binding wire	L.S.	13.520	1.78	24.07
	TOTAL				6614.71
	Add Water Charges @ 1%				66.15
	TOTAL				6680.86
	Add CPOH @ 15%				1002.13
	Cost of 100 kilogram				7682.99
	Cost of 1 kilogram				76.83
	Say				76.85

5.22.6 Thermo-Mechanically Treated bars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Add 5% wastage =0.05				
	Total =1.05q				
1005	Twisted steel/ deformed bars	quintal	1.050	4759.00	4996.95
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	94.65	9.94
9999	Cover block	L.S.	26.000	1.78	46.28
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				5865.07
	Add Water Charges @ 1%				58.65
	TOTAL				5923.72
	Add CPOH @ 15%				888.56
	Cost of 100 kilogram				6812.28
	Cost of 1 kilogram				68.12
	Say				68.10

5.22A Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.**5.22A.1 Mild steel and Medium Tensile steel bars**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Mild steel bars = 1.00 q				
	Add 5% wastage = 0.05				
	Total = 1.05 q				
1004	Average rate of Mild steel round bars for reinforcement	quintal	1.050	4500.00	4725.00
2205	Carriage of steel	tonne	0.105	94.65	9.94
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.000	1.78	46.28
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries and binding wire	L.S.	26.910	1.78	47.90
	MATERIAL:				
	TOTAL				5593.12
	Add Water Charges @ 1%				55.93
	TOTAL				5649.05
	Add CPOH @ 15%				847.36
	Cost of 100 kilogram				6496.41
	Cost of 1 kilogram				64.96
	Say				64.95

5.22A.2 Hard drawn steel wire

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Hard drawn steel wire = 1.00 q				
	Wastage 5%=0.05q				
	Total = 1.05 q				
1224	Hard drawn steel wire	quintal	1.050	5500.00	5775.00
2205	Carriage of steel	tonne	0.105	94.65	9.94
	1.05q = 0.105 tonne				
	LABOUR:				
	For cutting and laying in position etc				
0102	Blacksmith 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				6596.84
	Add Water Charges @ 1%				65.97
	TOTAL				6662.81
	Add CPOH @ 15%				999.42
	Cost of 100 kilogram				7662.23
	Cost of 1 kilogram				76.62
	Say				76.60

5.22A.3 Cold twisted bars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5% = 0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.050	4759.00	4996.95
2205	Carriage of steel	tonne	0.105	94.65	9.94
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.000	1.78	46.28
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries and binding wire	L.S.	26.910	1.78	47.90
	TOTAL				5865.07
	Add Water Charges @ 1%				58.65
	TOTAL				5923.72
	Add CPOH @ 15%				888.56
	Cost of 100 kilogram				6812.28
	Cost of 1 kilogram				68.12
	Say				68.10

5.22A.4 Hot rolled deformed bars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5 % = 0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.050	4759.00	4996.95
2205	Carriage of steel	tonne	0.105	94.65	9.94
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.000	1.78	46.28
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries and binding wire	L.S.	26.910	1.78	47.90
	TOTAL				5865.07
	Add Water Charges @ 1%				58.65
	TOTAL				5923.72
	Add CPOH @ 15%				888.56
	Cost of 100 kilogram				6812.28
	Cost of 1 kilogram				68.12
	Say				68.10

5.22A.5 Hard drawn steel wire fabric

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Hard drawn steel wire fabric 100kg/7.75kg				
	= 12.903 sqm.,				
	Wastage 5 % = 0.64 sqm				
	Total = 13.548 sqm				
1021	Hard drawn steel wire fabric	sqm	13.548	440.00	5961.12
2205	Carriage of steel	tonne	0.105	94.65	9.94
	1.05q = 0.105 tonne				
9999	Cover block	L.S.	26.000	1.78	46.28
	LABOUR:				
	For cutting and laying in position				
0103	Blacksmith 2nd class	day	0.200	399.00	79.80
0114	Beldar	day	1.500	329.00	493.50
9999	Sundries and binding wire	L.S.	13.520	1.78	24.07
	TOTAL				6614.71
	Add Water Charges @ 1%				66.15
	TOTAL				6680.86
	Add CPOH @ 15%				1002.13
	Cost of 100 kilogram				7682.99
	Cost of 1 kilogram				76.83
	Say				76.85

5.22A.6 Thermo-Mechanically Treated bars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Add 5% wastage =0.05				
	Total =1.05q				
1005	Twisted steel/ deformed bars	quintal	1.050	4759.00	4996.95
2205	Carriage of steel	tonne	0.105	94.65	9.94
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.000	1.78	46.28
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				5865.07
	Add Water Charges @ 1%				58.65
	TOTAL				5923.72
	Add CPOH @ 15%				888.56
	Cost of 100 kilogram				6812.28
	Cost of 1 kilogram				68.12
	Say				68.10

5.23 Smooth finishing of the exposed surface of RCC work with 6mm thick cement mortar 1:3 (1 cement : 3 fine sand).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Cement mortar 1:3 (cement:3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.072	4468.35	321.72
0155	Mason (average)	day	0.510	417.00	212.67
0115	Coolie	day	0.750	329.00	246.75
0101	Bhisti	day	0.920	363.00	333.96
9999	Extra for removing burrs, cleaning with wire brushes				
	pock marking with pointed tool etc. complete	L.S.	13.390	1.78	23.83
9999	Scaffolding and Sundries	L.S.	11.700	1.78	20.83
	TOTAL				1159.76
	Add Water Charges @ 1%				11.60
	TOTAL				1171.36
	Add CPOH @ 15%				175.70
	Cost of 10 sqm				1347.06
	Cost of 1 sqm				134.71
	Say				134.70

5.24 Extra for rendering smooth the top of suspended floors, landings and staircases (treads and risers) with cement mortar 1:2 (1 cement : 2 coarse sand) including a floating coat of neat cement and protecting the surface with a layer of 7.5 cm of earth laid over 15 mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landings and steps including subsequent removal and cleaning of the same.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Cement mortar 1:2 (1 Cement: 2 Coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.030	5933.65	178.01
	Finishing (Floating coat) with				
0367	Portland Cement	tonne	0.0213	6300.00	134.19
2209	Carriage of cement	tonne	0.0213	94.65	2.02
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0124	Mason (brick layer) 2nd class	day	0.200	399.00	79.80
0114	Beldar	day	0.250	329.00	82.25
9999	Spreading earth on floor (7.5mm thick)	L.S.	35.490	1.78	63.17
	Spreading sand 15mm thick on floor				
0983	Fine sand (zone IV)	cum	0.150	700.00	105.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.150	106.49	15.97
9999	Disposal of earth spread over floor protection	L.S.	5.330	1.78	9.49
9999	Sundries	L.S.	6.240	1.78	11.11
	TOTAL				768.01
	Add Water Charges @ 1%				7.68
	TOTAL				775.69
	Add CPOH @ 15%				116.35
	Cost of 10 sqm				892.04
	Cost of 1 sqm				89.20
	Say				89.20

5.25 Providing and fixing in position copper plate as per design for expansion joints.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.56 kg</i>				
	Considering 3.0 m length, width 250mm and 1.6 mm thick = 0.750 sqm copper plate.				
	Weight of copper plate @ 14.08 kg/m ² 10.56kg				
0967	Copper plate	kilogram	10.560	270.00	2851.20
	LABOUR:				
0103	Blacksmith 2nd class	day	0.250	399.00	99.75
9999	Sundries	L.S.	6.240	1.78	11.11
	TOTAL				2962.06
	Add Water Charges @ 1%				29.62
	TOTAL				2991.68
	Add CPOH @ 15%				448.75
	Cost of 10.56 kilogram				3440.43
	Cost of 1 kilogram				325.80
	Say				325.80

5.26 Providing and filling in position, blown bitumen in expansion joints.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a joint of 300m length 2.5cm width and 15cm depth</i>				
	<i>Cubical content of joint: $300 \times 0.025 \times 0.150 = 1.125 \text{ cum}$</i>				
	MATERIAL:				
	Bitumen 85/25 @ 1050kg per cum. $1.25 \times 1050 \text{ kg}$				
	= 1181.25kg				
	Add wastage @ 5% = 59.06 kg. = 1240.31 kg = 1.2401				
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	1.240	49600.00	61504.00
2211	Carriage of tar / bitumen	tonne	1.240	106.49	132.05
0370	Coal (steam)	quintal	2.480	400.00	992.00
	for heating of bitumen @ 2.0 quintal per tonne of bitumen. $1.240 \times 2.0 = 2.48 \text{ q} = 0.248 \text{ t}$				
2200	Carriage of steam coal	tonne	0.248	121.70	30.18
	LABOUR:				
	Labour for heating, mixing and filling				
0123	Mason (brick layer) 1 st class	day	2.520	435.00	1096.20
0124	Mason (brick layer) 2nd class	day	2.520	399.00	1005.48
0114	Beldar	day	8.060	329.00	2651.74
9999	Sundries	L.S.	121.160	1.78	215.66
	TOTAL				67627.31
	Add Water Charges @ 1%				676.27
	TOTAL				68303.58
	Add CPOH @ 15%				10245.54
	Cost of 300m length 2.5cm width and 15cm depth				78549.12
	per cm depth per cm width per 100 m				698.21
	Say				698.20

5.27 Providing and filling in position bitumen mix filler of Proportion 80 kg of hot bitumen, 1 kg of cement and 0.25 cubic metre of coarse sand for expansion joints.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 300m length 2.5cm width and 15cm depth</i>				
	<i>Cubical content of joints: $300 \times 0.150 \times 0.025 = 1.125 \text{ cum}$</i>				
	MATERIAL:				
	Bitumen S-90 = 256.30 kg per cum 256.30×1.125				
	= 288.34 kg Add for wastage @ 5% = 14.42 kg				
	Total = 302.76 kg. or = 0.303 tonne				
0309	Paving bitumen of grade VG-10 of approved quality	tonne	0.303	50600.00	15331.80
2211	Carriage of tar / bitumen	tonne	0.303	106.49	32.27
0370	Coal (steam)	quintal	0.606	400.00	242.40
	for heating of bitumen @ 2.0 quintal per tonne of bitumen, i.e. $0.303 \times 2.0 = 0.606 \text{ q}$				
2200	Carriage of steam coal	tonne	0.061	121.70	7.42
0367	Portland Cement	tonne	0.0036	6300.00	22.68
	$1/80 \times 228.34 = 3.6 \text{ kg} = 0.0036 \text{ Tonne}$				
2209	Carriage of cement	tonne	0.0036	94.65	0.34
0982	Coarse sand (zone III)	cum	0.900	1200.00	1080.00
	$1/4 \text{th of the quantity of cement in kg} = 3.6/4 = 0.90 \text{ cum}$				
2203	Carriage of coarse sand	cum	0.900	106.49	95.84

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR: for heating and filling				
0123	Mason (brick layer) 1 st class	day	2.520	435.00	1096.20
0124	Mason (brick layer) 2nd class	day	2.520	399.00	1005.48
0114	Beldar	day	8.060	329.00	2651.74
9999	Sundries	L.S.	121.160	1.78	215.66
	TOTAL				21781.83
	Add Water Charges @ 1%				217.82
	TOTAL				21999.65
	Add CPOH @ 15%				3299.95
	Cost of 300m length 2.5cm wide and 15cm depth				25299.66
	Cost per cm depth per cm width per 100m				224.89
	Say				224.90

5.28 Providing and fixing in position 12 mm thick bitumen impregnated fibre board conforming to IS: 1838, including cost of primer, sealing compound in expansion joints.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for for joint 100m long 10cm deep and 12mm thick</i>				
	MATERIAL:				
	(i) Impregnated fibre board $1 \times 100 \times 0.075 = 7.5 \text{sqm}$				
0339	Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	7.500	350.00	2625.00
	(ii) Primere 80m/litter $100\text{m} = 100/80 \times 1 = 1.25 \text{ lit}$				
0316	Bitumen solution primer of approved quality	litre	1.250	50.00	62.50
	(iii) Sealing compound @ 3 m per litre for 100m = $100/3 \times 1 = 33.3 \text{ litres}$				
	Wastage @ 5% = 1.67				
	Total = 35.00 litre (1 litre = 0.9 kg) $= 35.00 \times 0.9 = 31.5 \text{ kg}$				
0314	Bitumen hot sealing compound : grade A	kilogram	31.500	28.00	882.00
9999	Carriage	L.S.	26.910	1.78	47.90
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.120	435.00	52.20
0124	Mason (brick layer) 2nd class	day	0.120	399.00	47.88
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				3847.63
	Add Water Charges @ 1%				38.48
	TOTAL				3886.11
	Add CPOH @ 15%				582.92
	Cost of 100m long 10cm deep				4469.03
	Cost per cm depth per 100m				446.90
	Say				446.90

5.29 Providing and fixing sheet covering over expansion joints with iron screws as per design.
5.29.1 Non-asbestos fibre cement board 6mm thick as per IS : 14862
5.29.1.1 150 mm wide

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3m length</i>				
	MATERIAL:				
0236	Multi purpose fibre (high impact poly propylene reinforced) cement board 6 mm thick	sqm	0.470	210.00	98.70
2273	Carriage of A.C.sheet and accessories	tonne	0.005	94.65	0.46
	0.45sqm = 0.0049 tonne				
9999	50mm iron screws with washer and rawl plugs	L.S.	40.300	1.78	71.73
	LABOUR:				
0112	Carpenter 2nd class	day	0.200	399.00	79.80
0114	Beldar	day	0.200	329.00	65.80
	TOTAL				316.49
	Add Water Charges @ 1%				3.16
	TOTAL				319.65
	Add CPOH @ 15%				47.95
	Cost of 3 metre				367.60
	Cost of 1 metre				122.53
	Say				122.55

5.29.1.2 200 mm wide

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3m length</i>				
	MATERIAL:				
0236	Multi purpose fibre (high impact poly propylene reinforced) cement board 6 mm thick	sqm	0.630	210.00	132.30
2273	Carriage of A.C.sheet and accessories	tonne	0.0065	94.65	0.62
	0.60sqm. = 0.0065 tonne				
9999	50mm iron screws with washer and rawl	L.S.	53.820	1.78	95.80
	LABOUR:				
0112	Carpenter 2nd class	day	0.270	399.00	107.73
0114	Beldar	day	0.270	329.00	88.83
	TOTAL				425.28
	Add Water Charges @ 1%				4.25
	TOTAL				429.53
	Add CPOH @ 15%				64.43
	Cost of 3 metre				493.96
	Cost of 1 metre				164.65
	Say				164.65

5.29.2 Aluminium fluted strips 3.15 mm thick

5.29.2.1 150 mm wide

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
2391	Strips-Aluminium fluted 3.15 mm thick and 150 mm wide	metre	1.000	228.00	228.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	6.000	38.00	2.28
9999	Carriage of materials	L.S.	1.040	1.78	1.85
	LABOUR:				
0112	Carpenter 2nd class	day	0.067	399.00	26.73
0114	Beldar	day	0.067	329.00	22.04

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	1.820	1.78	3.24
	TOTAL				284.14
	Add Water Charges @ 1%				2.84
	TOTAL				286.98
	Add CPOH @ 15%				43.05
	Cost of 1 metre				330.03
	Say				330.05

5.29.2.2 200 mm wide

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
2392	Strips Aluminium fluted 3.15 mm thick and 200 mm wide	metre	1.000	323.00	323.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	6.000	38.00	2.28
9999	Carriage of materials	L.S.	1.300	1.78	2.31
	LABOUR:				
0112	Carpenter 2nd class	day	0.089	399.00	35.51
0114	Beldar	day	0.089	329.00	29.28
9999	Sundries	L.S.	2.340	1.78	4.17
	TOTAL				396.55
	Add Water Charges @ 1%				3.97
	TOTAL				400.52
	Add CPOH @ 15%				60.08
	Cost of 1 metre				460.60
	Say				460.60

5.30 Add for plaster drip course / groove in plastered surface or moulding to R.C.C. projections.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30 metre long throating or plaster or moulding</i>				
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.500	435.00	217.50
0124	Mason (brick layer) 2nd class	day	0.500	399.00	199.50
0115	Coolie	day	1.000	329.00	329.00
9999	Add for material (cement mortar etc.)	L.S.	26.910	1.78	47.90
	TOTAL				793.90
	Add Water Charges @ 1%				7.94
	TOTAL				801.84
	Add CPOH @ 15%				120.28
	Cost of 30 metre				922.12
	Cost of 1 metre				30.74
	Say				30.75

5.31 Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. Note:- The quantity will be calculated by multiplying the depth measured from the subsoil water level upto the centre of gravity of the R.C.C. under subsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gravity shall be reconed correct to 0.1 m. 0.05 m or more shall be taken as 0.1 and less than 0.05 m ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under subsoil water conditions.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for depth of water 0.30m.</i>				
	<i>Quantity of concrete = 14 cum</i>				
	<i>Analysis same as per item number 4.15</i>				
	<i>Pumping hours = 3 hrs. or 0.375 day</i>				
0011	Hire charges of Pump set of capacity 4000 litres/ hour for cleaning slush	day	0.375	600.00	225.00
0114	Beldar	day	4.000	329.00	1316.00
	TOTAL				1541.00
	Add Water Charges @ 1%				15.41
	TOTAL				1556.41
	Add CPOH @ 15%				233.46
	Cost of 14cum. per 0.30m depth				1789.87
	Cost of 1 cum				426.16
	Say				426.15

5.32 Extra for laying reinforced cement concrete in or under foul positions.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum .</i>				
	<i>Analysis same as per item number 4.16</i>				
	<i>Extra labour due to slow progress</i>				
0123	Mason (brick layer) 1 st class	day	0.020	435.00	8.70
0124	Mason (brick layer) 2nd class	day	0.020	399.00	7.98
0114	Beldar	day	0.250	329.00	82.25
0115	Coolie	day	0.150	329.00	49.35
	TOTAL				148.28
	Add Water Charges @ 1%				1.48
	TOTAL				149.76
	Add CPOH @ 15%				22.46
	Cost of 1 cum				172.22
	Say				172.20

5.33 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.

Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.

5.33.1 All work upto plinth level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.570	1175.00	669.75
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.280	1175.00	329.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.850	106.49	90.52
0982	Coarse sand (zone III)	cum	0.425	1200.00	510.00
2203	Carriage of coarse sand	cum	0.425	106.49	45.26
0367	Portland Cement	tonne	0.330	6300.00	2079.00
2209	Carriage of cement	tonne	0.330	94.65	31.23
7318	Plasticizer / super plasticizer	kilogram	1.650	38.00	62.70
	0.50% of cement Production cost, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.000	150.00	150.00
	LABOUR:				
	Labour for pouring, consolidating & curing				
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	TOTAL				5420.69
	Add Water Charges @ 1%				54.21
	TOTAL				5474.90
	Add CPOH @ 15%				821.23
	Cost of 1 cum				6296.13
	Say				6296.15

5.33.2 All work above plinth level upto floor V level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.570	1175.00	669.75
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.280	1175.00	329.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.850	106.49	90.52
0982	Coarse sand (zone III)	cum	0.425	1200.00	510.00
2203	Carriage of coarse sand	cum	0.425	106.49	45.26
0367	Portland Cement	tonne	0.330	6300.00	2079.00
2209	Carriage of cement	tonne	0.330	94.65	31.23
7318	Plasticizer / super plasticizer	kilogram	1.650	38.00	62.70
	0.50% of cement Production cost, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.000	150.00	150.00
	LABOUR:				
	Labour for pouring, consolidating & curing				
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	Extra labour for lifting up to floor five level				
	0.75 x 2.5 = 1.88				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				6039.21
	Add Water Charges @ 1%				60.39
	TOTAL				6099.60
	Add CPOH @ 15%				914.94
	Cost of 1 cum				7014.54
	Say				7014.55

5.34 Extra for providing richer mixes at all floor levels.Note:- Excess/ less cement over the specified cement content used is payable/ recoverable separately.

5.34.1 Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum .</i>				
	Cement for M-30 mix = 0.340 t				
	Cement for M-25 mix = 0.330 t				
	Difference = 0.010 t				
0367	Portland Cement	tonne	0.010	6300.00	63.00
2209	Carriage of cement	tonne	0.010	94.65	0.95
	Plasticizer for M-30 mix = 1.70 kg				
	Plasticizer for M-25 mix =1.65 kg				
	Difference = 0.05 kg				
7318	Plasticizer / super plasticizer	kilogram	0.050	38.00	1.90
	TOTAL				65.85
	Add Water Charges @ 1%				0.66
	TOTAL				66.51
	Add CPOH @ 15%				9.98
	Cost of 1 cum				76.49
	Say				76.50

5.34.2 Providing M-35 grade concrete instead of M-25 grade BMC/RMC. (Note : Cement content considered in M-35 is @ 350 kg/cum)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum .</i>				
	Cement for M-35 mix = 0.350 t				
	Cement for M-25 mix = 0.330 t				
	Difference 0.020 t				
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.020	94.65	1.89
	Plasticizer for M-35 mix = 1.75 kg				
	Plasticizer for M-25mix = 1.65 kg				
	Difference = 0.10 kg				
7318	Plasticizer / super plasticizer	kilogram	0.100	38.00	3.80
	TOTAL				131.69
	Add Water Charges @ 1%				1.32
	TOTAL				133.01
	Add CPOH @ 15%				19.95
	Cost of 1 cum				152.96
	Say				152.95

5.34.3 Providing M-40 grade concrete instead of M-25 grade BMC/RMC.(Note : Cement content considered in M-40 is @ 360 kg/cum)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum .</i>				
	Cement for M-40 mix = 0.360 t				
	Cement for M-25 mix = 0.330 t				
	Difference = 0.030 t				
0367	Portland Cement	tonne	0.030	6300.00	189.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of cement	tonne	0.030	94.65	2.84
	Plasticizer for M-40 mix =1.8 kg				
	Plasticizer for M-25mix = 1.65 kg				
	Difference = 0.15 kg				
7318	Plasticizer / super plasticizer	kilogram	0.150	38.00	5.70
	TOTAL				197.54
	Add Water Charges @ 1%				1.98
	TOTAL				199.52
	Add CPOH @ 15%				29.93
	Cost of 1 cum				229.45
	Say				229.45

5.35 Add for using extra cement in the items of design mix over and above the specified cement content therein.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
0367	Portland Cement	tonne	0.100	6300.00	630.00
2209	Carriage of cement	tonne	0.100	94.65	9.47
	TOTAL				639.47
	Add Water Charges @ 1%				6.39
	TOTAL				645.86
	Add CPOH @ 15%				96.88
	Cost of 1 quintal				742.74
	Say				742.75

5.36 Providing and placing in position precast reinforced cement concrete waffle units, square or rectangular as per design and shape for floors and roofs in 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 10 mm nominal size), including flush or deep ruled pointing at joints in cement mortar 1:2 (1 cement : 2 Fine sand), making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting etc, form work in precasting, handling, hoisting, centering and erection complete for all floor levels but excluding the cost of reinforcement.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.38 cum</i>				
	Consider a waffle 09. x 0.9 x 0.3m				
	Total area covered 4.548 x 3.636 = 16.54 sqm.				
	Cement concrete in 1unit				
	Top 0.8 x 0.8 x 0.035 = 0.0224				
	sides 2(0.8 x 0.265 x 0.0325) = 0.01382				
	(0.735 x 0.265 x 0.0325) = 0.0127				
	Total = 0.0489				
	Flange 4 x 0.85 x 0.05 x 0.035 = 0.0060				
	Total = 0.0549				
	Add for Fillets 25% = 0.0137				
	Total = 0.069 cum.				
	Quantity for 20 such units = 1.38 cum				
5.2.2	Rate as per Item Number 5.2.2 of SH:				
	Reinforced cement concrete work	cum	1.380	7074.30	9762.53A
	(i) Shuttering and centringFace in contact				
	4 x 0.8 x 0.265 = 0.848				
	Inner 4 x 0.735 x 0.265 = 0.779				
	Top (inside) 1 x 0.735 x 0.735 = 0.540				
	Flange 4 x 0.9 x 0.035 = 0.126				
	Total = 2.293 sqm.				
	Quantity 20 such units 45.86 sqm				
5.9.15	Rate as per Item Number 5.9.15 of SH:				
	Reinforced cement concrete work	sqm	45.860	196.45	9009.20A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Hooks for lifting 2 x 1.5 = 3.0 m 4 x 0.01 = 0.04 m = 3.04 m @ 3 kg per m 9.12 kg or 0.009 t (ii) 10 mm dia. Bolts 60 mm long with nuts and washers 2 x 2 = 4Nos				
10.2	Rate as per Item Number 10.2 of SH:				
	Steel work	kg	9.000	73.95	665.55A
9999	Including carriage of bolts	L.S.	13.000	1.78	23.14
9999	Sundries	L.S.	79.950	1.78	142.31
	(iv) Transportation and erection labour for 20 units				
0126	Mason (for ornamental stone work) 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	6.000	329.00	1974.00
	(v) Cost of pointing flush or deep ruled in cement mortar 1:2 (1 Cement : 2 fine sand)				
13.35.1	Rate as per Item Number 13.35.1 of SH: Finishing	sqm	16.540	86.85	1436.50A
	TOTAL				23448.23
	Add Water Charges @ 1% except on A i.e on (23,448.23 - 20,873.78 =) 2,574.45				25.74
	TOTAL				23473.97
	Add CPOH @ 15% except on A i.e on (23,473.97 - 20,873.78 =) 2,600.19				390.03
	Cost of 1.38 cum				23864.00
	Cost of 1 cum				17292.75
	Say				17292.75

5.37 Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess/ less cement used as per design mix is payable/ recoverable separately.

5.37.1 All work upto plinth level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.570	1175.00	669.75
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.280	1175.00	329.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.850	106.49	90.52
0982	Coarse sand (zone III)	cum	0.425	1200.00	510.00
2203	Carriage of coarse sand	cum	0.425	106.49	45.26
0367	Portland Cement	tonne	0.330	6300.00	2079.00
2209	Carriage of cement	tonne	0.330	94.65	31.23
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.650	38.00	62.70
	Production Cost, carriage to site, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc. Labour for pouring, consolidating and curing	cum	1.000	150.00	150.00
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	TOTAL				5720.69
	Add Water Charges @ 1%				57.21
	TOTAL				5777.90
	Add CPOH @ 15%				866.68
	Cost of 1 cum				6644.58
	Say				6644.60

5.37.2 All work above plinth level upto floor V level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.570	1175.00	669.75
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.280	1175.00	329.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.850	106.49	90.52
0982	Coarse sand (zone III)	cum	0.425	1200.00	510.00
2203	Carriage of coarse sand	cum	0.425	106.49	45.26
0367	Portland Cement	tonne	0.330	6300.00	2079.00
2209	Carriage of cement	tonne	0.330	94.65	31.23
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.650	38.00	62.70
	Production Cost, carriage to site, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc. Labour for pouring, consolidating and curing	cum	1.000	150.00	150.00
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	Extra labour for lifting up to floor five level 0.75 x 2.5 = 1.88				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				6339.21
	Add Water Charges @ 1%				63.39
	TOTAL				6402.60
	Add CPOH @ 15%				960.39
	Cost of 1 cum				7362.99
	Say				7363.00

5.38 Extra for R.C.C. / B.M.C / R.M.C. work above floor V level for each four floors or part thereof.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0009	Pumping charges of concrete including				
	Hire charges of pump, piping work & accessories etc.	cum	1.000	150.00	150.00
	TOTAL				150.00
	Add Water Charges @ 1%				1.50
	TOTAL				151.50
	Add CPOH @ 15%				22.72
	Cost of 1 cum				174.22
	Say				174.20

5.40 Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.

Note:- (1)Cement content considered in this item is @330 kg/ cum. Excess/ less cement used as per design mix is payable /recoverable separately.

(2) Fly ash conforming to grade I of IS: 3812 (part-1) only be used as part replacement of OPC as per IS: 456. Uniform blending with cement to be ensured in accordance with clause 5.2 and 5.2.1 of IS: 456 - 2000 in the items of BMC and RMC.

5.40.1 All works up to Plinth level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.650	1050.00	682.50
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal				
	size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm				
	nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.370	1200.00	444.00
2203	Carriage of coarse sand	cum	0.370	106.49	39.40
1980	Fly ash	cum	0.210	8.00	1.68
2262	Carriage of flyash	cum	0.210	106.49	22.36
0367	Portland Cement	tonne	0.330	6300.00	2079.00
2209	Carriage of cement	tonne	0.330	94.65	31.23
7318	Plasticizer / super plasticizer	kilogram	1.650	38.00	62.70
	Production cost, carriage to site, pumping to				
	respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00
0009	Pumping charges of concrete including				
	Hire charges of pump, piping work & accessories etc.	cum	1.000	150.00	150.00
	LABOUR:for pouring, consolidating and curing				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	TOTAL				5648.90
	Add Water Charges @ 1%				56.49
	TOTAL				5705.39
	Add CPOH @ 15%				855.81
	Cost of 1 cum				6561.20
	Say				6561.20

5.40.2 All works above plinth & up to floor V level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.650	1050.00	682.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.240	1175.00	282.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.650	115.75	75.24
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.240	106.49	25.56
0982	Coarse sand (zone III)	cum	0.370	1200.00	444.00
2203	Carriage of coarse sand	cum	0.370	106.49	39.40
1980	Fly ash	cum	0.210	8.00	1.68
2262	Carriage of flyash	cum	0.210	106.49	22.36
0367	Portland Cement	tonne	0.330	6300.00	2079.00
2209	Carriage of cement	tonne	0.330	94.65	31.23
7318	Plasticizer / super plasticizer	kilogram	1.650	38.00	62.70
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.000	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.000	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.000	150.00	150.00
	LABOUR:for pouring, consolidating and curing				
0155	Mason (average)	day	0.170	417.00	70.89
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.900	363.00	326.70
0012	Vibrator (Needle type 40 mm)	day	0.070	350.00	24.50
9999	Sundries	L.S.	13.000	1.78	23.14
	Extra labour for lifting up to floor five level 0.75 x 2.5 = 1.88				
0115	Coolie	day	1.880	329.00	618.52
	TOTAL				6267.42
	Add Water Charges @ 1%				62.67
	TOTAL				6330.09
	Add CPOH @ 15%				949.51
	Cost of 1 cum				7279.60
	Say				7279.60

5.41 Supplying and applying pre tested and approved water based concrete curing compound to concrete/ masonry surface, all as per manufacturer's specification and direction of Engineer-in-charge.

5.41.1 Non pigmented wet curing compound

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7178	Chemical ASTM C-type I	kg	2.000	110.00	220.00
	Coverage of chemical 5 sqm per kg.				
	Chemical required for 10 sqm = 10 /5 = 2 kg				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.460	399.00	183.54
0115	Coolie	day	0.230	329.00	75.67
0101	Bhisti	day	0.100	363.00	36.30
9999	Scaffolding and sundries	L.S.	8.060	1.78	14.35
	Extra labour for clean up process				
0114	Beldar	day	0.750	329.00	246.75
9999	Extra machinery, hand pump, compressor etc.	L.S.	80.000	1.78	142.40
	TOTAL				919.01
	Add Water Charges @ 1%				9.19
	TOTAL				928.20
	Add CPOH @ 15%				139.23
	Cost of 10 sqm				1067.43
	Cost of 1 sqm				106.74
	Say				106.75

5.41.2 Pigmented wet curing compound

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	<i>Details cost for 10 sqm</i>				
	Based on DAR item 13.44.1				
	MATERIAL:				
7281	Chemical ASTM C-type II	kg	2.000	170.00	340.00
	Coverage of chemical 5 sqm per kg.				
	Chemical required for 10 sqm = 10 /5 = 2 kg				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.460	399.00	183.54
0115	Coolie	day	0.230	329.00	75.67
0101	Bhisti	day	0.100	363.00	36.30
9999	Scaffolding and sundries	L.S.	8.060	1.78	14.35
	Extra labour for clean up process				
0114	Beldar	day	0.750	329.00	246.75
9999	Extra machinery, hand pump, compressor etc.	L.S.	80.000	1.78	142.40
	TOTAL				1039.01
	Add Water Charges @ 1%				10.39
	TOTAL				1049.40
	Add CPOH @ 15%				157.41
	Cost of 10 sqm				1206.81
	Cost of 1 sqm				120.68
	Say				120.70

5.42 Providing and fixing tapered / parallel threaded couplers conforming to IS code on “Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement – Specification”, to reinforcement bars including threading, enlargement at connection by forging, protecting the prepared reinforcement bars and related operations as required to complete the works as per direction of Engineer-in-Charge . (The length of the bars in which coupler is to be provided should not be less than 4 metre, no deduction for labour and binding wire saved for not providing lap length shall be made).

5.42.1 Coupler for 16 mm diameter reinforcement bar

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one</i>				
	MATERIAL:				
2394	Coupler 16 mm dia	each	1.000	67.00	67.00
	LABOUR:				
9999	For placing in position and fixing	L.S.	3.770	1.78	6.71
9999	Tapered / Parallel threading charges	L.S.	17.770	1.78	31.63
	TOTAL				105.34
	Add Water Charges @ 1%				1.05
	TOTAL				106.39
	Add CPOH @ 15%				15.96
	Cost of each				122.35
	Say				122.35

5.42.2 Coupler for 20 mm diameter reinforcement bar

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one</i>				
	MATERIAL:				
2395	Coupler 20 mm dia	each	1.000	88.00	88.00
	LABOUR:				
9999	For placing in position and fixing	L.S.	5.900	1.78	10.50
9999	Tapered / Parallel threading charges	L.S.	25.170	1.78	44.80
	TOTAL				143.30
	Add Water Charges @ 1%				1.43
	TOTAL				144.73
	Add CPOH @ 15%				21.71
	Cost of each				166.44
	Say				166.45

5.42.3 Coupler for 25 mm diameter reinforcement bar

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one</i>				
	MATERIAL:				
2396	Coupler 25 mm dia	each	1.000	130.00	130.00
	LABOUR:				
9999	For placing in position and fixing	L.S.	8.690	1.78	15.47
9999	Tapered / Parallel threading charges	L.S.	29.610	1.78	52.71
	TOTAL				198.18
	Add Water Charges @ 1%				1.98
	TOTAL				200.16
	Add CPOH @ 15%				30.02
	Cost of each				230.18
	Say				230.20

5.42.4 Coupler for 28 mm diameter reinforcement bar

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one</i>				
	MATERIAL:				
2397	Coupler 28 mm dia	each	1.000	192.00	192.00
	LABOUR:				
9999	For placing in position and fixing	L.S.	12.840	1.78	22.86
9999	Tapered / Parallel threading charges	L.S.	32.570	1.78	57.97
	TOTAL				272.83
	Add Water Charges @ 1%				2.73
	TOTAL				275.56
	Add CPOH @ 15%				41.33
	Cost of each				316.89
	Say				316.90

5.42.5 Coupler for 32 mm diameter reinforcement bar

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one</i>				
	MATERIAL:				
2398	Coupler 32 mm dia	each	1.000	231.00	231.00
	LABOUR:				
9999	For placing in position and fixing	L.S.	15.480	1.78	27.55
9999	Tapered / Parallel threading charges	L.S.	32.570	1.78	57.97
	TOTAL				316.52
	Add Water Charges @ 1%				3.17
	TOTAL				319.69
	Add CPOH @ 15%				47.95
	Cost of each				367.64
	Say				367.65

5.43 Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints.**5.43.1 200 mm wide**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	1.600	275.00	440.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	6.000	32.00	1.92
9999	Carriage of materials	L.S.	1.300	1.78	2.31
	LABOUR:				
0103	Blacksmith 2nd class	day	0.067	399.00	26.73
0114	Beldar	day	0.067	329.00	22.04
9999	Sundries	L.S.	2.340	1.78	4.17
	TOTAL				497.17
	Add Water Charges @ 1%				4.97
	TOTAL				502.14
	Add CPOH @ 15%				75.32
	Cost of 1 metre				577.46
	Say				577.45

5.43.2 300 mm wide

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	2.400	275.00	660.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	6.000	32.00	1.92
9999	Carriage of materials	L.S.	1.300	1.78	2.31
	LABOUR:				
0103	Blacksmith 2nd class	day	0.067	399.00	26.73
0114	Beldar	day	0.067	329.00	22.04
9999	Sundries	L.S.	2.340	1.78	4.17
	TOTAL				717.17
	Add Water Charges @ 1%				7.17
	TOTAL				724.34
	Add CPOH @ 15%				108.65
	Cost of 1 metre				832.99
	Say				833.00

- 5.44 Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor / floor to wall expansion control system for various vertical location in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self –centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in-Charge . (Material shall confirm to ASTM 6063.)**

5.44.1 Floor Joint of 100 mm gap

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 metre</i>				
	MATERIAL:				
2403	Floor Joint of 100 mm	metre	1.000	4500.00	4500.00
2402	Epoxy adhesive	kg	4.250	150.00	637.50
9999	Carriage of material etc.	L.S.	124.900	1.78	222.32
	LABOUR:				
0102	Blacksmith 1 st class	day	0.050	435.00	21.75
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				5474.42
	Add Water Charges @ 1%				54.74
	TOTAL				5529.16
	Add CPOH @ 15%				829.37
	Cost of 1 metre				6358.53
	Say				6358.55

5.44.2 Floor Joint of 150 mm gap

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 metre</i>				
	MATERIAL:				
2404	Floor Joint of 150 mm	metre	1.000	5000.00	5000.00
2402	Epoxy adhesive	kg	4.500	150.00	675.00
9999	Carriage of material etc.	L.S.	124.900	1.78	222.32
	LABOUR:				
0102	Blacksmith 1 st class	day	0.050	435.00	21.75
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				6011.92
	Add Water Charges @ 1%				60.12
	TOTAL				6072.04
	Add CPOH @ 15%				910.81
	Cost of 1 metre				6982.85
	Say				6982.85

5.44.3 Floor Joint of 200 mm gap

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 metre</i>				
	MATERIAL:				
2405	Floor Joint of 200 mm	metre	1.000	5400.00	5400.00
2402	Epoxy adhesive	kg	4.750	150.00	712.50
9999	Carriage of material etc.	L.S.	124.900	1.78	222.32
	LABOUR:				
0102	Blacksmith 1 st class	day	0.050	435.00	21.75
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				6449.42
	Add Water Charges @ 1%				64.49
	TOTAL				6513.91
	Add CPOH @ 15%				977.09
	Cost of 1 metre				7491.00
	Say				7491.00

5.45 Providing and fixing of expansion joint system related with wall joint (internal/external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221-02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multi-cellular to facilitate movement. (Material shall confirm to ASTM 6063.)

5.45.1 Wall Joint of 100 mm gap

Code No	Description	Unit	Quantity	Rate	Amount
	<i>Details of cost for 1.00 metre</i>				
	MATERIAL:				
2409	Wall Joint of 100 mm	metre	1.000	3400.00	3400.00
2402	Epoxy adhesive	kg	4.250	150.00	637.50
9999	Carriage of material etc.	L.S.	124.900	1.78	222.32
	LABOUR:				
0102	Blacksmith 1 st class	day	0.050	435.00	21.75

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				4374.42
	Add Water Charges @ 1%				43.74
	TOTAL				4418.16
	Add CPOH @ 15%				662.72
	Cost of 1 metre				5080.88
	Say				5080.90

5.45.2 Wall Joint of 150 mm gap

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 metre</i>				
	MATERIAL:				
2410	Wall Joint of 150 mm	metre	1.000	3700.00	3700.00
2402	Epoxy adhesive	kg	4.500	150.00	675.00
9999	Carriage of material etc.	L.S.	124.900	1.78	222.32
	LABOUR:				
0102	Blacksmith 1 st class	day	0.050	435.00	21.75
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				4711.92
	Add Water Charges @ 1%				47.12
	TOTAL				4759.04
	Add CPOH @ 15%				713.86
	Cost of 1 metre				5472.90
	Say				5472.90

5.45.3 Wall Joint of 200 mm gap

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 metre</i>				
2411	Wall Joint of 200 mm	metre	1.000	4000.00	4000.00
2402	Epoxy adhesive	kg	4.750	150.00	712.50
9999	Carriage of material etc.	L.S.	124.900	1.78	222.32
	LABOUR:				
0102	Blacksmith 1 st class	day	0.050	435.00	21.75
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				5049.42
	Add Water Charges @ 1%				50.49
	TOTAL				5099.91
	Add CPOH @ 15%				764.99
	Cost of 1 metre				5864.90
	Say				5864.90

- 5.46 Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. Material shall confirm to ASTM 6063.**

5.46.1 Roof Joint of 100 mm gap

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 metre</i>				
	MATERIAL:				
2399	Complete Roof Joint of 100 mm	metre	1.000	4500.00	4500.00
2402	Epoxy adhesive	kg	4.250	150.00	637.50
9999	Carriage of material etc.	L.S.	124.900	1.78	222.32
	LABOUR:				
0102	Blacksmith 1 st class	day	0.050	435.00	21.75
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				5474.42
	Add Water Charges @ 1%				54.74
	TOTAL				5529.16
	Add CPOH @ 15%				829.37
	Cost of 1 metre				6358.53
	Say				6358.55

5.46.2 Roof Joint of 150 mm gap

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 metre</i>				
	MATERIAL:				
2400	Complete Roof Joint of 150 mm	metre	1.000	4800.00	4800.00
2402	Epoxy adhesive	kg	4.500	150.00	675.00
9999	Carriage of material etc	L.S.	124.900	1.78	222.32
	LABOUR:				
0102	Blacksmith 1 st class	day	0.050	435.00	21.75
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				5811.92
	Add Water Charges @ 1%				58.12
	TOTAL				5870.04
	Add CPOH @ 15%				880.51
	Cost of 1 metre				6750.55
	Say				6750.55

5.46.3 Roof Joint of 200 mm gap

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 metre</i>				
	<i>Details of cost for 1.00 metre.</i>				
	MATERIAL:				
2401	Complete Roof Joint of 200 mm	metre	1.000	5000.00	5000.00
2402	Epoxy adhesive	kg	4.750	150.00	712.50
9999	Carriage of material etc.	L.S.	124.900	1.78	222.32
	LABOUR:				
0102	Blacksmith 1 st class	day	0.050	435.00	21.75
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				6049.42
	Add Water Charges @ 1%				60.49
	TOTAL				6109.91\
	Add CPOH @ 15%				916.49
	Cost of 1 metre				7026.40
	Say				7026.40

5.47 Providing and fixing in position factory made precast RCC M-40 doors and windows frames having excellent smooth finish as per IS: 6523 with reinforcement of 3 Nos, 6 mm dia main bars tied with 3 mm M.S stirrups placed @ 200 mm C/C and 6 numbers high strength polymer blocks of required size for fixing hinges including providing 6 no specially designed M.S. galvanised sleeves for accomodating 6 mm dia fully threaded bolts for fixing hold fast on vertical members, providing suitable arrangement for recieving sliding door bolts and tower bolt etc all complete, as per the direction of Engineer in charge. (The cost of hold fast and cc block of 1:3:6 mix is also included in the item.) The frame shall be measured in running meter correct to two places of decimal.

5.47.1 Door frame 125 mm x 60 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5.20 metre</i>				
	MATERIAL:				
5.33.1	Rate as per Item Number 5.33.1 of SH:				
	Reinforced cement concrete work	cum	0.039	6296.15	245.55AP
5.34.3	Rate as per Item Number 5.34.3 of SH:				
	Reinforced cement concrete work	cum	0.039	229.45	8.95AQ
	Extra for scatter and smaller work @25 %				
	(P + Q) * 0.25 = (245.55 + 8.95) * 0.25				63.63
1005	Twisted steel/ deformed bars	quintal	0.0468	4759.00	222.72
0596	Bright finished or black enameled mild steel				
	butt hinges 75x47x1.70 mm	10 Nos	6.000	65.00	39.00
4.3.3	Rate as per Item No. 4.3.3 of SH: Cement Concrete	sqm	1.270	453.35	575.75A
14.2.1	Rate as per Item Number 14.2.1 of SH:				
	Repairs to Building	each	1.000	790.75	790.75A
13.48.2	Rate as per Item Number 13.48.2 of SH: Finishing	sqm	1.270	88.20	112.01A
9999	Sundries	L.S.	100.670	1.78	179.19
	TOTAL				2237.55
	Add Water Charges @ 1% except on A i.e on				
	(2,237.55 - 1,733.01 =) 504.54				5.05
	TOTAL				2242.60
	Add CPOH @ 15% except on A i.e on				
	(2,242.60 - 1,733.01 =) 509.59				76.44
	Cost of 5.20 metre				2319.04
	Cost of 1 metre				445.97
	Say				445.95

5.47.2 Door frame 100 mm x 60 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5.20 metre</i>				
5.33.1	Rate as per Item Number 5.33.1 of SH:				
	Reinforced cement concrete work	cum	0.031	6296.15	195.18AP
5.34.3	Rate as per Item Number 5.34.3 of SH:				
	Reinforced cement concrete work	cum	0.031	229.45	7.11AQ
	Extra for scatter and smaller work @25 %				
	(P + Q) * 0.25 = (195.18 + 7.11) * 0.25				50.57
1005	Twisted steel/ deformed bars	quintal	0.0372	4759.00	177.03
0596	Bright finished or black enameled mild steel				
	butt hinges 75x47x1.70 mm	10 Nos	6.000	65.00	39.00
4.3.3	Rate as per Item No. 4.3.3 of SH: Cement Concrete	sqm	1.140	453.35	516.82A
14.2.1	Rate as per Item Number 14.2.1 of SH:				
	Repairs to Building	each	1.000	790.75	790.75A
13.48.2	Rate as per Item Number 13.48.2 of SH: Finishing	sqm	1.140	88.20	100.55A
9999	Sundries	L.S.	100.670	1.78	179.19
	TOTAL				2056.20
	Add Water Charges @ 1% except on A i.e on				
	(2,056.20 - 1,610.41 =) 445.79				4.46
	TOTAL				2060.66
	Add CPOH @ 15% except on A i.e on				
	(2,060.66 - 1,610.41 =) 450.25				67.54
	Cost of 5.20 metre				2128.20
	Cost of 1 metre				409.27
	Say				409.25

5.47.3 Door frame 85 mm x 60 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5.20 metre</i>				
5.33.1	Rate as per Item Number 5.33.1 of SH:				
	Reinforced cement concrete work	cum	0.027	6296.15	170.00AP
5.34.2	Rate as per Item Number 5.34.2 of SH:				
	Reinforced cement concrete work	cum	0.027	152.95	4.13AQ
	Extra for scatter and smaller work @25 %				
	(P + Q) * 0.25 = (170.00 + 4.13) * 0.25				43.53
1005	Twisted steel/ deformed bars	quintal	0.0324	4759.00	154.19
0596	Bright finished or black enameled mild steel				
	butt hinges 75x47x1.70 mm	10 Nos	6.000	65.00	39.00
4.3.3	Rate as per Item No. 4.3.3 of SH: Cement Concrete	sqm	1.070	453.35	485.08A
14.2.1	Rate as per Item Number 14.2.1 of SH:				
	Repairs to Building	each	1.000	790.75	790.75A
13.48.2	Rate as per Item Number 13.48.2 of SH: Finishing	sqm	1.070	88.20	94.37A
9999	Sundries	L.S.	100.670	1.78	179.19
	TOTAL				1960.24
	Add Water Charges @ 1% except on A i.e on				
	(1,960.24 - 1,544.33 =) 415.91				4.16
	TOTAL				1964.40
	Add CPOH @ 15% except on A i.e on				
	(1,964.40 - 1,544.33 =) 420.07				63.01
	Cost of 5.20 metre				2027.41
	Cost of 1 metre				389.89
	Say				389.90

- 5.48 Providing and laying Reinforced cement concrete for construction of piers, abutments, portal frames, pier caps and bearing pedestals and seismic arresters over pier/ abutment caps at all locations with specified grade using Ordinary Portland Cement (conforming to strength requirement of IS:8112) including the cost of steel centering and shuttering etc. complete including testing of materials etc. for casting pier & pier cap in one/two stage, necessary tools, plants, machinery and all related operations as required to complete the work as per drawings and Specifications with all leads, lifts and depths true to level and position but excluding the cost of providing reinforcement. Reinforcement shall be measured and paid separately. Note:-Cement content considered in this item is 480 kg/cum. Excess /less cement used as per design mix is payable/recoverable separately.**

5.48.1 Reinforced Cement Concrete - M-50 grade

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 120.00</i>				
5.48X	Annexure for item 5.48.1 Providing M 50 grade reinforced Cement Concrete data for 120.00 cum	each	1.000	631745.30	631745.30P
	Add 11 per cent of cost of material, labour and machinery for formwork				
	$P \times 11 / 100 = 631745.30 \times 11 / 100$				69491.98
	Add 1.4 per cent of cost of material, Labour and machinery excluding formwork to cater for extra lift				
	$P \times 1.4 / 100 = 631745.30 \times 1.4 / 100$				8844.43
	TOTAL				710081.72
	Add Water Charges @ 1%				7100.82
	TOTAL				717182.54
	Add CPOH @ 15%				107577.38
	Cost of 120.00 cum				824759.92
	Cost of 1 cum				6873.00
	Say				6873.00

5.48.2 Reinforced Cement Concrete - M-60 grade

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 120.00 cum</i>				
5.48Y	Annexure for item 5.48.2 Providing M 60 grade reinforced Cement Concrete data for 120.00 cum	each	1.000	734012.90	734012.90P
	Add 11 per cent of cost of material, labour and machinery for formwork				
	$P \times 11 / 100 = 734012.90 \times 11 / 100$				80741.42
	Add 1.4 per cent of cost of material, Labour and machinery excluding formwork to cater for extra lift				
	$P \times 1.4 / 100 = 734012.90 \times 1.4 / 100$				10276.18
	TOTAL				825030.50
	Add Water Charges @ 1%				8250.30
	TOTAL				833280.80
	Add CPOH @ 15%				124992.12
	Cost of 120.00 cum				958272.92
	Cost of 1 cum				7985.61
	Say				7985.60

5.48.3 Extra for using M-50/M-60 grade Self-compacting Reinforced Cement Concrete

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
5.48.3X	Rate as per item no. 5.48.3X	cum	1.000	8620.70	8620.70P
5.48.2	Rate as per item no. 5.48.2	cum	1.000	7985.60	7985.60Q
	$P - Q = 8620.70 - 7985.60$				635.10
	Cost of 1 cum				635.10
	Say				635.10

5.48.3X M60 grade Self-compacting Reinforced Cement Concrete

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 120.00 cum</i>				
5.48Z	Annexure for item 5.48.3 , Extra for using M 60 grade Self Compacting Reinforced cement Concrete data for 120.00 cum	each	1.000	792387.10	792387.10P
	Add 11 per cent of cost of material, labour and machinery for formwork				
	$P \times 11 / 100 = 792387.10 \times 11 / 100$				87162.58
	Add 1.4 per cent of cost of material, Labour and machinery excluding formwork to cater for extra lift				
	$P \times 1.4 / 100 = 792387.10 \times 1.4 / 100$				11093.42
	TOTAL				890643.10
	Add Water Charges @ 1%				8906.43
	TOTAL				899549.53
	Add CPOH @ 15%				134932.43
	Cost of 120.00cum				1034481.96
	Cost of 1 cum				8620.68
	Say				8620.70

5.48X Annexure for item 5.48.1 , Providing M 50 grade Reinforced cement Concrete data for 120.00 cum

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for each</i>				
	RCC Grade M50Unit = 1 cum				
	Taking output = 120 cum				
	MATERIAL:				
0367	Portland Cement	tonne	57.600	6300.00	362880.00
0982	Coarse sand (zone III)	cum	54.000	1200.00	64800.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	64.800	1175.00	76140.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	43.200	1175.00	50760.00
7318	Plasticizer / super plasticizer	kilogram	223.200	38.00	8481.60
	LABOUR:				
0128	Mate	day	0.940	363.00	341.22
0123	Mason (brick layer) 1 st class	day	3.500	435.00	1522.50
0114	Beldar	day	20.000	329.00	6580.00
	MACHINERY:				
0066	Batching and Mixing Plant @ 75 cum per hour	hour	1.600	2500.00	4000.00
0070	Generator 100 KVA/125 KVA	hour	1.600	500.00	800.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	1.600	900.00	1440.00
	Distance = 10 kmQty= 120.00 cumTotal = 120.00x 10= 1200				
0029	Carriage of concrete by transit mixer	km/cum	1200.000	30.00	36000.00
0009	Pumping charges of concrete including				
	Hire charges of pump, piping work & accessories etc.	cum	120.000	150.00	18000.00
	TOTAL				631745.32
	Cost of each				631745.32
	Say				631745.30

5.48Y Annexure for item 5.48.2 , Providing M 60 grade Reinforced cement Concrete data for 120.00 cum

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for each</i>				
	RCC Grade M60Unit = 1 cumTaking output = 120 cum				
0367	Portland Cement	tonne	57.600	6300.00	362880.00
0982	Coarse sand (zone III)	cum	54.980	1200.00	65976.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	57.540	1175.00	67609.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	38.220	1175.00	44908.50
7318	Plasticizer / super plasticizer	kilogram	230.400	38.00	8755.20
8953	Micro Silica	kg	3600.000	32.00	115200.00
	LABOUR:				
0128	Mate	day	0.940	363.00	341.22
0123	Mason (brick layer) 1 st class	day	3.500	435.00	1522.50
0114	Beldar	day	20.000	329.00	6580.00
	MACHINERY:				
0066	Batching and Mixing Plant @ 75 cum per hour	hour	1.600	2500.00	4000.00
0070	Generator 100 KVA/125 KVA	hour	1.600	500.00	800.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	1.600	900.00	1440.00
	Distance = 10 kmQty= 120.00 cumTotal = 120.00x 10= 1200				
0029	Carriage of concrete by transit mixer	km/cum	1200.000	30.00	36000.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	120.000	150.00	18000.00
	TOTAL				734012.92
	Cost of each				734012.92
	Say				734012.90

5.48Z Annexure for item 5.48.3 , Extra for using M 60 grade Self Compacting Reinforced cement Concrete data for 120.00 cum

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for each</i>				
	Extra for using M60 grade Self-compacting Reinforced Cement ConcreteRCC Grade M60 self compacting concreteUsing Batching Plant, Transit Mixer and Conrete Pump Unit ; cum Taking Output = 120 cum				
	MATERIAL:				
0367	Portland Cement	tonne	57.600	6300.00	362880.00
0982	Coarse sand (zone III)	cum	54.000	1200.00	64800.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	64.800	1175.00	76140.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	43.200	1175.00	50760.00
8953	Micro Silica	kg	5040.000	32.00	161280.00
7318	Plasticizer / super plasticizer	kilogram	230.400	38.00	8755.20
	LABOUR:				
0128	Mate	day	0.840	363.00	304.92
0123	Mason (brick layer) 1 st class	day	3.000	435.00	1305.00
0114	Beldar	day	18.000	329.00	5922.00
	MACHINERY:				
0066	Batching and Mixing Plant @ 75 cum per hour	hour	1.600	2500.00	4000.00
0070	Generator 100 KVA/125 KVA	hour	1.600	500.00	800.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	1.600	900.00	1440.00
	Distance = 10 kmQty= 120.00 cumTotal = 120.00x 10= 1200				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0029	Carriage of concrete by transit mixer	km/cum	1200.000	30.00	36000.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	120.000	150.00	18000.00
	TOTAL				792387.12
	Cost of each				792387.12
	Say				792387.10

- 5.49 Constructing cast-in situ RCC diaphragm wall by providing and laying machine batched, machine mixed, self compacting, ready mix reinforced cement concrete, tramie controlled, of M 30 grade using minimum 400 kg. cement per cum of concrete including providing and mixing required admixtures in recommended proportions as per IS : 9103, as approved by the Engineer-in-charge, for achieving 150-200mm slump, for diaphragm wall having thickness as per approved structural design not exceeding 600 mm, in pannels of required depth and lengths as per approved drawing, including constructing necessary guide walls as required and as specified including boring in all kinds of soils and rocks, including working in or under water and / or liquid mud, in foul conditions and pumping or bailing out of water and removing slush, including disposal of earth/ rock / slush etc. for all leads and all lifts, including preparing, providing and re-circulating bentonite slurry in the trench as and when required for all depths, including agitating bentonite slurry during trenching etc., providing and fixing stop ends or form tubes, upto the required depth of diaphragm wall including extracting the same after casting, including chipping off the bentonite adulterated concrete or unsound concrete up to the cut off level for obtaining the sound concrete, dressing undulations on the exposed face of diaphragm wall after excavation by chipping / chiseling etc. including filling the depression/ cavities with sound concrete etc. complete and as directed by the Engineer-in-charge, including providing recess for bearing plates and fixing insert boxes for inclined rock anchors etc. complete as per the specifications and approved design and as directed by the Engineer-in- charge, .but excluding the cost of reinforcement and inserts. (rates include cost of all inputs of labour, material and T & P, cost of handling, lifting & placing in position the reinforcement cage in the trench, including the additional cost of welding the reinforcement bars etc. involved in the work and all other incidental expenditure for completing the work as directed by the Engineer-in-charge), However, the actual area of the diaphragm wall, correct to two places of decimal, from design bottom level to the design cut off level (including portion anchored in the rock upto the design bottom level) only shall be measured for payment. Excess/less cement used for design mix including the extra cement required for under water concreting is payable / recoverable separately.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 144.0 cum</i>				
	Analysis for 20x12=240 Sqmt area of diaphragm wall				
	Average depth 12 m				
	Thickness 0.60 m				
	Total Quantity 20 mx12 m x0.6 m= 144.00 cum				
0082	Excavation of Diaphragm wall by Mechanical Grab	sqm	240.000	1500.00	360000.00
	Guide wall RCC 1:2:4RCC 2x20x(0.45+1.5)x.15 = 11.70 cum				
5.1.3	Rate as per Item Number 5.1.3 of SH:				
	Reinforced cement concrete work	cum	11.700	5725.90	66993.03A
	Reinforcement@ 70 kg/Cum for guide wall				
	= 11.70x 70 kg/cum= 819 kg				
5.22.6	Rate as per Item Number 5.22.6 of SH:				
	Reinforced Cement Concrete	kilogram	819.000	68.10	55773.90A
	Add for chipping/dismantling top 50 cm contaminated concrete =20 x 0.50 x 0.60= 6.00 cum				
	RMC M-30 as per qty=144.00 cumAdd 10% extra for bulges etc. i.e. 14.40 cumTotal=144.00+6.00				
	+14.40= 164.40 cum				
5.33.1	Rate as per Item Number 5.33.1 of SH:				
	Reinforced cement concrete work	cum	164.400	6296.15	1035087.06A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
5.34.1	Rate as per Item Number 5.34.1 of SH: Reinforced cement concrete work Bentonite @6% of RCC qtyTotal Qty= 164.4x06 x1400/100= 13810 kg=13.81 tonne	cum	164.400	76.50	12576.60A
7183	Bentonite Add 10 %extra cement due to concreting under water 164.4x420x0.10=6.90 tonne	tonne	13.810	3100.00	42811.00
0367	Portland Cement Add cement for grouting of wall using nozzles etc. - 240 sqm @ 0.10 quintal/sqm =2.40 tonne	tonne	6.900	6300.00	43470.00
0367	Portland Cement	tonne	2.400	6300.00	15120.00
2209	Carriage of cement	tonne	2.400	94.65	227.16
0025	Hire and running charges of light crane Reinforcement @220 kg/cum164.4x220kg/cum =36168 kgExtra reinforcement for hooks @ 5% of cage 1808.4 kgTotal=1808.4 kg=18.084 qtl	day	1.000	2200.00	2200.00
1005	Twisted steel/ deformed bars Extra for welding reinforcement cage Reinforcement @ 200 C/C 2*101*61 = 6161 joints Welding for alternate joint say 50 % joints 6161 cm	quintal	18.084	4759.00	86061.76
10.22	Rate as per Item Number 10.22 of SH: 10 Steel work	cm	6161.000	2.85	17558.85A
9999	Labour for grouting diaphragm wall under pressure i/c fixing nozzle etc.Add for use retarders/plasticizers for the diaphragm wall concreting using trimme @ 0.4 % cement qty = (164.4*420*0.4)/100=276.19	L.S.	23530.000	1.78	41883.40
7318	Plasticizer / super plasticizer	kilogram	276.190	38.00	10495.22
8954	Stop end tubes for diaphragmwall 600 mm dia.	sqm	240.000	4.50	1080.00
8955	Driving end tubes for diaphragm wall 600 mm dia.	sqm	240.000	72.00	17280.00
0026	Hire and running charges of bentonite pump Bentonite powder @ 6% of R.C.C. Qty= (164.4 Cum* 0.06)=9.864 cum 9.864 cum x 1400 kg/cum = 13809.6 kg Disposal of bentonite muck Slurry / Muck vol. 49.32 cum Add excavated earth = 144.00 cum Total= 144.00 + 49.32 = 193.32 cum	day	2.000	4200.00	8400.00
15.60	Rate as per Item Number 15.60 of SH: 15 Dismantling and Demolishing Disposal of Chipping / Dismantling of contaminated concrete and guide wall etc. with all leads as per item no. 15.3 = 2x(20x0.50x0.60) + 15.00 cum = 20.40 cum	cum	193.320	123.70	23913.68A
15.3	Rate as per Item Number 15.3 of SH: Dismantling and demolishing	cum	20.400	1302.30	26566.92A
9999	Sundries(Extra for concreting by Trimme)	L.S.	1177.000	1.78	2095.06
9999	Sundries (Design Charges)	L.S.	19200.000	1.78	34176.00
	TOTAL				1903769.64
	Add Water Charges @ 1% except on A i.e on (19,03,769.64 - 12,38,470.04 =) 6,65,299.60				6653.00
	TOTAL				1910422.64
	Add CPOH @ 15% except on A i.e on (19,10,422.64 - 12,38,470.04 =) 6,71,952.60				100792.89
	Cost of 144.00 cum				2011215.53
	Cost of 1 cum				13966.77
	Say				13966.75

SUB HEAD : 6.0
BRICK WORK

6.1 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in :

6.1.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.000	4500.00	2223.00
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.250	4172.05	1043.01
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.360	435.00	156.60
0124	Mason (brick layer) 2nd class	day	0.360	399.00	143.64
0115	Coolie	day	1.370	329.00	450.73
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				4234.72
	Add Water Charges @ 1%				42.35
	TOTAL				4277.07
	Add CPOH @ 15%				641.56
	Cost of 1 cum				4918.63
	Say				4918.65

6.1.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.000	4500.00	2223.00
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.250	3340.75	835.19
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.360	435.00	156.60
0124	Mason (brick layer) 2nd class	day	0.360	399.00	143.64
0115	Coolie	day	1.370	329.00	450.73
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				4026.90
	Add Water Charges @ 1%				40.27
	TOTAL				4067.17
	Add CPOH @ 15%				610.08
	Cost of 1 cum				4677.25
	Say				4677.25

6.2 Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in :

6.2.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.000	4850.00	2361.95
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
	Cement mortar 1 :4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.220	4172.05	917.85
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.330	435.00	143.55
0124	Mason (brick layer) 2nd class	day	0.330	399.00	131.67
0115	Coolie	day	1.000	329.00	329.00
0101	Bhisti	day	0.180	363.00	65.34
	TOTAL				4092.51
	Add Water Charges @ 1%				40.93
	TOTAL				4133.44
	Add CPOH @ 15%				620.02
	Cost of 1 cum				4753.46
	Say				4753.45

6.2.2 Cement Mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.000	4850.00	2361.95
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
	Cement mortar 1 :6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.220	3340.75	734.96
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.330	435.00	143.55
0124	Mason (brick layer) 2nd class	day	0.330	399.00	131.67
0115	Coolie	day	1.000	329.00	329.00
0101	Bhisti	day	0.180	363.00	65.34
	TOTAL				3909.62
	Add Water Charges @ 1%				39.10
	TOTAL				3948.72
	Add CPOH @ 15%				592.31
	Cost of 1 cum				4541.03
	Say				4541.05

6.3 Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :

6.3.1 With F.P.S. (non modular) bricks

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.000	4600.00	2272.40
2201	Carriage of bricks Cement mortar 1 :6	1000 Nos	494.000	283.96	140.28
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.250	3340.75	835.19
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.470	435.00	204.45
0124	Mason (brick layer) 2nd class	day	0.470	399.00	187.53
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
9999	Scaffolding	L.S.	22.360	1.78	39.80
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				4721.08
	Add Water Charges @ 1%				47.21
	TOTAL				4768.29
	Add CPOH @ 15%				715.24
	Cost of 1 cum				5483.53
	Say				5483.55

6.3.2 With Modular bricks

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	487.000	5350.00	2605.45
2201	Carriage of bricks Cement mortar 1:6	1000 Nos	487.000	283.96	138.29
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.220	3340.75	734.96
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.440	435.00	191.40
0124	Mason (brick layer) 2nd class	day	0.440	399.00	175.56
0115	Coolie	day	1.430	329.00	470.47
0101	Bhisti	day	0.180	363.00	65.34
9999	Scaffolding	L.S.	16.380	1.78	29.16

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Extra labour element required for lifting of materials (above floor two level upto floor five level) Coolie	day	1.130	329.00	371.77
	TOTAL				4787.26
	Add Water Charges @ 1%				47.87
	TOTAL				4835.13
	Add CPOH @ 15%				725.27
	Cost of 1 cum				5560.40
	Say				5560.40

6.4 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :

6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.000	4500.00	2223.00
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.250	4172.05	1043.01
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.470	435.00	204.45
0124	Mason (brick layer) 2nd class	day	0.470	399.00	187.53
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
9999	Scaffolding	L.S.	22.360	1.78	39.80
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				4879.50
	Add Water Charges @ 1%				48.80
	TOTAL				4928.30
	Add CPOH @ 15%				739.24
	Cost of 1 cum				5667.54
	Say				5667.55

6.4.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.000	4500.00	2223.00
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.250	3340.75	835.19
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.470	435.00	204.45
0124	Mason (brick layer) 2nd class	day	0.470	399.00	187.53
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding Extra labour element required for lifting of materials (above floor two level upto floor five level)	L.S.	22.360	1.78	39.80
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				4671.68
	Add Water Charges @ 1%				46.72
	TOTAL				4718.40
	Add CPOH @ 15%				707.76
	Cost of 1 cum				5426.16
	Say				5426.15
6.5	Extra for brick work/ AAC block masonry/ Tile brick masonry in super structure above floor V level, for each four floors or part thereof by mechanical means.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5.3 cum per four floors</i>				
0037	Mobile crane	day	0.125	7000.00	875.00
	Fuel consumption per hour = 8 litre				
1235	Diesel oil	litre	8.000	55.49	443.92
	TOTAL				1318.92
	Add Water Charges @ 1%				13.19
	TOTAL				1332.11
	Add CPOH @ 15%				199.82
	Cost of 5.3 cum				1531.93
	Cost of 1 cum				289.04
	Say				289.05
6.6	Extra for forming cavity 5 cm to 7.5 cm wide in cavity walls with necessary weep and vent holes including use of cores and cost of providing and fixing bitumastic coated M.S. ties 300 mm long of 25x3 mm section at not less than 3 ties per sqm as per approved design.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Mild steel 25mmx3mm section 30cm long 30 No. = 9 metres @ 0.6kg/m = 5.40 kg				
1008	Flats up to 10 mm in thickness	quintal	0.054	4200.00	226.80
9999	Painting the steel with bitumen	L.S.	13.520	1.78	24.07
2205	Carriage of steel	tonne	0.005	94.65	0.47
	Extra labour for keeping cavity clear and fixing wall ties and delay caused				
0123	Mason (brick layer) 1 st class	day	0.370	435.00	160.95
0124	Mason (brick layer) 2nd class	day	0.370	399.00	147.63
0114	Beldar	day	0.920	329.00	302.68
9999	Add for use of Core	L.S.	4.550	1.78	8.10
	TOTAL				870.70
	Add Water Charges @ 1%				8.71
	TOTAL				879.41
	Add CPOH @ 15%				131.91
	Cost of 10 sqm				1011.32
	Cost of 1 sqm				101.13
	Say				101.15

6.7 Providing half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure for closing cavity 5 to 7.5 cm wide in cavity wall complete with 10 cm /11.4 cm wide bitumen felt type 3 grade 1.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10m length</i>				
	MATERIAL:				
	Half brick masonry 1:3 (Average)				
	1x10x0.27 = 2.7 sqm				
6.12.1	Rate as per Item Number 6.12.1 of SH: Brick work	sqm	2.700	611.80	1651.86A
	Bitumen felt type- 3 grade 1 1x10mx11.4m =1.14 sqm.				
	Add for wastage and overlapping @ 5% = 0.06 sqm.				
	Total = 1.20 sqm				
0322	Bitumen felt :Type 3 grade 1	sqm	1.200	70.00	84.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.120	435.00	52.20
0124	Mason (brick layer) 2nd class	day	0.120	399.00	47.88
0114	Beldar	day	0.060	329.00	19.74
	TOTAL				1855.68
	Add Water Charges @ 1% except on A i.e on (1,855.68 - 1,651.86 =) 203.82				2.04
	TOTAL				1857.72
	Add CPOH @ 15% except on A i.e on (1,857.72 - 1,651.86 =) 205.86				30.88
	Cost of 10 metre				1888.60
	Cost of 1 metre				188.86
	Say				188.85

6.8 Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	377.000	4500.00	1696.50
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.181	5003.35	905.61
2201	Carriage of bricks	1000 Nos	377.000	283.96	107.05
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.720	435.00	313.20
0124	Mason (brick layer) 2nd class	day	0.720	399.00	287.28
0115	Coolie	day	1.760	329.00	579.04
0101	Bhisti	day	0.360	363.00	130.68
9999	Sundries and scaffolding	L.S.	7.150	1.78	12.73
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.290	329.00	424.41
	TOTAL				4456.50
	Add Water Charges @ 1%				44.56
	TOTAL				4501.06
	Add CPOH @ 15%				675.16
	Cost of 10 sqm				5176.22
	Cost of 1 sqm				517.62
	Say				517.60

6.9 Brick work in plain arches in superstructure above plinth level and upto floor five level including centering and shuttering complete for span up to 6 metres with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.000	4500.00	2223.00
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.250	5003.35	1250.84
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
9999	Sundries	L.S.	2.730	1.78	4.86
	Centering and Shuttering: Taking a semi circular arch 3.6m span, 3.6m long and 0.40m thick Area of centering = $3.142 \times 1.8 \times 3.6 = 20.37$ sqm. Brick work in Arch = $3.142 \times 2.00 \times 0.4 \times 3.6 = 9.05$ cum. Area per cum = $20.37 / 9.05 = 2.25$ sqm				
5.9.9	Rate as per Item Number 5.9.9 of SH:				
	Reinforced cement concrete work	sqm	2.250	1066.30	2399.17A
9999	Scaffolding	L.S.	18.850	1.78	33.55
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.530	435.00	230.55
0124	Mason (brick layer) 2nd class	day	0.530	399.00	211.47
0115	Coolie	day	2.290	329.00	753.41
0101	Bhisti	day	0.200	363.00	72.60
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				7691.50
	Add Water Charges @ 1% except on A i.e on (7,691.50 - 2,399.17 =) 5,292.33				52.92
	TOTAL				7744.42
	Add CPOH @ 15% except on A i.e on (7,744.42 - 2,399.17 =) 5,345.25				801.79
	Cost of 1 cum				8546.21
	Say				8546.20

6.10 Brick work in gauged arches in superstructure above plinth level and upto floor five level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering and shuttering complete, for span up to 6 meters with common burnt clay F.P.S. (non modular) bricks of class designation 7.5.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	538.000	4500.00	2421.00
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.250	5003.35	1250.84
2201	Carriage of bricks	1000 Nos	538.000	283.96	152.77
9999	Sundries	L.S.	2.730	1.78	4.86
	Centring and shuttering (area same as in item No. 6.9)				
5.9.9	Rate as per Item Number 5.9.9 of SH:				
	Reinforced cement concrete work	sqm	2.250	1066.30	2399.17A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	18.850	1.78	33.55
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.130	435.00	491.55
0124	Mason (brick layer) 2nd class	day	1.130	399.00	450.87
0115	Coolie	day	4.420	329.00	1454.18
0101	Bhisti	day	0.200	363.00	72.60
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				9103.16
	Add Water Charges @ 1% except on A i.e on (9,103.16 - 2,399.17 =) 6,703.99				67.04
	TOTAL				9170.20
	Add CPOH @ 15% except on A i.e on (9,170.20 - 2,399.17 =) 6,771.03				1015.65
	Cost of 1 cum				10185.85
	Say				10185.85

6.11 Extra for additional cost of centering for arches exceeding 6m span including all shuttering, bolting, wedging and removal (Area of the soffit to be measured).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 33.31 sqm</i>				
	MATERIAL:				
	Centering and shuttering for arches and carved surface exceeding 6m in span (an average of 8m) Radius R = 5m				
	$2R-2=4+4$				
	$\tan^{-1} (4/3)=53.28^\circ$				
	$2 \times 53.28^\circ=106^\circ$				
	Surface area				
	$=2 \times 22/7 \times 5 \times 3.6 \times 106/360=33.3 \text{ sqm.}$				
	Arc=9.25m				
	Material: Tie- $2 \times 8 \times 0.18 \times 0.05 =0.144 \text{ cum}$				
	Struts- $2 \times 2.5 \times 0.1 \times 0.1 =0.050 \text{ cum.}$				
	Struts- $2 \times 1.77 \times 0.1 \times 0.1 =0.035 \text{ cum.}$				
	Ribs- $6 \times 1.54 \times 0.23 \times 0.1 =0.213 \text{ cum.}$				
	Struts- $2 \times 1.72 \times 0.1 \times 0.1 =0.034 \text{ cum.}$				
	Total=0.476cum.				
	For four such frames =0.476x4=1.904 cum.				
	laggings- $75 \times 3.6 \times 0.125 \times 0.075= 2.531 \text{ cum.}$				
	Tie- $2 \times 3.6 \times 0.225 \times 0.038=0.062 \text{ cum.}$				
	Brace- $3 \times 2 \times 2.14 \times 0.225 \times 0.038=0.110$				
	Brace- $3 \times 4 \times 3.8 \times 0.225 \times 0.038=0.390$				
	Sleepers- $4 \times 3.6 \times 0.20 \times 0.15=0.432$				
	Sleepers- $2 \times 4 \times 3.6 \times 0.175 \times 0.075=0.378$				
	Vertical post- $4 \times 4 \times 3.6 \times 0.15 \times 0.15=1.296$				
	Total =7.103cum.				
	Qty taken as 1/8th of qty for cost of using once				
	= 7.103/8 = 0.8885 cum (887.90 cumdm)				

1197	Second class kail wood in scantling	10 cudm	887.900	260.00	23085.40
2204	Carriage of timber	cum	0.888	121.70	108.06
	Fittings:3 way straps 50mmx10mm = 32 Nos. 32 no. @ 0.50cm each = 16m Straps-50mmx 10mm = 8 Nos.@ 0.25cm each = 2m Total = 18m 18m @ 3.9kg/m = 70.2 kg.= 0.702qtl. Qty taken 1/8th of qty for cost using once = 0.702/8 = 0.0878 qtl.				
1225	Mild steel flat strap fitting	quintal	0.088	5000.00	439.00
	Bolts 160 Nos. 254 mm long 16mm dia.- 160x 0.254x1.58=64.21 kg=0.64qtl. Qty taken 1/8th of qty for cost using once = 0.64/8 = 0.08 qtl				
1034	Bolts and nuts up to 300 mm in length	quintal	0.080	5600.00	448.00
	Carriage of steel = 0.1342 t Qty taken 1/8th of qty for cost using once = 0.1342/8 = 0.0168 tonne				
2302	Carriage of G.I.sheet and accessories	tonne	0.017	94.65	1.59
	LABOUR:				
0112	Carpenter 2nd class	day	28.000	399.00	11172.00
0114	Beldar	day	24.000	329.00	7896.00
9999	Sundries	L.S.	134.550	1.78	239.50
	Less cost of shattering etc. for an arch exceeding 6m span i.e. for an average of 8 m span				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	-33.310	1066.30	-35518.45A
	TOTAL				7871.10
	Add Water Charges @ 1% except on A i.e on (7,871.10 - -35,518.45 =) 43,389.55				433.90
	TOTAL				8305.00
	Add CPOH @ 15% except on A i.e on (8,305.00 - -35,518.45 =) 43,823.45				6573.52
	Cost of 33.31 sqm				14878.52
	Cost of 1 sqm				446.67
	Say				446.65

6.12 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :

6.12.1 Cement mortar 1:3 (1 cement : 3 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.000	4500.00	2542.50
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.280	5003.35	1400.94
2201	Carriage of bricks	1000 Nos	565.000	283.96	160.44
9999	Sundries & scaffolding	L.S.	13.520	1.78	24.07
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0123	Mason (brick layer) 1 st class	day	0.450	435.00	195.75
0124	Mason (brick layer) 2nd class	day	0.450	399.00	179.55
0115	Coolie	day	1.550	329.00	509.95
0101	Bhisti	day	0.700	363.00	254.10
	TOTAL				5267.30
	Add Water Charges @ 1%				52.67
	TOTAL				5319.97
	Add CPOH @ 15%				798.00
	Cost of 10 sqm				6117.97
	Cost of 1 sqm				611.80
	Say				611.80

6.12.2 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.000	4500.00	2542.50
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.280	4172.05	1168.17
2201	Carriage of bricks	1000 Nos	565.000	283.96	160.44
9999	Sundries & scaffolding	L.S.	13.520	1.78	24.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.450	435.00	195.75
0124	Mason (brick layer) 2nd class	day	0.450	399.00	179.55
0115	Coolie	day	1.550	329.00	509.95
0101	Bhisti	day	0.700	363.00	254.10
	TOTAL				5034.53
	Add Water Charges @ 1%				50.35
	TOTAL				5084.88
	Add CPOH @ 15%				762.73
	Cost of 10 sqm				5847.61
	Cost of 1 sqm				584.76
	Say				584.75

6.13 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.

6.13.1 Cement mortar 1:3 (1 cement :3 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.000	4500.00	2542.50
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.280	5003.35	1400.94
2201	Carriage of bricks	1000 Nos	565.000	283.96	160.44
9999	Sundries & scaffolding	L.S.	13.520	1.78	24.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.600	435.00	261.00
0124	Mason (brick layer) 2nd class	day	0.600	399.00	239.40

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Extra labour for lifting materials: 10 x 0.115 x 0.75 x1.5				
0115	Coolie	day	2.000	329.00	658.00
0101	Bhisti	day	0.700	363.00	254.10
0115	Coolie	day	1.290	329.00	424.41
	TOTAL				5964.86
	Add Water Charges @ 1%				59.65
	TOTAL				6024.51
	Add CPOH @ 15%				903.68
	Cost of 10 sqm				6928.19
	Cost of 1 sqm				692.82
	Say				692.80

6.13.2 Cement mortar 1:4 (1 cement :4 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.000	4500.00	2542.50
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.280	4172.05	1168.17
2201	Carriage of bricks	1000 Nos	565.000	283.96	160.44
9999	Sundries & scaffolding	L.S.	13.520	1.78	24.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.600	435.00	261.00
0124	Mason (brick layer) 2nd class	day	0.600	399.00	239.40
0115	Coolie	day	2.000	329.00	658.00
0101	Bhisti	day	0.700	363.00	254.10
	Extra labour for lifting materials: 10 x 0.115 x 0.75 x1.5				
0115	Coolie	day	1.290	329.00	424.41
	TOTAL				5732.09
	Add Water Charges @ 1%				57.32
	TOTAL				5789.41
	Add CPOH @ 15%				868.41
	Cost of 10 sqm				6657.82
	Cost of 1 sqm				665.78
	Say				665.80

6.14 Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.

Code No	Description	Unit	Quantity	Rate	Amount
	<i>Details of cost for 59.83 sqm per four floors</i>				
0037	Mobile crane	day	0.125	7000.00	875.00
	Fuel consumption per hour = 8 litre				
1235	Diesel oil	litre	8.000	55.49	443.92
	TOTAL				1318.92
	Add Water Charges @ 1%				13.19
	TOTAL				1332.11
	Add CPOH @ 15%				199.82
	Cost of 59.83 sqm				1531.93
	Cost of 1 sqm				25.60
	Say				25.60

6.15 Extra for providing and placing in position 2 Nos 6 mm dia M.S bars at every third course of half brick masonry.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	6mm dia. M.S. bars (round) 2 Nos. @ 30 meter/10sqm. = 60 metre @ 0.22kg/m =13.2 kg				
1002	Mild steel round bar 12 mm dia and below	quintal	0.132	4500.00	594.00
2205	Carriage of steel	tonne	0.013	94.65	1.25
9999	Sundries	L.S.	1.820	1.78	3.24
	TOTAL				598.49
	Add Water Charges @ 1%				5.98
	TOTAL				604.47
	Add CPOH @ 15%				90.67
	Cost of 10 sqm				695.14
	Cost of 1 sqm				69.51
	Say				69.50

6.16 Tile brick masonry with common burnt clay tile bricks of class designation 10 in foundation and plinth in :

6.16.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.000	5200.00	4040.40
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.400	4172.05	1668.82
2207	Carriage of brick tiles	1000 Nos	777.000	170.38	132.39
9999	Sundries	L.S.	4.550	1.78	8.10
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.700	435.00	304.50
0124	Mason (brick layer) 2nd class	day	0.700	399.00	279.30
0115	Coolie	day	1.540	329.00	506.66
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				7012.77
	Add Water Charges @ 1%				70.13
	TOTAL				7082.90
	Add CPOH @ 15%				1062.44
	Cost of 1 cum				8145.34
	Say				8145.35

6.16.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.000	5200.00	4040.40
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.400	3340.75	1336.30

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2207	Carriage of brick tiles	1000 Nos	777.000	170.38	132.39
9999	Sundries	L.S.	4.550	1.78	8.10
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.700	435.00	304.50
0124	Mason (brick layer) 2nd class	day	0.700	399.00	279.30
0115	Coolie	day	1.540	329.00	506.66
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				6680.25
	Add Water Charges @ 1%				66.80
	TOTAL				6747.05
	Add CPOH @ 15%				1012.06
	Cost of 1 cum				7759.11
	Say				7759.10

6.17 Tile brick masonry with common burnt clay machine moulded tile bricks of class designation 12.5 conforming to IS : 2690 (Part I) in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	777.000	5250.00	4079.25
2207	Carriage of brick tiles	1000 Nos	777.000	170.38	132.39
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.400	3340.75	1336.30
9999	Sundries	L.S.	4.550	1.78	8.10
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.700	435.00	304.50
0124	Mason (brick layer) 2nd class	day	0.700	399.00	279.30
0115	Coolie	day	1.540	329.00	506.66
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				6719.10
	Add Water Charges @ 1%				67.19
	TOTAL				6786.29
	Add CPOH @ 15%				1017.94
	Cost of 1 cum				7804.23
	Say				7804.25

6.18 Tile brick masonry with common burnt clay tile bricks of class designation 10 in superstructure above plinth level up to floor V level in cement mortar 1:6 (1 cement : 6 coarse sand).

Code No	Description	Unit	Quantity	Rate	Amount
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.000	5200.00	4040.40
2207	Carriage of brick tiles	1000 Nos	777.000	170.38	132.39
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.400	3340.75	1336.30

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	4.550	1.78	8.10
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.900	435.00	391.50
0124	Mason (brick layer) 2nd class	day	0.900	399.00	359.10
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
	Extra labour for lifting of materials				
0115	Coolie	day	1.130	329.00	371.77
9999	Cost of scfolding	L.S.	33.800	1.78	60.16
	TOTAL				7364.52
	Add Water Charges @ 1%				73.65
	TOTAL				7438.17
	Add CPOH @ 15%				1115.73
	Cost of 1 cum				8553.90
	Say				8553.90
6.20	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in plain arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement: 4 coarse sand) including centering and shuttering complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.000	5200.00	4040.40
2207	Carriage of brick tiles	1000 Nos	777.000	170.38	132.39
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.350	4172.05	1460.22
9999	Sundries	L.S.	5.460	1.78	9.72
	Centering and shattering area same as in item number 6.9				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	2.250	1066.30	2399.17A
9999	Scaffolding	L.S.	18.850	1.78	33.55
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.790	435.00	343.65
0124	Mason (brick layer) 2nd class	day	0.790	399.00	315.21
0115	Coolie	day	3.210	329.00	1056.09
0101	Bhisti	day	0.200	363.00	72.60
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				10234.77
	Add Water Charges @ 1% except on A i.e on (10,234.77 - 2,399.17 =) 7,835.60				78.36
	TOTAL				10313.13
	Add CPOH @ 15% except on A i.e on (10,313.13 - 2,399.17 =) 7,913.96				1187.09
	Cost of 1 cum				11500.22
	Say				11500.20

6.21 Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in gauged arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	791.000	5200.00	4113.20
2207	Carriage of brick tiles	1000 Nos	791.000	170.38	134.77
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.350	4172.05	1460.22
9999	Sundries and shuttering	L.S.	5.460	1.78	9.72
	Centering and shuttering				
	Area same as in item no 6.9				
5.9.9	Rate as per Item Number 5.9.9 of SH:				
	Reinforced cement concrete work	sqm	2.250	1066.30	2399.17A
9999	Scaffolding	L.S.	18.850	1.78	33.55
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.500	435.00	652.50
0124	Mason (brick layer) 2nd class	day	1.500	399.00	598.50
0115	Coolie	day	5.330	329.00	1753.57
0101	Bhisti	day	0.200	363.00	72.60
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				11599.57
	Add Water Charges @ 1% except on A i.e on (11,599.57 - 2,399.17 =) 9,200.40				92.00
	TOTAL				11691.57
	Add CPOH @ 15% except on A i.e on (11,691.57 - 2,399.17 =) 9,292.40				1393.86
	Cost of 1 cum				13085.43
	Say				13085.45

6.22 Tile brick masonry work 5 cm thick with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth and upto floor five level.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	22.9cmx 11.2cmx5cm				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	377.000	5200.00	1960.40
2207	Carriage of brick tiles	1000 Nos	377.000	170.38	64.23
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.150	5003.35	750.50
9999	Sundries and scaffolding	L.S.	8.060	1.78	14.35
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.940	435.00	408.90
0124	Mason (brick layer) 2nd class	day	0.940	399.00	375.06
0115	Coolie	day	1.880	329.00	618.52

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.330	363.00	119.79
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.290	329.00	424.41
	TOTAL				4736.16
	Add Water Charges @ 1%				47.36
	TOTAL				4783.52
	Add CPOH @ 15%				717.53
	Cost of 10 sqm				5501.05
	Cost of 1 sqm				550.11
	Say				550.10
6.23	Honey-comb brick work 10/11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level upto floor V level with cement mortar 1:4 (1 cement : 4 coarse sand).				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1sqm of Honey comb brick work</i>				
	MATERIAL:				
	Brick work with bricks of class designation 7.5 in cement mortar 1:4 (1 Cement: 4 Coarse sand) in superstructure				
	1 m x 1 x 0.143 m x 4.5/7.5 = 0.069 cum				
6.4.1	Rate as per Item Number 6.4.1 of SH: Brick work	cum	0.069	5667.55	391.06A
9999	Extra for delay due to fine work	L.S.	20.670	1.78	36.79
	TOTAL				427.85
	Add Water Charges @ 1% except on A i.e on (427.85 - 391.06 =) 36.79				0.37
	TOTAL				428.22
	Add CPOH @ 15% except on A i.e on (428.22 - 391.06 =) 37.16				5.57
	Cost of 1 sqm				433.79
	Say				433.80
6.24	Extra for laying brick work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete. Note:- The quantity will be calculated by multiplying the depth measured from sub-soil water level upto the centre of gravity of brick work unnder sub-soil water with the quantity of brick work in cum executed under the sub-soil water. The depth of centre of gravity shall be reconed correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 14 cum per 0.3m depth</i>				
	Quantity of concrete = 14 cum.				
	Pumping hours = 3 hrs or 0.375 days				
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	600.00	225.00
0114	Beldar	day	4.000	329.00	1316.00
	TOTAL				1541.00
	Add Water Charges @ 1%				15.41
	TOTAL				1556.41
	Add CPOH @ 15%				233.46
	Cost of 4.2 cum				1789.87
	cum/mtr depth				426.16
	Say				426.15

6.25 Extra for laying brick work in or under foul position.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	Extra labour due to slow progress				
0123	Mason (brick layer) 1 st class	day	0.020	435.00	8.70
0124	Mason (brick layer) 2nd class	day	0.020	399.00	7.98
0114	Beldar	day	0.250	329.00	82.25
0115	Coolie	day	0.150	329.00	49.35
	TOTAL				148.28
	Add Water Charges @ 1%				1.48
	TOTAL				149.76
	Add CPOH @ 15%				22.46
	Cost of 1 cum				172.22
	Say				172.20

6.26 Brick work with common burnt clay selected F.P.S (non modular) bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand)**6.26.1 From ground level upto plinth level**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.000	4500.00	2223.00
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.250	3340.75	835.19
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
	For selection of bricks				
0114	Beldar	day	0.500	329.00	164.50
0123	Mason (brick layer) 1 st class	day	0.350	435.00	152.25
0124	Mason (brick layer) 2nd class	day	0.350	399.00	139.65
0115	Coolie	day	1.070	329.00	352.03
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				4108.66
	Add Water Charges @ 1%				41.09
	TOTAL				4149.75
	Add CPOH @ 15%				622.46
	Cost of 1 cum				4772.21
	Say				4772.20

6.26.2 Above plinth level and upto floor V level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.000	4500.00	2223.00
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.250	3340.75	835.19
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
	For selection of bricks in superstructure				
0114	Beldar	day	0.500	329.00	164.50
0123	Mason (brick layer) 1 st class	day	0.460	435.00	200.10
0124	Mason (brick layer) 2nd class	day	0.460	399.00	183.54
0115	Coolie	day	1.600	329.00	526.40
0101	Bhisti	day	0.200	363.00	72.60
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
9999	Sundries	L.S.	22.360	1.78	39.80
	TOTAL				4786.34
	Add Water Charges @ 1%				47.86
	TOTAL				4834.20
	Add CPOH @ 15%				725.13
	Cost of 1 cum				5559.33
	Say				5559.35

6.27 Brick work with common burnt clay modular bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10mm wide 12mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.27.1 From ground level upto plinth level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.000	4850.00	2361.95
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
	Cement mortar 1:6 (1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.220	3340.75	734.96
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.330	435.00	143.55
0124	Mason (brick layer) 2nd class	day	0.330	399.00	131.67
0115	Coolie	day	1.000	329.00	329.00
0101	Bhisti	day	0.180	363.00	65.34
	TOTAL				3933.92
	Add Water Charges @ 1%				39.34
	TOTAL				3973.26
	Add CPOH @ 15%				595.99
	Cost of 1 cum				4569.25
	Say				4569.25

6.27.2 Above plinth level and upto floor V level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.000	4850.00	2361.95
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.220	3340.75	734.96
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.440	435.00	191.40
0124	Mason (brick layer) 2nd class	day	0.440	399.00	175.56
0115	Coolie	day	1.430	329.00	470.47
0101	Bhisti	day	0.180	363.00	65.34
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
9999	Sundries	L.S.	22.360	1.78	39.80
	TOTAL				4578.70
	Add Water Charges @ 1%				45.79
	TOTAL				4624.49
	Add CPOH @ 15%				693.67
	Cost of 1 cum				5318.16
	Say				5318.15

6.28 Brick work with common burnt clay machine moulded modular bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).**6.28.1 From ground level upto plinth level**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	487.000	5500.00	2678.50
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
	Cement mortar 1:6(1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.220	3340.75	734.96
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.330	435.00	143.55
0124	Mason (brick layer) 2nd class	day	0.330	399.00	131.67
0115	Coolie	day	1.000	329.00	329.00
0101	Bhisti	day	0.180	363.00	65.34
	TOTAL				4250.47
	Add Water Charges @ 1%				42.50
	TOTAL				4292.97
	Add CPOH @ 15%				643.95
	Cost of 1 cum				4936.92
	Say				4936.90

6.28.2 Above plinth level and upto floor V level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	487.000	5500.00	2678.50
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.220	3340.75	734.96
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.440	435.00	191.40
0124	Mason (brick layer) 2nd class	day	0.440	399.00	175.56
0115	Coolie	day	1.430	329.00	470.47
0101	Bhisti	day	0.180	363.00	65.34
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
9999	Sundries	L.S.	22.360	1.78	39.80
	TOTAL				4895.25
	Add Water Charges @ 1%				48.95
	TOTAL				4944.20
	Add CPOH @ 15%				741.63
	Cost of 1 cum				5685.83
	Say				5685.85

6.29 Brick work with common burnt clay machine moulded F.P.S. (non modular) bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand)**6.29.1 From ground level upto plinth level**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.000	5000.00	2470.00
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
	Cement mortar 1:6,(1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.250	3340.75	835.19
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.360	435.00	156.60
0124	Mason (brick layer) 2nd class	day	0.360	399.00	143.64
0115	Coolie	day	1.370	329.00	450.73
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				4298.20
	Add Water Charges @ 1%				42.98
	TOTAL				4341.18
	Add CPOH @ 15%				651.18
	Cost of 1 cum				4992.36
	Say				4992.35

6.29.2 Above plinth level and upto floor V level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.000	5000.00	2470.00
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.250	3340.75	835.19
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.440	435.00	191.40
0124	Mason (brick layer) 2nd class	day	0.440	399.00	175.56
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
9999	Sundries	L.S.	22.360	1.78	39.80
	TOTAL				4917.96
	Add Water Charges @ 1%				49.18
	TOTAL				4967.14
	Add CPOH @ 15%				745.07
	Cost of 1 cum				5712.21
	Say				5712.20

6.30 Brick work with common burnt clay machine moulded perforated F.P.S. (non modular) bricks of class designation 12.5 conforming IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).**6.30.1 From ground level upto plinth level**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.000	4600.00	2272.40
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
	Cement mortar 1:6 (1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.250	3340.75	835.19
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.360	435.00	156.60
0124	Mason (brick layer) 2nd class	day	0.360	399.00	143.64
0115	Coolie	day	1.370	329.00	450.73
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				4100.60
	Add Water Charges @ 1%				41.01
	TOTAL				4141.61
	Add CPOH @ 15%				621.24
	Cost of 1 cum				4762.85
	Say				4762.85

6.30.2 Above plinth level and upto floor V level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.000	4600.00	2272.40
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.250	3340.75	835.19
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.470	435.00	204.45
0124	Mason (brick layer) 2nd class	day	0.470	399.00	187.53
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
9999	Sundries	L.S.	22.360	1.78	39.80
	TOTAL				4745.38
	Add Water Charges @ 1%				47.45
	TOTAL				4792.83
	Add CPOH @ 15%				718.92
	Cost of 1 cum				5511.75
	Say				5511.75

6.31 Brick work with common burnt clay machine moulded perforated modular bricks of class designation 12.5 conforming to IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).**6.31.1 From ground level upto plinth level**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	487.000	5350.00	2605.45
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
	Cement mortar 1:6 (1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.220	3340.75	734.96
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.330	435.00	143.55
0124	Mason (brick layer) 2nd class	day	0.330	399.00	131.67
0115	Coolie	day	1.000	329.00	329.00
0101	Bhisti	day	0.180	363.00	65.34
	TOTAL				4177.42
	Add Water Charges @ 1%				41.77
	TOTAL				4219.19
	Add CPOH @ 15%				632.88
	Cost of 1 cum				4852.07
	Say				4852.05

6.31.2 Above plinth level and upto floor V level

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	487.000	5350.00	2605.45
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.220	3340.75	734.96
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.380	1.78	29.16
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.440	435.00	191.40
0124	Mason (brick layer) 2nd class	day	0.440	399.00	175.56
0115	Coolie	day	1.430	329.00	470.47
0101	Bhisti	day	0.180	363.00	65.34
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.130	329.00	371.77
9999	Sundries	L.S.	22.360	1.78	39.80
	TOTAL				4822.20
	Add Water Charges @ 1%				48.22
	TOTAL				4870.42
	Add CPOH @ 15%				730.56
	Cost of 1 cum				5600.98
	Say				5601.00

6.32 Brick work with clay flyash F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor five level in :**6.32.1 Cement mortar 1:4 (1 cement : 4 coarse sand)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7008	F.P.S. (non modular) clay fly ash bricks class designation 7.5	1000 Nos	494.000	4600.00	2272.40
	Cement mortar 1:4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.250	4172.05	1043.01
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.470	435.00	204.45
0124	Mason (brick layer) 2nd class	day	0.470	399.00	187.53
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
9999	Scaffolding	L.S.	8.970	1.78	15.97
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5=1.13)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				4905.07
	Add Water Charges @ 1%				49.05
	TOTAL				4954.12
	Add CPOH @ 15%				743.12
	Cost of 1 cum				5697.24
	Say				5697.25

6.32.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7008	F.P.S. (non modular) clay fly ash bricks class designation 7.5	1000 Nos	494.000	4600.00	2272.40
	Cement mortar 1 : 6(1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.250	3340.75	835.19
2201	Carriage of bricks	1000 Nos	494.000	283.96	140.28
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.470	435.00	204.45
0124	Mason (brick layer) 2nd class	day	0.470	399.00	187.53
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
9999	Scaffolding	L.S.	8.970	1.78	15.97
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75x1.5= 1.13)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				4697.25
	Add Water Charges @ 1%				46.97
	TOTAL				4744.22
	Add CPOH @ 15%				711.63
	Cost of 1 cum				5455.85
	Say				5455.85

6.34 Brick work with non modular fly ash lime bricks (FALG Bricks) conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :**6.34.1 Cement mortar 1:4 (1 cement : 4 coarse sand)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7737	Fly ash bricks conforming to I.S. 12894	1000 Nos	487.000	5800.00	2824.60
	Cement mortar 1 : 4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.220	4172.05	917.85
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.470	435.00	204.45
0124	Mason (brick layer) 2nd class	day	0.470	399.00	187.53
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
9999	Scaffolding	L.S.	22.360	1.78	39.80
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75x1.5 =1.13)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				5353.95
	Add Water Charges @ 1%				53.54
	TOTAL				5407.49
	Add CPOH @ 15%				811.12
	Cost of 1 cum				6218.61
	Say				6218.60

6.34.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7737	Fly ash bricks conforming to I.S. 12894	1000 Nos	487.000	5800.00	2824.60
	Cement.mortar 1:6 (1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.220	3340.75	734.96
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.470	435.00	204.45
0124	Mason (brick layer) 2nd class	day	0.470	399.00	187.53
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
9999	Scaffolding	L.S.	22.360	1.78	39.80
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75x1.5= 1.13)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				5171.06
	Add Water Charges @ 1%				51.71
	TOTAL				5222.77
	Add CPOH @ 15%				783.42
	Cost of 1 cum				6006.19
	Say				6006.20

6.35 Brick work with modular calcium silicate bricks machine moulded conforming to IS:4139, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :**6.35.1 Cement mortar 1:4 (1 cement : 4 coarse sand)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	487.000	5700.00	2775.90
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.220	4172.05	917.85
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.470	435.00	204.45
0124	Mason (brick layer) 2nd class	day	0.470	399.00	187.53
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
9999	Scaffolding	L.S.	22.360	1.78	39.80
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.7 x 1.5 = 1.13)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				5305.25
	Add Water Charges @ 1%				53.05
	TOTAL				5358.30
	Add CPOH @ 15%				803.74
	Cost of 1 cum				6162.04
	Say				6162.05

6.35.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	487.000	5700.00	2775.90
	Cement .mortar 1:6(1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.220	3340.75	734.96
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
9999	Sundries	L.S.	2.730	1.78	4.86
0123	Mason (brick layer) 1 st class	day	0.470	435.00	204.45
0124	Mason (brick layer) 2nd class	day	0.470	399.00	187.53
0115	Coolie	day	1.800	329.00	592.20
0101	Bhisti	day	0.200	363.00	72.60
9999	Scaffolding	L.S.	22.360	1.78	39.80
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0115	Coolie	day	1.130	329.00	371.77
	TOTAL				5122.36
	Add Water Charges @ 1%				51.22
	TOTAL				5173.58
	Add CPOH @ 15%				776.04
	Cost of 1 cum				5949.62
	Say				5949.60

6.36 Brick work with modular extruded burnt fly ash clay sewer bricks (Conforming to IS: 4885) in foundation and plinth :**6.36.1 Cement Mortar 1:4 (1 cement : 4 coarse sand)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	487.000	6100.00	2970.70
	Cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.220	4172.05	917.85
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.330	435.00	143.55
0124	Mason (brick layer) 2nd class	day	0.330	399.00	131.67
0115	Coolie	day	1.000	329.00	329.00
0101	Bhisti	day	0.180	363.00	65.34
	TOTAL				4701.26
	Add Water Charges @ 1%				47.01
	TOTAL				4748.27
	Add CPOH @ 15%				712.24
	Cost of 1 cum				5460.51
	Say				5460.50

6.37 Brick work with modular extruded burnt fly ash clay sewer bricks (conforming to IS : 4885) in arches in foundation and plinth in cement mortar 1:3 (1 cement: 3 fine sand).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	487.000	6100.00	2970.70
	Cement mortar 1: 3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.250	4468.35	1117.09
2201	Carriage of bricks	1000 Nos	487.000	283.96	138.29
9999	Sundries	L.S.	2.730	1.78	4.86
	Centering and shuttering				
5.9.9	Rate as per Item Number 5.9.9 of SH:				
	Reinforced cement concrete work	sqm	2.250	1066.30	2399.17A
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.420	435.00	182.70
0124	Mason (brick layer) 2nd class	day	0.420	399.00	167.58
0115	Coolie	day	1.860	329.00	611.94
0101	Bhisti	day	0.200	363.00	72.60
	TOTAL				7664.93
	Add Water Charges @ 1% except on A i.e on (7,664.93 - 2,399.17 =) 5,265.76				52.66
	TOTAL				7717.59
	Add CPOH @ 15% except on A i.e on (7,717.59 - 2,399.17 =) 5,318.42				797.76
	Cost of 1 cum				8515.35
	Say				8515.35

6.38 Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
8655	Autoclaved aerated cement (AAC) blocks	cum	1.000	3200.00	3200.00
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.150	4172.05	625.81
	Carriage of AAC blocks as				
2208	Carriage of lime	cum	1.000	106.49	106.49
9999	Sundries	L.S.	2.730	1.78	4.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.360	435.00	156.60
0124	Mason (brick layer) 2nd class	day	0.360	399.00	143.64
0115	Coolie	day	1.370	329.00	450.73
0101	Bhisti	day	0.200	363.00	72.60
	Reinforcement bars				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
5.22.1	Rate as per Item Number 5.22.1 of SH: Reinforced cement concrete work	kilogram	13.200	64.95	857.34A
	TOTAL				5618.07
	Add Water Charges @ 1% except on A i.e on (5,618.07 - 857.34 =) 4,760.73				47.61
	TOTAL				5665.68
	Add CPOH @ 15% except on A i.e on (5,665.68 - 857.34 =) 4,808.34				721.25
	Cost of 1 cum				6386.93
	Say				6386.95

6.40 Providing and laying Gypsum panel partitions 100 mm thick with water proof Gypsum panels of size 666x500x100 mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturers specifications in superstructure above plinth level up to floor V level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm²

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
8656	Gypsum panel 666 X 500 X 100 mm size	sqm	10.000	480.00	4800.00
8657	Bonding plaster for Gypsum panel	kg	25.000	55.00	1375.00
9999	Sundries & scaffolding	L.S.	13.520	1.78	24.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				6745.57
	Add Water Charges @ 1%				67.46
	TOTAL				6813.03
	Add CPOH @ 15%				1021.95
	Cost of 10 sqm				7834.98
	Cost of 1 sqm				783.50
	Say				783.50

6.41 Extra for Gypsum panel partitions in superstructure above floor V level for every four floors or part thereof.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm. per four floors</i>				
	Extra labour for lifting of materials above floor V level				
0115	Coolie	day	1.730	329.00	569.17
	TOTAL				569.17
	Add Water Charges @ 1%				5.69
	TOTAL				574.86
	Add CPOH @ 15%				86.23
	Cost of 10 sqm				661.09
	Cost of 1 sqm				66.11
	Say				66.10

6.44 Brick edging 7 cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10m length</i>				
9999	Excavation and disposal of surplus earth	L.S.	2.730	1.78	4.86
	2nd class bricks = 42 Nos. + Add wastage @ 10% = 4.2 Nos.= 46.2 Nos.Say 46.00 Nos				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	46.000	4500.00	207.00
2201	Carriage of bricks	1000 Nos	46.000	283.96	13.06
	Cement mortat 1:4 (Rate as per item no. 3.4)				
3.4	Rate as per Item Number 3.4 of SH: Mortars	cum	0.004	3637.05	13.09
	LABOUR:				
0155	Mason (average)	day	0.100	417.00	41.70
0114	Beldar	day	0.100	329.00	32.90
0101	Bhisti	day	0.030	363.00	10.89
9999	Sundries	L.S.	2.730	1.78	4.86
	TOTAL				328.36
	Add Water Charges @ 1%				3.28
	TOTAL				331.64
	Add CPOH @ 15%				49.75
	Cost of 10 metre				381.39
	Cost of 1 metre				38.14
	Say				38.15

6.45 Half brick masonry with non modular fly ash lime Gypsum bricks (FALG bricks) of class designation 10, conforming to IS : 12894, in super structure above plinth and upto floor V level.

6.45.1 Cement mortar 1 : 3 (1 cement : 3 coarse sand)

Details of cost for 10 sqm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
7737	Fly ash bricks conforming to I.S. 12894	1000 Nos	565.000	5800.00	3277.00
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.280	5003.35	1400.94
2201	Carriage of bricks	1000 Nos	565.000	283.96	160.44
9999	Sundries & scaffolding	L.S.	13.520	1.78	24.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.600	435.00	261.00
0124	Mason (brick layer) 2nd class	day	0.600	399.00	239.40
0115	Coolie	day	2.000	329.00	658.00
0101	Bhisti	day	0.700	363.00	254.10
	Extra labour elemant required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.290	329.00	424.41
	TOTAL				6699.36
	Add Water Charges @ 1%				66.99
	TOTAL				6766.35
	Add CPOH @ 15%				1014.95
	Cost of 10 sqm				7781.30
	Cost of 1 sqm				778.13
	Say				778.15

6.45.2 Cement mortar 1 : 4 (1 cement : 4 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7737	Fly ash bricks conforming to I.S. 12894	1000 Nos	565.000	5800.00	3277.00
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.280	4172.05	1168.17
2201	Carriage of bricks	1000 Nos	565.000	283.96	160.44
9999	Sundries & scaffolding	L.S.	13.520	1.78	24.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.600	435.00	261.00
0124	Mason (brick layer) 2nd class	day	0.600	399.00	239.40
0115	Coolie	day	2.000	329.00	658.00
0101	Bhisti	day	0.700	363.00	254.10
	Extra labour element required for lifting of material (above floor two level upto floor five level.)				
0115	Coolie	day	1.290	329.00	424.41
	TOTAL				6466.59
	Add Water Charges @ 1%				64.67
	TOTAL				6531.26
	Add CPOH @ 15%				979.69
	Cost of 10 sqm				7510.95
	Cost of 1 sqm				751.10
	Say				751.10

SUB HEAD : 7.0
STONE WORK

7.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :

7.1.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1157	Stone for masonry work	cum	1.000	900.00	900.00
1154	Through and bond stone	100 Nos	7.000	1300.00	91.00
	CARRIAGE:				
2215	Carriage of Soling stone & masonry stone 7.00x24cmx24cmx39cm = 0.16 cum 1.00cum. + 0.16cum. = 1.16 cum	cum	1.160	125.28	145.32
	Cement mortar 1:6 (1 cement: 6 Coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.330	3340.75	1102.45
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.070	399.00	426.93
0114	Beldar	day	1.070	329.00	352.03
0115	Coolie	day	0.710	329.00	233.59
0101	Bhisti	day	0.090	363.00	32.67
9999	Cement concrete 1:6:12	L.S.	45.760	1.78	81.45
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				3373.31
	Add Water Charges @ 1%				33.73
	TOTAL				3407.04
	Add CPOH @ 15%				511.06
	Cost of 1 cum				3918.10
	Say				3918.10

7.2 Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.

7.2.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1157	Stone for masonry work	cum	1.000	900.00	900.00
1154	Through and bond stone	100 Nos	7.000	1300.00	91.00
2215	Carriage of Soling stone & masonry stone 7.00 x 24 cm x 24 cm x 39 cm = 0.16 cum 1.00 cum. + 0.16 cum = 1.16 cum Cement mortar 1 : 6 (1 cement : 6 coarse sand)	cum	1.160	125.28	145.32
	Cement mortar 1:6 (1 cement: 6 Coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.330	3340.75	1102.45
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.340	399.00	534.66
0114	Beldar	day	1.450	329.00	477.05
0115	Coolie	day	0.710	329.00	233.59
0101	Bhisti	day	0.090	363.00	32.67
9999	Cement concrete 1:6:12	L.S.	56.550	1.78	100.66
	Extra Labour for lifting of material upto floor five level.				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	1.130	329.00	371.77
9999	Sundries, scaffolding etc.	L.S.	15.210	1.78	27.07
	TOTAL				4016.24
	Add Water Charges @ 1%				40.16
	TOTAL				4056.40
	Add CPOH @ 15%				608.46
	Cost of 1 cum				4664.86
	Say				4664.85

7.4 Extra for random rubble masonry with hard stone in :

7.4.1 Square or rectangular pillars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.580	399.00	231.42
0115	Coolie	day	0.270	329.00	88.83
	TOTAL				320.25
	Add Water Charges @ 1%				3.20
	TOTAL				323.45
	Add CPOH @ 15%				48.52
	Cost of 1 cum				371.97
	Say				371.95

7.4.2 Circular pillars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
1157	Stone for masonry work	cum	0.290	900.00	261.00
2215	Carriage of Soling stone & masonry stone	cum	0.290	125.28	36.33
	LABOUR:				
	Labour for cutting and dressing stones				
0125	Mason (for plain stone work) 2nd class	day	1.420	399.00	566.58
0115	Coolie	day	0.350	329.00	115.15
	TOTAL				979.06
	Add Water Charges @ 1%				9.79
	TOTAL				988.85
	Add CPOH @ 15%				148.33
	Cost of 1 cum				1137.18
	Say				1137.20

7.5 Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6 m.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
1157	Stone for masonry work	cum	0.100	900.00	90.00
2215	Carriage of Soling stone & masonry stone	cum	0.100	125.28	12.53
	LABOUR:				
	Labour for cutting and dressing stones				
0125	Mason (for plain stone work) 2nd class	day	0.270	399.00	107.73
0115	Coolie	day	0.530	329.00	174.37
	TOTAL				384.63
	Add Water Charges @ 1%				3.85
	TOTAL				388.48
	Add CPOH @ 15%				58.27
	Cost of 1 cum				446.75
	Say				446.75

7.6 Coursed rubble masonry (first sort) with hard stone in foundation and plinth with :
7.6.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.300	3340.75	1002.22
1157	Stone for masonry work	cum	1.210	900.00	1089.00
1154	Through and bond stone	100 Nos	7.000	1300.00	91.00
2215	Carriage of Soling stone & masonry stone	cum	1.370	125.28	171.63
	7.00x24cmx24cmx39cm = 0.16 cum				
	1.21+0.16=1.37cum				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.120	399.00	845.88
0114	Beldar	day	1.240	329.00	407.96
0115	Coolie	day	0.710	329.00	233.59
0101	Bhisti	day	0.090	363.00	32.67
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3898.02
	Add Water Charges @ 1%				38.98
	TOTAL				3937.00
	Add CPOH @ 15%				590.55
	Cost of 1 cum				4527.55
	Say				4527.55

7.7 Coursed rubble masonry (second sort) with hard stone in foundation & plinth with :
7.7.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.300	3340.75	1002.22
1157	Stone for masonry work	cum	1.100	900.00	990.00
1154	Through and bond stone	100 Nos	7.000	1300.00	91.00
	CARRIAGE:				
2215	Carriage of Soling stone & masonry stone	cum	1.260	125.28	157.85
	7.00x24cmx24cmx39cm = 0.16 cum				
	1.10+0.16 cum = 1.26 cum				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.760	399.00	702.24
0114	Beldar	day	1.240	329.00	407.96
0115	Coolie	day	0.710	329.00	233.59
0101	Bhisti	day	0.090	363.00	32.67
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				3641.60
	Add Water Charges @ 1%				36.42
	TOTAL				3678.02
	Add CPOH @ 15%				551.70
	Cost of 1 cum				4229.72
	Say				4229.70

7.8 Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.

7.8.1 Masonry work (first sort), in cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.300	3340.75	1002.22
1157	Stone for masonry work	cum	1.210	900.00	1089.00
1154	Through and bond stone	100 Nos	7.000	1300.00	91.00
2215	Carriage of Soling stone & masonry stone 7.00 x 24 cm x24 cm x 39 cm = 0.16 cum. 1.21 cum. + 0.16 cum = 1.37 cum	cum	1.370	125.28	171.63
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.380	399.00	949.62
0114	Beldar	day	1.590	329.00	523.11
0115	Coolie	day	0.710	329.00	233.59
0101	Bhisti	day	0.090	363.00	32.67
	Extra labour for lifting of material upto floor five level.				
0115	Coolie	day	1.130	329.00	371.77
9999	Sundries, scaffolding etc.	L.S.	37.700	1.78	67.11
	TOTAL				4531.72
	Add Water Charges @ 1%				45.32
	TOTAL				4577.04
	Add CPOH @ 15%				686.56
	Cost of 1 cum				5263.60
	Say				5263.60

7.8.2 Masonry work (second sort), in cement mortar 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.300	3340.75	1002.22
1157	Stone for masonry work	cum	1.100	900.00	990.00
1154	Through and bond stone	100 Nos	7.000	1300.00	91.00
2215	Carriage of Soling stone & masonry stone 7.00 x 24 cm x24 cm x 39 cm = 0.16 cum. 1.10 cum. + 0.16 cum = 1.26 cum	cum	1.260	125.28	157.85
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.020	399.00	805.98
0114	Beldar	day	1.590	329.00	523.11
0115	Coolie	day	0.710	329.00	233.59
0101	Bhisti	day	0.090	363.00	32.67
	Extra labour for lifting of material upto floor five level.				
0115	Coolie	day	1.130	329.00	371.77
9999	Sundries, scaffolding etc.	L.S.	37.700	1.78	67.11
	TOTAL				4275.30
	Add Water Charges @ 1%				42.75
	TOTAL				4318.05
	Add CPOH @ 15%				647.71
	Cost of 1 cum				4965.76
	Say				4965.75

7.10 Extra for coursed rubble masonry with hard stone (first or second sort) in :**7.10.1 Square or rectangular pillars**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.670	399.00	267.33
0115	Coolie	day	0.270	329.00	88.83
	TOTAL				356.16
	Add Water Charges @ 1%				3.56
	TOTAL				359.72
	Add CPOH @ 15%				53.96
	Cost of 1 cum				413.68
	Say				413.70

7.10.2 Circular pillars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	Extra				
1157	Stone for masonry work	cum	0.320	900.00	288.00
2215	Carriage of Soling stone & masonry stone	cum	0.320	125.28	40.09
	LABOUR:				
	Labour for cutting and dressing				
0125	Mason (for plain stone work) 2nd class	day	1.670	399.00	666.33
0115	Coolie	day	0.350	329.00	115.15
	TOTAL				1109.57
	Add Water Charges @ 1%				11.10
	TOTAL				1120.67
	Add CPOH @ 15%				168.10
	Cost of 1 cum				1288.77
	Say				1288.75

7.11 Extra for coursed rubble masonry with hard stone (first or second sort) curved on plan for a mean radius not exceeding 6 m.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	Extra				
1157	Stone for masonry work	cum	0.110	900.00	99.00
2215	Carriage of Soling stone & masonry stone	cum	0.110	125.28	13.78
	LABOUR:				
	Labour for cutting and dressing				
0125	Mason (for plain stone work) 2nd class	day	0.330	399.00	131.67
0115	Coolie	day	0.530	329.00	174.37
	TOTAL				418.82
	Add Water Charges @ 1%				4.19
	TOTAL				423.01
	Add CPOH @ 15%				63.45
	Cost of 1 cum				486.46
	Say				486.45

7.12 Stone work in plain ashlar in super structure upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade:

7.12.1 One face dressed

7.12.1.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm</i>				
	MATERIAL:				
	Red sand stone				
	Finished work = 10 cu dm.+				
	Add wastage				
	@ 33.3% = 3.33 cu dm. Total = 13.33 cu dm				
1160	Red sand stone block	10 cu dm	13.330	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm =				
	13.33x2.30 = 30.659 kg = 0.031 t				
	tExtra labour for lifting of materials upto floor V level				
	0.01x1.50 = 0.015				
0115	Coolie	day	0.015	329.00	4.93
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	399.00	35.11
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.044	329.00	14.48
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.044	363.00	15.97
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
	TOTAL				239.76
	Add Water Charges @ 1%				2.40
	TOTAL				242.16
	Add CPOH @ 15%				36.32
	Cost of 0.01 cum				278.48
	Cost of 1 cum				27848.00
	Say				27848.00

7.12.1.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.330	70.00	93.31
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.031 t Extra labour for lifting of materials upto floor V level. 0.01x1.50=0.015				
0115	Coolie	day	0.015	329.00	4.93
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	399.00	35.11
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.044	329.00	14.48
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.044	363.00	15.97
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
	TOTAL				246.42
	Add Water Charges @ 1%				2.46
	TOTAL				248.88
	Add CPOH @ 15%				37.33
	Cost of 0.01 cum				286.21
	Cost of 1 cum				28621.00
	Say				28621.00

7.12.2 Both faces dressed.

7.12.2.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm</i>				
	MATERIAL:				
1160	Red sand stone block	10 cu dm	13.330	65.00	86.65
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.031 t Extra labour for lifting of materials upto floor V level 0.01x1.50 = 0.015				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.015	329.00	4.93
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	399.00	70.22
0102	Blacksmith 1 st class	day	0.012	435.00	5.22
0114	Beldar	day	0.088	329.00	28.95
0115	Coolie	day	0.044	329.00	14.48
0100	Bandhani	day	0.088	363.00	31.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
	TOTAL				315.16
	Add Water Charges @ 1%				3.15
	TOTAL				318.31
	Add CPOH @ 15%				47.75
	Cost of 0.01 cum				366.06
	Cost of 1 cum				36606.00
	Say				36606.00

7.12.2.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.330	70.00	93.31
	Finished work = 10 cu dm.+				
	Add wastage @ 33.3% =				
	3.33 cu dm. Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red				
	sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg =				
	0.031 t				
	tExtra labour for lifting of material upto floor				
	V level 0.01x1.50 = 0.015				
0115	Coolie	day	0.015	329.00	4.93
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	399.00	70.22
0102	Blacksmith 1 st class	day	0.012	435.00	5.22
0114	Beldar	day	0.088	329.00	28.95
0115	Coolie	day	0.044	329.00	14.48
0100	Bandhani	day	0.088	363.00	31.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
	TOTAL				321.82
	Add Water Charges @ 1%				3.22
	TOTAL				325.04
	Add CPOH @ 15%				48.76
	Cost of 0.01 cum				373.80
	Cost of 1 cum				37380.00
	Say				37380.00
7.13	Stone work plain ashlar in arches in superstructure upto floor V level in cement mortar 1 : 3 (1 cement : 3 coarse sand) including centring, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.				
7.13.1	One face dressed				
7.13.1.1	Red sand stone				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cu dm or 0.01 cum				
	MATERIAL:				
1160	Red sand stone block	10 cu dm	13.330	65.00	86.65
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = tonne say 0.031 t Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	399.00	35.11
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.044	329.00	14.48
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.044	363.00	15.97
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
9999	Centering and shuttering	L.S.	13.520	1.78	24.07
9999	Extra for using white cement	L.S.	8.060	1.78	14.35
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				278.18
	Add Water Charges @ 1%				2.78
	TOTAL				280.96
	Add CPOH @ 15%				42.14
	Cost of 0.01 cum				323.10
	Cost of 1 cum				32310.00
	Say				32310.00

7.13.1.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1161	White sand stone block Finished work = 10 cu dm. Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm	10 cu dm	13.330	70.00	93.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t Dressing charges	tonne	0.031	94.65	2.93
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	399.00	35.11
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.044	329.00	14.48
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.044	363.00	15.97
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
9999	Centering and shuttering	L.S.	13.520	1.78	24.07
9999	Extra for using white cement	L.S.	8.060	1.78	14.35
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				284.84
	Add Water Charges @ 1%				2.85
	TOTAL				287.69
	Add CPOH @ 15%				43.15
	Cost of 0.01 cum				330.84
	Cost of 1 cum				33084.00
	Say				33084.00

7.13.2 Both faces dressed

7.13.2.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1160	Red sand stone block Finished work = 10 cu dm. Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm	10 cu dm	13.330	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t Dressing charges	tonne	0.031	94.65	2.93

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	399.00	70.22
0102	Blacksmith 1 st class	day	0.012	435.00	5.22
0114	Beldar	day	0.088	329.00	28.95
0115	Coolie	day	0.044	329.00	14.48
0100	Bandhani	day	0.088	363.00	31.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
9999	Centering and shuttering	L.S.	13.520	1.78	24.07
9999	Extra for using white cement	L.S.	8.060	1.78	14.35
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				353.58
	Add Water Charges @ 1%				3.54
	TOTAL				357.12
	Add CPOH @ 15%				53.57
	Cost of 0.01 cum				410.69
	Cost of 1 cum				41069.00
	Say				41069.00

7.13.2.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.330	70.00	93.31
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	399.00	70.22
0102	Blacksmith 1 st class	day	0.012	435.00	5.22
0114	Beldar	day	0.088	329.00	28.95
0115	Coolie	day	0.044	329.00	14.48
0100	Bandhani	day	0.088	363.00	31.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
9999	Centering and shuttering	L.S.	13.520	1.78	24.07
9999	Extra for using white cement	L.S.	8.060	1.78	14.35
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				360.24
	Add Water Charges @ 1%				3.60
	TOTAL				363.84
	Add CPOH @ 15%				54.58
	Cost of 0.01 cum				418.42
	Cost of 1 cum				41842.00
	Say				41842.00

7.14 Stone work plain ashlar in domes, in super structure upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand) including centring, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.14.1 One face dressed

7.14.1.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1160	Red sand stone block	10 cu dm	13.330	65.00	86.65
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	399.00	70.22
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0126	Mason (for ornamental stone work) 1 st class	day	0.176	435.00	76.56
0114	Beldar	day	0.044	329.00	14.48
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.044	363.00	15.97
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
9999	Centering and shuttering	L.S.	33.150	1.78	59.01
9999	Extra for using white cement	L.S.	8.060	1.78	14.35

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015) Coolie	day	0.015	329.00	4.93
	TOTAL				424.79
	Add Water Charges @ 1%				4.25
	TOTAL				429.04
	Add CPOH @ 15%				64.36
	Cost of 0.01 cum				493.40
	Cost of 1 cum				49340.00
	Say				49340.00

7.14.1 One face dressed

7.14.1.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.330	70.00	93.31
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	399.00	70.22
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0126	Mason (for ornamental stone work) 1 st class	day	0.176	435.00	76.56
0114	Beldar	day	0.044	329.00	14.48
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.044	363.00	15.97
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
9999	Centering and shuttering	L.S.	33.150	1.78	59.01
9999	Extra for using white cement	L.S.	8.060	1.78	14.35
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				431.45
	Add Water Charges @ 1%				4.31
	TOTAL				435.76
	Add CPOH @ 15%				65.36
	Cost of 0.01 cum				501.12
	Cost of 1 cum				50112.00
	Say				50112.00

7.14.2 Both faces dressed**7.14.2.1 Red sand stone**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1160	Red sand stone block	10 cu dm	13.330	65.00	86.65
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% =				
	3.33 cu dm. Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.352	399.00	140.45
0102	Blacksmith 1 st class	day	0.012	435.00	5.22
0126	Mason (for ornamental stone work) 1 st class	day	0.352	435.00	153.12
0114	Beldar	day	0.088	329.00	28.95
0115	Coolie	day	0.044	329.00	14.48
0100	Bandhani	day	0.088	363.00	31.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
9999	Centering and shuttering	L.S.	33.150	1.78	59.01
9999	Extra for using white cement	L.S.	8.060	1.78	14.35
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				611.87
	Add Water Charges @ 1%				6.12
	TOTAL				617.99
	Add CPOH @ 15%				92.70
	Cost of 0.01 cum				710.69
	Cost of 1 cum				71069.00
	Say				71069.00

7.14.2.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.330	70.00	93.31
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.352	399.00	140.45
0102	Blacksmith 1 st class	day	0.012	435.00	5.22
0126	Mason (for ornamental stone work) 1 st class	day	0.352	435.00	153.12
0114	Beldar	day	0.088	329.00	28.95
0115	Coolie	day	0.044	329.00	14.48
0100	Bandhani	day	0.088	363.00	31.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
9999	Centering and shuttering	L.S.	33.150	1.78	59.01
9999	Extra for using white cement	L.S.	8.060	1.78	14.35
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				618.53
	Add Water Charges @ 1%				6.19
	TOTAL				624.72
	Add CPOH @ 15%				93.71
	Cost of 0.01 cum				718.43
	Cost of 1 cum				71843.00
	Say				71843.00

7.15 Stone work ashlar punched (ordinary) in superstructure upto floor five level in cement mortar 1:6 (1 white cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.15.1 One face punched

7.15.1.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1160	Red sand stone block	10 cu dm	13.330	65.00	86.65
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.059	399.00	23.54
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.044	329.00	14.48
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.044	363.00	15.97
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
	Extra labour for lifting of materials upto floorV level= 0.01x1.50 = 0.015				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				228.19
	Add Water Charges @ 1%				2.28
	TOTAL				230.47
	Add CPOH @ 15%				34.57
	Cost of 0.01 cum				265.04
	Cost of 1 cum				26504.00
	Say				26504.00

7.15.1.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.330	70.00	93.31
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.059	399.00	23.54
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.044	329.00	14.48
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.044	363.00	15.97
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				234.85
	Add Water Charges @ 1%				2.35
	TOTAL				237.20
	Add CPOH @ 15%				35.58
	Cost of 0.01 cum				272.78
	Cost of 1 cum				27278.00
	Say				27278.00

7.15.2 Both faced punched
7.15.2.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1160	Red sand stone block	10 cu dm	13.330	65.00	86.65
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Extra labour for lifting of materials upto floor five level				
	0.01x1.50=0.015				
0115	Coolie	day	0.015	329.00	4.93
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.118	399.00	47.08
0102	Blacksmith 1 st class	day	0.012	435.00	5.22
0114	Beldar	day	0.088	329.00	28.95
0115	Coolie	day	0.044	329.00	14.48
0100	Bandhani	day	0.088	363.00	31.94
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
	TOTAL				292.02
	Add Water Charges @ 1%				2.92
	TOTAL				294.94
	Add CPOH @ 15%				44.24
	Cost of 0.01 cum				339.18
	Cost of 1 cum				33918.00
	Say				33918.00

7.15 Stone work ashlar punched (ordinary) in superstructure upto floor five level in cement mortar 1:6 (1 white cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.15.2 Both faced punched
7.15.2.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.330	70.00	93.31
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% =3.33 cu dm.				
	Total = 13.33 cu dm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031 t Extra labour for lifting of materials upto floor V level 0.01x1.50 = 0.015	tonne	0.031	94.65	2.93
0115	Coolie Dressing charges LABOUR:	day	0.015	329.00	4.93
0125	Mason (for plain stone work) 2nd class	day	0.118	399.00	47.08
0102	Blacksmith 1 st class	day	0.012	435.00	5.22
0114	Beldar	day	0.088	329.00	28.95
0115	Coolie	day	0.044	329.00	14.48
0100	Bandhani Fixing charges LABOUR:	day	0.088	363.00	31.94
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
	TOTAL				298.68
	Add Water Charges @ 1%				2.99
	TOTAL				301.67
	Add CPOH @ 15%				45.25
	Cost of 0.01 cum				346.92
	Cost of 1 cum				34692.00
	Say				34692.00

7.16 Extra for stone work, Random Rubble/Coursed Rubble masonry/Ashlar Masonry above floor V level for every four floors or part thereof.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cudm or 0.01 cum above floor V level Labour required for lifting of material (above floor five level for each additional four floors) or part thereof Extra labour for lifting of materials above floor V level (0.01 x 2.00 = 0.020)</i>				
0114	Beldar	day	0.020	329.00	6.58
	TOTAL				6.58
	Add Water Charges @ 1%				0.07
	TOTAL				6.65
	Add CPOH @ 15%				1.00
	Cost of 0.01 cum				7.65
	Cost of 1 cum				765.00
	Say				765.00

7.17 Extra for plain ashlar or ashlar punched in :
7.17.1 Square or rectangular pillars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	<i>Details of cost for 10 cudm or 0.01 cum</i> Labour and materials	L.S.	8.970	1.78	15.97
	TOTAL				15.97
	Add Water Charges @ 1%				0.16
	TOTAL				16.13
	Add CPOH @ 15%				2.42
	Cost of 0.01 cum				18.55
	Cost of 1 cum				1855.00
	Say				1855.00

7.18 Extra for stone work; plain ashlar or ashlar punched curved on plan with a mean radius not exceeding 6 m.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	<i>Details of cost for 10 cudm or 0.01 cum</i> Labour and materials	L.S.	6.240	1.78	11.11
	TOTAL				11.11
	Add Water Charges @ 1%				0.11
	TOTAL				11.22
	Add CPOH @ 15%				1.68
	Cost of 0.01 cum				12.90
	Cost of 1 cum				1290.00
	Say				1290.00

7.19 Extra for additional cost of centering for arches exceeding 6 m span including all strutting, bolting, wedging etc. and removal (area of soffit to be measured).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 33.31 sqm</i> Centering and shuttering for arches and carved surface exceeding 6m in span (an average of 8m) Radius R = 5m $2R-2=4+4 \tan^{-1}(4/3)=53.28^\circ$ $2 \times 53.28^\circ = 106^\circ$ Surface area $= 2 \times 22/7 \times 5 \times 3.6 \times 106/360 = 33.31$ sqm. Arc=9.25m MATERIAL: Tie- $2 \times 8 \times 0.18 \times 0.05 = 0.144$ cum Struts- $2 \times 2.5 \times 0.1 \times 0.1 = 0.050$ cum. Struts- $2 \times 1.77 \times 0.1 \times 0.1 = 0.035$ cum. Ribs - $6 \times 1.54 \times 0.23 \times 0.1 = 0.213$ cum. Struts- $2 \times 1.72 \times 0.1 \times 0.1 = 0.034$ cum. Total=0.476 cum. For four such frames = $0.476 \times 4 = 1.904$ cum. Laggings- $75 \times 3.6 \times 0.125 \times 0.075 = 2.531$ cum. Tie- $2 \times 3.6 \times 0.225 \times 0.038 = 0.062$ cum. Brace - $3 \times 2 \times 2.14 \times 0.225 \times 0.038 = 0.110$ Brace- $3 \times 4 \times 3.8 \times 0.225 \times 0.038 = 0.390$ Sleepers- $4 \times 3.6 \times 0.20 \times 0.15 = 0.432$ Sleepers - $2 \times 4 \times 3.6 \times 0.175 \times 0.075 = 0.378$ Vertical post- $4 \times 4 \times 3.6 \times 0.15 \times 0.15 = 1.296$ Total = 7.103 cum. - Qty taken as 1/8th of qty for cost of using once = $7.103/8 = 0.8879$ cum				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1197	Second class kail wood in scantling	10 cudm	887.900	260.00	23085.40
2204	Carriage of timber	cum	0.888	121.70	108.06
	Fittings:3 way straps 50mmx10mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmx10mm = 8 Nos. @0.25cm each= 2m Total = 18m 18m, wt @ 3.9kg/m = 70.2 kg. = 0.702q Qty taken 1/8th of qty for cost using once = 0.702/8 = 0.08775 Qtl				
1225	Mild steel flat strap fitting	quintal	0.088	5000.00	439.00
	Bolts 160 Nos. 254 mm long 16mm dia.- 160x.254x 1.58=64.21 kg=0.64q. Qty taken 1/8th of qty for cost using once = 0.64/8 = 0.08 Qtl				
1034	Bolts and nuts up to 300 mm in length	quintal	0.080	5600.00	448.00
	Carriage of steel = 0.1342t Qty taken 1/8th of qty for cost using once = 0.1342/8 = 0.01677 t				
2302	Carriage of G.I.sheet and accessories	tonne	0.017	94.65	1.59
	LABOUR:				
0112	Carpenter 2nd class	day	28.000	399.00	11172.00
0114	Beldar	day	24.000	329.00	7896.00
9999	Sundries	L.S.	134.550	1.78	239.50
	Less Cost of shuttering etc. for an arch exceeding 6 m span i.e. for an average of 8 m span				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	-33.310	1066.30	-35518.45 A
	TOTAL				7871.10
	Add Water Charges @ 1% except on A i.e on (7,871.10 - -35,518.45 =) 43,389.55				433.90
	TOTAL				8305.00
	Add CPOH @ 15% except on A i.e on (8,305.00 - -35,518.45 =) 43,823.45				6573.52
	Cost of 33.31 sqm				14878.52
	Cost of 1 sqm				446.67
	Say				446.65

7.20 Stone work ashlar sunk or moulded or sunk and moulded upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :

7.20.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cudm or 0.01 cum</i>				
	MATERIAL:				
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
1160	Red sand stone block	10 cudm	13.330	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031 t				
9999	Extra for using white cement Dressing charges	L.S.	8.060	1.78	14.35

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.291	399.00	116.11
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.044	329.00	14.48
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.044	363.00	15.97
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
	Extra labour for lifting of materials upto floor V level $0.01 \times 1.50 = 0.015$				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				335.11
	Add Water Charges @ 1%				3.35
	TOTAL				338.46
	Add CPOH @ 15%				50.77
	Cost of 0.01 cum				389.23
	Cost of 1 cum				38923.00
	Say				38923.00

7.20 Stone work ashlar sunk or moulded or sunk and moulded upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :

7.20.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
1161	White sand stone block	10 cu dm	13.330	70.00	93.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	94.65	2.93
	@ 2.30kg/cu dm = $13.33 \times 2.30 = 30.659$ kg = 0.031 t				
9999	Extra for using white cement	L.S.	8.060	1.78	14.35
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.291	399.00	116.11
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.044	329.00	14.48
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.044	363.00	15.97
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	399.00	17.56

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0102	Blacksmith 1 st class	day	0.006	435.00	2.61
0114	Beldar	day	0.022	329.00	7.24
0115	Coolie	day	0.022	329.00	7.24
0100	Bandhani	day	0.022	363.00	7.99
0101	Bhisti	day	0.022	363.00	7.99
9999	Scaffolding	L.S.	2.730	1.78	4.86
9999	Mortar for laying and pointing	L.S.	8.060	1.78	14.35
	Extra labour for lifting of materials upto floor				
	V level 0.01x1.50 = 0.015				
0115	Coolie	day	0.015	329.00	4.93
	TOTAL				341.77
	Add Water Charges @ 1%				3.42
	TOTAL				345.19
	Add CPOH @ 15%				51.78
	Cost of 0.01 cum				396.97
	Cost of 1 cum				39697.00
	Say				39697.00

7.21 Extra for stone work ashlar sunk or moulded or sunk and moulded or carved in :

7.21.1 Triangular or Square or rectangular pillars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cudm or 0.01 cum</i>				
9999	Labour	L.S.	11.700	1.78	20.83
	TOTAL				20.83
	Add Water Charges @ 1%				0.21
	TOTAL				21.04
	Add CPOH @ 15%				3.16
	Cost of 0.01 cum				24.20
	Cost of 1 cum				2420.00
	Say				2420.00

7.21 Extra for stone work ashlar sunk or moulded or sunk and moulded or carved in :

7.21.2 Circular or polygonal pillars

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cudm or 0.01 cum</i>				
9999	Labour	L.S.	33.150	1.78	59.01
	TOTAL				59.01
	Add Water Charges @ 1%				0.59
	TOTAL				59.60
	Add CPOH @ 15%				8.94
	Cost of 0.01 cum				68.54
	Cost of 1 cum				6854.00
	Say				6854.00

7.22 Extra for stone work ashlar sunk or moulded in cornices.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a cornice 30 cm long 60cm deep and 15cm projection</i>				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.500	399.00	199.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.750	329.00	246.75
	TOTAL				446.25
	Add Water Charges @ 1%				4.46
	TOTAL				450.71
	Add CPOH @ 15%				67.61
	Cost of 30cm long 60cm deep and 15cm girth				518.32
	Cost per metre per cm girth				23.04
	Say				23.05
7.23	Stone work (machine cut edges) for wall lining etc.(veneer work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately) :				
7.23.1	Red sand stone - Exposed face fine dressed with rough backing.				
7.23.1.1	70 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 70 cu dm. +				
	Add wastage @ 33.3% =23.33 cu dm				
	Total = 93.33 cu dm				
1160	Red sand stone block	10 cu dm	93.330	65.00	606.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.215	94.65	20.35
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.350	399.00	538.65
0102	Blacksmith 1 st class	day	0.032	435.00	13.92
0114	Beldar	day	0.224	329.00	73.70
0115	Coolie	day	0.112	329.00	36.85
0100	Bandhani	day	0.224	363.00	81.31
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2228.32
	Add Water Charges @ 1%				22.28
	TOTAL				2250.60
	Add CPOH @ 15%				337.59
	Cost of 1 sqm				2588.19
	Say				2588.20

7.23.1.2 60 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Finished work = 60 cudm				
	Add wastage @ 33.3% = 20 cudm				
	Total = 80 cudm				
1160	Red sand stone block	10 cudm	80.000	65.00	520.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.184	94.65	17.42
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.350	399.00	538.65
0102	Blacksmith 1 st class	day	0.032	435.00	13.92
0114	Beldar	day	0.224	329.00	73.70
0115	Coolie	day	0.112	329.00	36.85
0100	Bandhani	day	0.224	363.00	81.31
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2138.75
	Add Water Charges @ 1%				21.39
	TOTAL				2160.14
	Add CPOH @ 15%				324.02
	Cost of 1 sqm				2484.16
	Say				2484.15

7.23.1.3 50 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 50 cudm				
	Add wastage @ 33.3% =16.7 cudm				
	Total = 66.7 cudm				
1160	Red sand stone block	10 cudm	66.700	65.00	433.55
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.153	94.65	14.48
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.350	399.00	538.65
0102	Blacksmith 1 st class	day	0.032	435.00	13.92
0114	Beldar	day	0.224	329.00	73.70
0115	Coolie	day	0.112	329.00	36.85
0100	Bandhani	day	0.224	363.00	81.31
	Fixing charges				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2049.36
	Add Water Charges @ 1%				20.49
	TOTAL				2069.85
	Add CPOH @ 15%				310.48
	Cost of 1 sqm				2380.33
	Say				2380.35

7.23.1.4 40 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 40 cu dm				
	Add wastage @ 33.3% = 13.33 cu dm				
	Total = 53.33 cu dm				
1160	Red sand stone block	10 cu dm	53.330	65.00	346.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.123	94.65	11.64
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.350	399.00	538.65
0102	Blacksmith 1 st class	day	0.032	435.00	13.92
0114	Beldar	day	0.224	329.00	73.70
0115	Coolie	day	0.112	329.00	36.85
0100	Bandhani	day	0.224	363.00	81.31
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				1959.61
	Add Water Charges @ 1%				19.60
	TOTAL				1979.21
	Add CPOH @ 15%				296.88
	Cost of 1 sqm				2276.09
	Say				2276.10

7.23.1.5 30 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% = 9.99cudm				
	Total = 39.99 cudm				
1160	Red sand stone block	10 cudm	39.990	65.00	259.94
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	94.65	8.71
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.350	399.00	538.65
0102	Blacksmith 1 st class	day	0.032	435.00	13.92
0114	Beldar	day	0.224	329.00	73.70
0115	Coolie	day	0.112	329.00	36.85
0100	Bandhani	day	0.224	363.00	81.31
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				1869.98
	Add Water Charges @ 1%				18.70
	TOTAL				1888.68
	Add CPOH @ 15%				283.30
	Cost of 1 sqm				2171.98
	Say				2172.00

7.23.2 Red sand stone - Exposed face machine cut and table rubbed with rough backing.**7.23.2.1 70 mm thick**

Code No	Description	Unit	Quantity	Rate	Amount
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 70 cudm. +				
	Add wastage @ 33.3% = 23.33 cudm				
	Total = 93.33 cudm				
1160	Red sand stone block	10 cudm	93.330	65.00	606.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	94.65	20.35
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.700	399.00	1077.30
0102	Blacksmith 1 st class	day	0.064	435.00	27.84
0114	Beldar	day	0.448	329.00	147.39
0115	Coolie	day	0.224	329.00	73.70

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0100	Bandhani	day	0.448	363.00	162.62
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2972.74
	Add Water Charges @ 1%				29.73
	TOTAL				3002.47
	Add CPOH @ 15%				450.37
	Cost of 1 sqm				3452.84
	Say				3452.85

7.23.2.2 60 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 60 cudm				
	Add wastage @ 33.3% = 20 cudm				
	20 cudmTotal = 80 cudm				
1160	Red sand stone block	10 cudm	80.000	65.00	520.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.184	94.65	17.42
9999	Extra for using white cement	L.S.	26.910	1.78	47.90
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.700	399.00	1077.30
0102	Blacksmith 1 st class	day	0.064	435.00	27.84
0114	Beldar	day	0.448	329.00	147.39
0115	Coolie	day	0.224	329.00	73.70
0100	Bandhani	day	0.448	363.00	162.62
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2883.17
	Add Water Charges @ 1%				28.83
	TOTAL				2912.00
	Add CPOH @ 15%				436.80
	Cost of 1 sqm				3348.80
	Say				3348.80

7.23.2.3 50 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 50 cudm				
	Add wastage @ 33.3% = 16.7 cudm				
	Total = 66.7 cudm				
1160	Red sand stone block	10 cudm	66.700	65.00	433.55
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.153	94.65	14.48
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.700	399.00	1077.30
0102	Blacksmith 1 st class	day	0.064	435.00	27.84
0114	Beldar	day	0.448	329.00	147.39
0115	Coolie	day	0.224	329.00	73.70
0101	Bhisti	day	0.448	363.00	162.62
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2793.78
	Add Water Charges @ 1%				27.94
	TOTAL				2821.72
	Add CPOH @ 15%				423.26
	Cost of 1 sqm				3244.98
	Say				3245.00

7.23.2.4 40 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 40 cudm				
	Add wastage @ 33.3% = 13.33 cudm				
	Total = 53.33 cudm				
1160	Red sand stone block	10 cudm	53.330	65.00	346.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.123	94.65	11.64
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.700	399.00	1077.30
0102	Blacksmith 1 st class	day	0.064	435.00	27.84
0114	Beldar	day	0.448	329.00	147.39
0115	Coolie	day	0.224	329.00	73.70

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0100	Bandhani	day	0.448	363.00	162.62
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2704.03
	Add Water Charges @ 1%				27.04
	TOTAL				2731.07
	Add CPOH @ 15%				409.66
	Cost of 1 sqm				3140.73
	Say				3140.75

7.23.2.5 30 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% = 9.99cudm				
	Total = 39.99 cudm				
1160	Red sand stone block	10 cudm	39.990	65.00	259.94
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	94.65	8.71
9999	Extra for using white cement	L.S.	26.910	1.78	47.90
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.700	399.00	1077.30
0102	Blacksmith 1 st class	day	0.064	435.00	27.84
0114	Beldar	day	0.448	329.00	147.39
0115	Coolie	day	0.224	329.00	73.70
0100	Bandhani	day	0.448	363.00	162.62
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2614.40
	Add Water Charges @ 1%				26.14
	TOTAL				2640.54
	Add CPOH @ 15%				396.08
	Cost of 1 sqm				3036.62
	Say				3036.60

7.23.3 White sand stone - Exposed face fine dressed with rough backing.**7.23.3.1 70 mm thick**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 70 cu dm. +				
	Add wastage @ 33.3% = 23.33 cu dm				
	Total = 93.33 cu dm				
1161	White sand stone block	10 cu dm	93.330	70.00	653.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.215	94.65	20.35
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.350	399.00	538.65
0102	Blacksmith 1 st class	day	0.032	435.00	13.92
0114	Beldar	day	0.224	329.00	73.70
0115	Coolie	day	0.112	329.00	36.85
0100	Bandhani	day	0.224	363.00	81.31
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2274.99
	Add Water Charges @ 1%				22.75
	TOTAL				2297.74
	Add CPOH @ 15%				344.66
	Cost of 1 sqm				2642.40
	Say				2642.40

7.23.3.2 60 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 60 cu dm				
	Add wastage @ 33.3% = 20 cu dm				
	Total = 80 cu dm				
1161	White sand stone block	10 cu dm	80.000	70.00	560.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.184	94.65	17.42
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.350	399.00	538.65
0102	Blacksmith 1 st class	day	0.032	435.00	13.92
0114	Beldar	day	0.224	329.00	73.70
0115	Coolie	day	0.112	329.00	36.85

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0100	Bandhani	day	0.224	363.00	81.31
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2178.75
	Add Water Charges @ 1%				21.79
	TOTAL				2200.54
	Add CPOH @ 15%				330.08
	Cost of 1 sqm				2530.62
	Say				2530.60

7.23.3.3 50 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 50 cu dm				
	Add wastage @ 33.3% =16.7 cu dm				
	Total = 66.7 cu dm				
1161	White sand stone block	10 cu dm	66.700	70.00	466.90
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.153	94.65	14.48
9999	Extra for using white cement	L.S.	26.910	1.78	47.90
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.350	399.00	538.65
0102	Blacksmith 1 st class	day	0.032	435.00	13.92
0114	Beldar	day	0.224	329.00	73.70
0115	Coolie	day	0.112	329.00	36.85
0100	Bandhani	day	0.224	363.00	81.31
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2082.71
	Add Water Charges @ 1%				20.83
	TOTAL				2103.54
	Add CPOH @ 15%				315.53
	Cost of 1 sqm				2419.07
	Say				2419.05

7.23.3.4 40 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 40 cu dm				
	Add wastage @ 33.3% =13.33 cu dm				
	Total = 53.33 cu dm				
1161	White sand stone block	10 cu dm	53.300	70.00	373.10
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.123	94.65	11.64
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.350	399.00	538.65
0102	Blacksmith 1 st class	day	0.032	435.00	13.92
0114	Beldar	day	0.224	329.00	73.70
0115	Coolie	day	0.112	329.00	36.85
0100	Bandhani	day	0.224	363.00	81.31
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				1986.07
	Add Water Charges @ 1%				19.86
	TOTAL				2005.93
	Add CPOH @ 15%				300.89
	Cost of 1 sqm				2306.82
	Say				2306.80

7.23.3.5 30 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 30 cu dm				
	Add wastage @ 33.3% = 9.99cu dm				
	Total = 39.99 cu dm				
1161	White sand stone block	10 cu dm	39.990	70.00	279.93
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.092	94.65	8.71
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.350	399.00	538.65
0102	Blacksmith 1 st class	day	0.032	435.00	13.92
0114	Beldar	day	0.224	329.00	73.70
0115	Coolie	day	0.112	329.00	36.85
0100	Bandhani	day	0.224	363.00	81.31
	Fixing charges				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				1889.97
	Add Water Charges @ 1%				18.90
	TOTAL				1908.87
	Add CPOH @ 15%				286.33
	Cost of 1 sqm				2195.20
	Say				2195.20

7.23.4 White sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.4.1 70 mm thick

Details of cost for 1 sqm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
	Finished work = 70 cu dm. +				
	Add wastage @ 33.3% = 23.33 cu dm				
	Total = 93.33 cu dm				
1161	White sand stone block	10 cu dm	93.330	70.00	653.31
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.215	94.65	20.35
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.700	399.00	1077.30
0102	Blacksmith 1 st class	day	0.064	435.00	27.84
0114	Beldar	day	0.448	329.00	147.39
0115	Coolie	day	0.224	329.00	73.70
0100	Bandhani	day	0.448	363.00	162.62
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				3019.41
	Add Water Charges @ 1%				30.19
	TOTAL				3049.60
	Add CPOH @ 15%				457.44
	Cost of 1 sqm				3507.04
	Say				3507.05

7.23.4.2 60 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm				
	MATERIAL:				
	Finished work = 60 cu dm				
	Add wastage @ 33.3% = 20 cu dm				
	Total = 80 cu dm				
1161	White sand stone block	10 cu dm	80.000	70.00	560.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.184	94.65	17.42
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.700	399.00	1077.30
0102	Blacksmith 1 st class	day	0.064	435.00	27.84
0114	Beldar	day	0.448	329.00	147.39
0115	Coolie	day	0.224	329.00	73.70
0100	Bandhani	day	0.448	363.00	162.62
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2923.17
	Add Water Charges @ 1%				29.23
	TOTAL				2952.40
	Add CPOH @ 15%				442.86
	Cost of 1 sqm				3395.26
	Say				3395.25

7.23.4.3 50 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm				
	MATERIAL:				
	Finished work = 50 cu dm				
	Add wastage @ 33.3% = 16.7 cu dm				
	Total = 66.7 cu dm				
1161	White sand stone block	10 cu dm	66.700	70.00	466.90
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.153	94.65	14.48
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.700	399.00	1077.30
0102	Blacksmith 1 st class	day	0.064	435.00	27.84
0114	Beldar	day	0.448	329.00	147.39
0115	Coolie	day	0.224	329.00	73.70
0100	Bandhani	day	0.448	363.00	162.62

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2827.13
	Add Water Charges @ 1%				28.27
	TOTAL				2855.40
	Add CPOH @ 15%				428.31
	Cost of 1 sqm				3283.71
	Say				3283.70

7.23.4.4 40 mm thick.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 sqm				
	MATERIAL:				
	Finished work = 40 cu dm				
	Add wastage @ 33.3% =13.33 cu dm				
	Total = 53.33 cu dm				
1161	White sand stone block	10 cu dm	53.300	70.00	373.10
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.123	94.65	11.64
9999	Extra for using white cement	L.S.	26.910	1.78	47.90
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.700	399.00	1077.30
0102	Blacksmith 1 st class	day	0.064	435.00	27.84
0114	Beldar	day	0.448	329.00	147.39
0115	Coolie	day	0.224	329.00	73.70
0100	Bandhani	day	0.448	363.00	162.62
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2730.49
	Add Water Charges @ 1%				27.30
	TOTAL				2757.79
	Add CPOH @ 15%				413.67
	Cost of 1 sqm				3171.46
	Say				3171.45

7.23.4.5 30 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% =9.99cudm				
	Total = 39.99 cudm				
1161	White sand stone block	10 cudm	39.990	70.00	279.93
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	94.65	8.71
9999	Extra for using white cement Dressing charges	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.700	399.00	1077.30
0102	Blacksmith 1 st class	day	0.064	435.00	27.84
0114	Beldar	day	0.448	329.00	147.39
0115	Coolie	day	0.224	329.00	73.70
0100	Bandhani	day	0.448	363.00	162.62
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	399.00	178.75
0100	Bandhani	day	0.336	363.00	121.97
0114	Beldar	day	0.336	329.00	110.54
0115	Coolie	day	0.336	329.00	110.54
0101	Bhisti	day	0.336	363.00	121.97
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.000	10.00	40.00
9999	Scaffolding	L.S.	19.760	1.78	35.17
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	5003.35	90.06
	TOTAL				2634.39
	Add Water Charges @ 1%				26.34
	TOTAL				2660.73
	Add CPOH @ 15%				399.11
	Cost of 1 sqm				3059.84
	Say				3059.85

7.24 Extra for stone work (veneer work) curved on plan with a mean radius not exceeding 6 m.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cudm</i>				
9999	Labour and materials	L.S.	8.970	1.78	15.97
	TOTAL				15.97
	Add Water Charges @ 1%				0.16
	TOTAL				16.13
	Add CPOH @ 15%				2.42
	Cost of 0.01 cum				18.55
	Cost of 1 cum				1855.00
	Say				1855.00

7.25 Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases in stone and holes in walls wherever required.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one cramp of 0.934kg</i>				
	MATERIAL:				
	Stainless steel cramp				
	$10 \times 0.064 \times 0.025 \times 0.006 = 9.6 \times 10^{-5}$				
	$10 \times 0.025 \times 0.025 \times 0.006 = 3.7 \times 10^{-5}$				
	$= 13.3 \times 10^{-5}$				
	Less hole				
	$10 \times 0.024 \times 0.010 \times 0.006 = 1.4 \times 10^{-5}$				
	$11.9 \times 10^{-5} \times 7850 = 0.934 \text{ kg}$				
	Add wastage @ 5% = 0.047 kg				
	Total = 0.981 kg				
7339	Stainless steel cramp	kilogram	0.981	340.00	333.54
9999	Carriage	L.S.	3.900	1.78	6.94
	Cement mortar 1:2(1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5933.65	5.93
9999	Labour for fixing in position	L.S.	65.000	1.78	115.70
	TOTAL				462.11
	Add Water Charges @ 1%				4.62
	TOTAL				466.73
	Add CPOH @ 15%				70.01
	Cost of 0.934 kilogram				536.74
	Cost of 1 kilogram				574.67
	Say				574.65

7.26 Providing and fixing stone dowels 10x5x2.50 cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one dowel</i>				
9999	Cost of stone including carriage	L.S.	9.100	1.78	16.20
9999	Labour for dressing dowel cutting chase and fixing etc.	L.S.	5.330	1.78	9.49
	Cement mortar 1:2(1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5933.65	5.93
	TOTAL				31.62
	Add Water Charges @ 1%				0.32
	TOTAL				31.94
	Add CPOH @ 15%				4.79
	Cost of each				36.73
	Say				36.75

7.27 Providing and fixing copper pins 7.5 cm long 6mm diameter for securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one copper pin</i>				
	MATERIAL:				
0873	Copper pins 6 mm dia 7.5 cm long	each	1.000	11.00	11.00
9999	Labour for making pin to required shape and size, cutting chases in stone and fixing in position	L.S.	3.900	1.78	6.94
	Cement mortar 1:2(1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5933.65	5.93
9999	Sundries including hire charges of hand cut machine etc	L.S.	1.950	1.78	3.47
	TOTAL				27.34
	Add Water Charges @ 1%				0.27
	TOTAL				27.61
	Add CPOH @ 15%				4.14
	Cost of each				31.75
	Say				31.75

7.28 Providing and fixing sloping chajja of stone 40 mm thick and upto 80 cm wide beyond the wall as measured along the slope in cement mortar 1:4 (1 cement : 4 coarse sand) with 12 mm diameter anchoring steel bar, 45 cm long, fixed in each stone and supported on and including with brick cove in cement mortar 1:4 (1 cement : 4 coarse sand) including pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade:

7.28.1 Red sand stone:

7.28.1.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a chajja of 2.00 sqm (finished work)</i>				
	MATERIAL:				
	Chisel dressed 80cm sloping length plus 20cm bearing Area = 2.5x1.00=2.50sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	2.750	180.00	495.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.253	94.65	23.95
	LABOUR:				
	Labour for dressing:				
0125	Mason (for plain stone work) 2nd class	day	0.500	399.00	199.50
	Anchoring steel bars 12mm dia. 45cm long 5 Nos. @ 0.80kg/m = 0.02q				
1002	Mild steel round bar 12 mm dia and below	quintal	0.020	4500.00	90.00
9999	Cutting threads and cost of nuts, washers, etc.	L.S.	67.340	1.78	119.87
	Mortar for pointing 1:2(1 Cement: 2 Stone dust)				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.009	5838.65	52.55
9999	Pigment	L.S.	6.240	1.78	11.11
9999	Extra for using white cement	L.S.	26.910	1.78	47.90

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.000	399.00	399.00
0114	Beldar	day	1.500	329.00	493.50
9999	Scaffolding and sundries etc.	L.S.	16.120	1.78	28.69
	Brick cover support 4 courses with bricks of class designation 754x7+5+5=38cm girth 2.5m length=38cmx2.5m=95cm				
9999	Cost of Brick cover support.	L.S.	104.000	1.78	185.12
	Brick work in triangular gap above cover with bricks of class designation 7.5 in cement mortar 1:4-1/2x2.5x0.2x0.07=0.018cum				
6.4.1	Rate as per Item Number 6.4.1 of SH: Brick work	cum	0.018	5667.55	102.02 A
	TOTAL				2248.21
	Add Water Charges @ 1% except on A i.e on (2,248.21 - 102.02 =) 2,146.19				21.46
	TOTAL				2269.67
	Add CPOH @ 15% except on A i.e on (2,269.67 - 102.02 =) 2,167.65				325.15
	Cost of 2 sqm				2594.82
	Cost of 1 sqm				1297.41
	Say				1297.40

7.28 Providing and fixing sloping chajja of stone 40 mm thick and upto 80 cm wide beyond the wall as measured along the slope in cement mortar 1:4 (1 cement : 4 coarse sand) with 12 mm diameter anchoring steel bar, 45 cm long, fixed in each stone and supported on and including with brick cove in cement mortar 1:4 (1 cement : 4 coarse sand) including pointing in cement mortar 1:2 (1 white cement: 2 stone dust) with an admixture of pigment matching the stone shade:

7.28.2 White sand stone:

7.28.2.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a chajja of 2.00 sqm (finished work)</i>				
	MATERIAL:				
	Chisel dressed 80cm sloping length plus 20cm bearing Area = 2.5x1.00=2.50sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	2.750	200.00	550.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.253	94.65	23.95
	LABOUR:				
	Labour for dressing				
0125	Mason (for plain stone work) 2nd class	day	0.500	399.00	199.50
	Labour for dressing				
	Anchoring steel bars 12mm dia. 45cm long 5 Nos. @ 0.80kg/m = 0.02q				
1002	Mild steel round bar 12 mm dia and below	quintal	0.020	4500.00	90.00
9999	Cutting threads and cost of nuts, washers, etc.	L.S.	67.340	1.78	119.87
	Mortar for pointing 1:2 (1 Cement: 2 Stone dust)				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.009	5838.65	52.55
9999	Pigment	L.S.	6.240	1.78	11.11
9999	Extra cost of white cement	L.S.	26.910	1.78	47.90

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.000	399.00	399.00
0114	Beldar	day	1.500	329.00	493.50
9999	Scaffolding and sundries etc.	L.S.	16.120	1.78	28.69
	Brick cover support 4 courses with bricks of class designation 754x7+5+5=38cm girth 2.5m length=38cmx2.5m=95cm				
9999	Cost of Brick cover support.	L.S.	104.000	1.78	185.12
	Brick work in triangular gap above cover with bricks of class designation 5 in cement mortar 1:4½x2.5x0.2x0.07=0.018cum				
6.4.1	Rate as per Item Number 6.4.1 of SH: Brick work	cum	0.018	5667.55	102.02A
	TOTAL				2303.21
	Add Water Charges @ 1% except on A i.e on (2,303.21 - 102.02 =) 2,201.19				22.01
	TOTAL				2325.22
	Add CPOH @ 15% except on A i.e on (2,325.22 - 102.02 =) 2,223.20				333.48
	Cost of 2 sqm				2658.70
	Cost of 1 sqm				1329.35
	Say				1329.35
7.29	Providing and fixing horizontal chajja of stone 40 mm thick and upto 80 cm projection in cement mortar 1:4 (1 cement : 4 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade:				
7.29.1	Red sand stone				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for (2.5x0.75m) 1.875 sqm				
	MATERIAL:				
	Taking 2.5mx75cm projection + 15cm bearing = 2.5x0.9 = 2.25 sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	2.250	180.00	405.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.227	94.65	21.49
	LABOUR:				
	Labour for dressing				
0125	Mason (for plain stone work) 2nd class	day	0.450	399.00	179.55
9999	Mortar for pointing 1:2	L.S.	53.820	1.78	95.80
9999	Pigment	L.S.	6.240	1.78	11.11
9999	Extra cost of white cement	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.600	399.00	239.40
0114	Beldar	day	0.800	329.00	263.20
9999	Scaffolding and sundries etc.	L.S.	13.520	1.78	24.07
	TOTAL				1287.52
	Add Water Charges @ 1%				12.88
	TOTAL				1300.40
	Add CPOH @ 15%				195.06
	Cost of 1.875 sqm				1495.46
	Cost of 1 sqm				797.58
	Say				797.60

7.29.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for (2.5x0.75m) 1.875 sqm</i>				
	MATERIAL:				
	Taking 2.5mx75cm projection + 15cm bearing = 2.5x 0.9 = 2.25 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	2.250	200.00	450.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.227	94.65	21.49
	LABOUR:				
	Labour for dressing				
0125	Mason (for plain stone work) 2nd class	day	0.450	399.00	179.55
9999	Mortar for pointing 1:2	L.S.	53.820	1.78	95.80
9999	Pigment	L.S.	6.240	1.78	11.11
9999	Extra cost of white cement	L.S.	26.910	1.78	47.90
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.600	399.00	239.40
0114	Beldar	day	0.800	329.00	263.20
9999	Scaffolding and sundries etc.	L.S.	13.520	1.78	24.07
	TOTAL				1332.52
	Add Water Charges @ 1%				13.33
	TOTAL				1345.85
	Add CPOH @ 15%				201.88
	Cost of 1.875 sqm				1547.73
	Cost of 1 sqm				825.46
	Say				825.45

7.30 30 mm red sand stone sun-shade (chisel-dressed) supported on red sand stone brackets, fixed in walls with cement mortar 1:4 (1 cement : 4 coarse sand), including finishing complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for window 1.6m length and 0.70m width = 1.12 sqm</i>				
	MATERIAL:				
	overall width 0.70+0.15=0.85 metres				
	Total area = 1.6 x 0.85=1.36sqm.				
	Red stone brackets (chisel dressed) 30mm				
	average thickness over all width of brackets				
	0.53+0.23=0.76m				
	2x0.3x0.76=0.46				
	Total 1.36+0.46 =1.82sqm.				
	Add wastage @10% = 0.18sqm.				
	Total = 2.00 sqm				
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	2.000	200.00	400.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.140	94.65	13.25
9999	Cement mortar 1:4	L.S.	13.520	1.78	24.07
	LABOUR:				
	Labour for dressing and fixing				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0125	Mason (for plain stone work) 2nd class	day	0.860	399.00	343.14
0114	Beldar	day	0.500	329.00	164.50
	TOTAL				944.96
	Add Water Charges @ 1%				9.45
	TOTAL				954.41
	Add CPOH @ 15%				143.16
	Cost of 1.12 sqm				1097.57
	Cost of 1 sqm				979.97
	Say				979.95

7.31 Providing and fixing red sand stone brackets 55x22.5x45 cm sunk and moulded including providing and fixing with 4 Nos gun metal cramp 25x6 mm 30 cm long and dowel bars 7.5 cm long 6mm dia as per design.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 bracket</i>				
	Quantity of stone for 1 bracket				
	1 x 55 x 22.5 x 45cm = 0.056cum or 56 cudm.				
	Red sand stone = 56 cudm.				
	Add wastage 10% = 5.6 cudm.				
	Total =61.6 cudm				
1160	Red sand stone block	10 cudm	61.600	65.00	400.40
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/ cudm	tonne	0.140	94.65	13.25
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.793	399.00	715.25
0102	Blacksmith 1 st class	day	0.037	435.00	16.10
0114	Beldar	day	0.271	329.00	89.16
0115	Coolie	day	0.136	329.00	44.58
0100	Bandhani	day	0.271	363.00	98.37
0373	Cramp Gun metal 25x6x300 mm	each	4.000	80.00	320.00
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.246	399.00	98.31
0102	Blacksmith 1 st class	day	0.034	435.00	14.62
0114	Beldar	day	0.123	329.00	40.53
0115	Coolie	day	0.123	329.00	40.53
0100	Bandhani	day	0.123	363.00	44.72
0101	Bhisti	day	0.123	363.00	44.72
9999	Scaffolding	L.S.	15.290	1.78	27.22
9999	Mortar for laying and pointing	L.S.	45.140	1.78	80.35
	Extra labour for ornamental finish				
0126	Mason (for ornamental stone work) 1 st class	day	0.950	435.00	413.25
	TOTAL				2501.36
	Add Water Charges @ 1%				25.01
	TOTAL				2526.37
	Add CPOH @ 15%				378.96
	Cost of each				2905.33
	Say				2905.35

7.32 Stone work, plain in copings, cornices, string courses and plinth courses, upto 75 mm thick in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.32.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for cornices (30cm long 30cm deep and 7.5cm project-iron) = 6.75cudm or 0.00675 cum</i>				
	MATERIAL:				
	Stone work plain ashlar cyclopean 3x3x0.75 - 6.75cudm				
7.12.1.1	Rate as per Item Number 7.12.1.1 of SH: Stone work	cum	0.007	27848.00	187.97 A
9999	Extra for using white cement	L.S.	5.330	1.78	9.49
	Extra labour for making the cornices				
0125	Mason (for plain stone work) 2nd class	day	0.070	399.00	27.93
0114	Beldar	day	0.070	329.00	23.03
	TOTAL				248.42
	Add Water Charges @ 1% except on A i.e on (248.42 - 187.97 =) 60.45				0.60
	TOTAL				249.02
	Add CPOH @ 15% except on A i.e on (249.02 - 187.97 =) 61.05				9.16
	Cost of 0.00675 cum				258.18
	Cost of 1 cum				38248.89
	Say				38249.00

7.32.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for cornices (30cm long 30cm deep and 7.5cm project-iron) = 6.75cudm or 0.00675 cum</i>				
	MATERIAL:				
	Stone work plain ashlar cyclopean 3x3x0.75 = 6.75 cudm				
7.12.1.2	Rate as per Item Number 7.12.1.2 of SH: Stone work	cum	0.007	28621.00	193.19 A
9999	Extra for using white cement	L.S.	5.330	1.78	9.49
	LABOUR:				
	Extra labour for making the cornices				
0125	Mason (for plain stone work) 2nd class	day	0.070	399.00	27.93
0114	Beldar	day	0.070	329.00	23.03
	TOTAL				253.64
	Add Water Charges @ 1% except on A i.e on (253.64 - 193.19 =) 60.45				0.60
	TOTAL				254.24
	Add CPOH @ 15% except on A i.e on (254.24 - 193.19 =) 61.05				9.16
	Cost of 0.00675 cum				263.40
	Cost of 1 cum				39022.22
	Say				39022.00

7.33 Providing and fixing stone jali 40 mm thick throughout in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade, jali slab without any chamfers etc.

7.33.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Red sand stone slab 40mm=1.00 sqm				
	Add 10% wastage				
	Total =0.10/1.10				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	1.100	180.00	198.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.101	94.65	9.56
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	12.700	399.00	5067.30
0114	Beldar	day	8.450	329.00	2780.05
9999	Mortar and sundries.	L.S.	80.730	1.78	143.70
	TOTAL				8198.61
	Add Water Charges @ 1%				81.99
	TOTAL				8280.60
	Add CPOH @ 15%				1242.09
	Cost of 1 sqm				9522.69
	Say				9522.70

7.33.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	White sandstone slabx40mm = 1.00 sqm				
	Add 10% wastage				
	Total =0.10/1.10 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	1.100	200.00	220.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.101	94.65	9.56
	LABOUR:				
	For making, dressing and fixing				
0125	Mason (for plain stone work) 2nd class	day	12.700	399.00	5067.30
0114	Beldar	day	8.450	329.00	2780.05
9999	Mortar and sundries.	L.S.	80.730	1.78	143.70
	TOTAL				8220.61
	Add Water Charges @ 1%				82.21
	TOTAL				8302.82
	Add CPOH @ 15%				1245.42
	Cost of 1 sqm				9548.24
	Say				9548.25

- 7.34** Extra for laying stone work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete. Note:- The quantity will be calculated by multiplying the depth measure from sub-soil water level upto the centre of gravity of stone work under sub-soil water with the quantity of stone work in cum executed under the sub-soil water. The depth of centre of gravity shall be reconed correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for depth of water 0.30m.</i>				
	<i>Quantity of concrete = 14 cum</i>				
	<i>pumping hours = 3 hrs. on 0.375day</i>				
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	600.00	225.00
0114	Beldar for cleaning slush	day	4.000	329.00	1316.00
	TOTAL				1541.00
	Add Water Charges @ 1%				15.41
	TOTAL				1556.41
	Add CPOH @ 15%				233.46
	Cost of 4.2 cum / mtr depth				1789.87
	cum/mtr depth				426.16
	Say				426.15

- 7.35** Extra for laying stone work in or under foul position.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	<i>Extra labour due to slow progress</i>				
0123	Mason (brick layer) 1 st class	day	0.020	435.00	8.70
0124	Mason (brick layer) 2nd class	day	0.020	399.00	7.98
0114	Beldar	day	0.250	329.00	82.25
0115	Coolie	day	0.150	329.00	49.35
	TOTAL				148.28
	Add Water Charges @ 1%				1.48
	TOTAL				149.76
	Add CPOH @ 15%				22.46
	Cost of 1 cum				172.22
	Say				172.20

- 7.36** Wall lining butch work upto 10 m height with Dholpur stone 40 mm thick rough facing on the exposed surface with stone strips of minimum length 300 mm and required width, including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) i/c ruled pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Engineer-in-charge.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	<i>Dholpur stone 40mm thick Wall face = 1.00sqm.</i>				
	<i>Deduct for embed within 3x0.04x0.10=0.12 sqm</i>				
	<i>= 0.88sqm.</i>				
	<i>Add wastage 5% = 0.04sqm.</i>				
	<i>Total= 0.92 sqm</i>				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1165	White sand stone slab 40 mm thick (un-dressed) 75mm thick 3x0.04x1.0 = 0.12 sqm. Add wastage 5% = 0.01 sqm. Total = 0.13 sqm	sqm	0.920	200.00	184.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	0.130	350.00	45.50
2216	Carriage of stone blocks white & red sand stone & kota stone slab 0.92x0.04 = 0.0368 cum. 0.13x0.075 = 0.0100 cum.= 0.0468 cum. or 468 cudm. 468 cudm @ 2.3 kg/cudm = 108 kg = 0.108 tonne	tonne	0.108	94.65	10.22
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device assuming 50mm thick strips 20x1.0 = 20 metre Cement mortar with coarse sand 1:3 for(a) stone backing 12mm thick = 0.0144 cum. (b) for fixing of stone = 0.40/25 - 0.0160 cum. Total = 0.0304 cum	metre	20.000	10.00	200.00
3.8	Rate as per Item Number 3.8 of SH: Mortars Cutting chases and making good with mortar after insurting stone etc.	cum	0.030	5003.35	152.10
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	3.000	85.70	257.10 A
9999	White cement and pigment for pointing LABOUR:	L.S.	40.430	1.78	71.97
0126	Mason (for ornamental stone work) 1 st class	day	0.250	435.00	108.75
0125	Mason (for plain stone work) 2nd class	day	0.250	399.00	99.75
0114	Beldar	day	0.500	329.00	164.50
0101	Bhisti	day	0.030	363.00	10.89
9999	Sundries and scaffolding brushes etc.	L.S.	26.910	1.78	47.90
	TOTAL				1352.68
	Add Water Charges @ 1% except on A i.e on (1,352.68 - 257.10 =) 1,095.58				10.96
	TOTAL				1363.64
	Add CPOH @ 15% except on A i.e on (1,363.64 - 257.10 =) 1,106.54				165.98
	Cost of 1 sqm				1529.62
	Say				1529.60

7.37 Stone work (machine cut edges veneer work) for wall lining upto 10 m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1:2 (1 cement : 2 stone dust), including rubbing and polishing complete. (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately)

7.37.1 Kota stone slabs exposed face dressed and rubbed.

7.37.1.1 25 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	25mm thids. kota stoneslabs = 10 sqm.				
	Add 15% wistage = 1.50 sqm				
	Total 11.50 sqm				
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	11.500	290.00	3335.00
	Cement Mortar 1 : 3				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.670	94.65	63.42
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	5003.35	720.48
9999	Cement mortar for pointing	L.S.	40.430	1.78	71.97

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	6.500	399.00	2593.50
0114	Beldar	day	6.500	329.00	2138.50
0115	Coolie	day	4.300	329.00	1414.70
0139	Skilled Beldar (for floor rubbing etc.)	day	10.800	363.00	3920.40
9999	Sundries	L.S.	111.540	1.78	198.54
	TOTAL				14456.51
	Add Water Charges @ 1%				144.57
	TOTAL				14601.08
	Add CPOH @ 15%				2190.16
	Cost of 10 sqm				16791.24
	Cost of 1 sqm				1679.12
	Say				1679.10
7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.				
7.38.1	8 mm thick (mirror polished and machine cut edge)				
7.38.1.1	Granite stone of any colour and shade				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Granite stone tile = 10.00 sqm.				
	Add 2.5% wastage =0.25 sqm				
	Total =10.25 sqm				
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	10.250	700.00	7175.00
9999	Carriage of granite tiles	L.S.	40.040	1.78	71.27
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.140	5003.35	700.47
0367	Portland Cement	tonne	0.033	6300.00	207.90
	slurry @ 3.3 kg/sqm				
9999	Mortar for pointing in white cement	L.S.	25.740	1.78	45.82
	LABOUR:				
	Labour for placing and fixing				
0123	Mason (brick layer) 1 st class	day	7.700	435.00	3349.50
0114	Beldar	day	7.700	329.00	2533.30
9999	Granular sand particles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	L.S.	260.000	1.78	462.80
9999	Sundries	L.S.	171.600	1.78	305.45
	TOTAL				14851.51
	Add Water Charges @ 1%				148.52
	TOTAL				15000.03
	Add CPOH @ 15%				2250.00
	Cost of 10 sqm				17250.03
	Cost of 1 sqm				1725.00
	Say				1725.00

7.38 Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.

7.38.1 8 mm thick (mirror polished and machine cut edge)

7.38.1.2 Raj Nagar plain white marble / Udaipur green marble / Zebra black marble

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	8mm thick Raj Nagar white stone tile = 10.00sqm				
	Add 2.5% wastage = 0.25 sqm				
	Total = 10.25sqm				
7439	8mm thick (mirror polished tiles machine cut edge)				
	Raj Nagar white	sqm	10.250	500.00	5125.00
9999	Carriage of Raj Nagar white stone tiles	L.S.	40.040	1.78	71.27
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.140	5003.35	700.47
0367	Portland Cement	tonne	0.033	6300.00	207.90
	slurry @ 3.3 kg/sqm				
9999	Mortar for pointing in white cement	L.S.	25.740	1.78	45.82
	Labour for placing and fixing :				
0123	Mason (brick layer) 1 st class	day	7.700	435.00	3349.50
0114	Beldar	day	7.700	329.00	2533.30
9999	Granular sand particles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	L.S.	260.000	1.78	462.80
9999	Sundries	L.S.	171.600	1.78	305.45
	TOTAL				12801.51
	Add Water Charges @ 1%				128.02
	TOTAL				12929.53
	Add CPOH @ 15%				1939.43
	Cost of 10 sqm				14868.96
	Cost of 1 sqm				1486.90
	Say				1486.90

7.39 Extra for stone work for wall lining on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Analysis same as Item Number 13.74				
	MATERIAL:				
9999	Scaffolding	L.S.	215.280	1.78	383.20
0123	Mason (brick layer) 1 st class	day	0.300	435.00	130.50
0114	Beldar	day	0.300	329.00	98.70
0101	Bhisti	day	0.150	363.00	54.45
9999	Sundries	L.S.	28.600	1.78	50.91
	TOTAL				717.76
	Add Water Charges @ 1%				7.18
	TOTAL				724.94
	Add CPOH @ 15%				108.74
	Cost of 10 sqm				833.68
	Cost of 1 sqm				83.37
	Say				83.35

7.40 Providing and fixing dry cladding upto 10 metre heights with 30 mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and / or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-Charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately.)

7.40.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3 sqm</i>				
	MATERIAL:				
	Red sand stone = 3 x 1.00 sqm = 3.00 sqm				
	Add wastage 25% = 0.75 sqm				
	Total=3.75 sqm				
	Add 20% wastage infixing due to broken edge = 0.60 sqm				
	Total = 4.35 sqm				
8683	Red sand stone gang saw cut 30 mm thick	sqm	4.350	460.00	2001.00
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	10.000	10.00	100.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	94.65	20.35
9999	Backing rod	L.S.	30.680	1.78	54.61
9999	Fixing including weather sealant and removing	L.S.	153.400	1.78	273.05
9999	Double scaffolding	L.S.	204.750	1.78	364.46
0126	Mason (for ornamental stone work) 1 st class	day	2.000	435.00	870.00
0114	Beldar	day	4.000	329.00	1316.00
	Labour for lifting stone				
0114	Beldar	day	1.000	329.00	329.00
9999	Silicon gun / pump etc.	L.S.	204.750	1.78	364.46
	Labour for sealing				
0116	Fitter (grade 1)	day	0.250	435.00	108.75
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries	L.S.	204.750	1.78	364.46
9999	Rubbing and polishing vertical surface of stone cladding	L.S.	51.220	1.78	91.17
	TOTAL				6421.81
	Add Water Charges @ 1%				64.22
	TOTAL				6486.03
	Add CPOH @ 15%				972.90
	Cost of 3 sqm				7458.93
	Cost of 1 sqm				2486.31
	Say				2486.30

7.40.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3 sqm</i>				
	MATERIAL:				
	White sand stone = 3.00sqm				
	Add wastage 25% =0.75 sqm =3.75 sqm.				
	Add 20% wastage infixing due to broken edge = 0.60 sqm				
	Total = 4.35 sqm				
8684	White sand stone gang saw cut 30 mm thick	sqm	4.350	480.00	2088.00
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	10.000	10.00	100.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	94.65	20.35
9999	Backing rod	L.S.	30.680	1.78	54.61
9999	Fixing including weather sealant and removig	L.S.	153.400	1.78	273.05
9999	Double scaffolding	L.S.	204.750	1.78	364.46
0126	Mason (for ornamental stone work) 1 st class	day	2.000	435.00	870.00
0114	Beldar	day	4.000	329.00	1316.00
	Labour for lifting stone				
0114	Beldar	day	1.000	329.00	329.00
9999	Silicon gun / pump etc.	L.S.	204.750	1.78	364.46
	Labour for sealing				
0116	Fitter (grade 1)	day	0.250	435.00	108.75
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries	L.S.	204.750	1.78	364.46
9999	Rubbing and polishing vertical surface of stone cladding	L.S.	51.220	1.78	91.17
	TOTAL				6508.81
	Add Water Charges @ 1%				65.09
	TOTAL				6573.90
	Add CPOH @ 15%				986.08
	Cost of 3 sqm				7559.98
	Cost of 1 sqm				2519.99
	Say				2520.00

- 7.41 Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square / rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of MS brackets / lugs of angle iron / flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 300x230x300 mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps / pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-Charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-in-Charge for approval before execution). The frame work**

shall be fixed in true horizontal & vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel cramps shall be paid for separately and nothing extra shall be paid.)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100.78 kg</i>				
	M.S. tube 50x25x18mm vertical=4x3.0=12.00m. Vertical=3x4x0.93=11.16mTotal= 23.16m.Add 10% wastage = 2.32Total 25.48 mts@2.02 kg/m=51.47 kg				
4009	Mild steel tubes hot finished welded type Angle iron 50x50x6mm16x0.60=9.6016x0.15=2.40 Total= 12.00 Add 10% wastage = 1.20m Total= 13.20m @4.50kg/m=59.4 kg or 0.594 q	kilogram	51.470	55.00	2830.85
1007	Structural steel such as tees, angles channels and R.S. joists Cement concrete 1:2:4= 16x0.30x0.23x0.30=0.331 cum	quintal	0.594	4636.00	2753.78
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work Making holes in brick work=16Nos LABOUR:	cum	0.331	5466.30	1809.35 A
0123	Mason (brick layer) 1 st class	day	0.260	435.00	113.10
0124	Mason (brick layer) 2nd class	day	0.260	399.00	103.74
0114	Beldar	day	2.000	329.00	658.00
	Welding for frame welding 16x(2.5+5+2.5+5) = 240 cm For hold fast 16x20cm = 320cmTotal =560cm				
1215	Welding by electric plant LABOUR:	cm	560.000	2.00	1120.00
0102	Blacksmith 1 st class	day	1.340	435.00	582.90
0100	Bandhani	day	0.670	363.00	243.21
0114	Beldar	day	4.920	329.00	1618.68
9999	Sundries	L.S.	80.730	1.78	143.70
	Painting with epoxy paint over and including priming coat area 22.80x0.15 = 3.4212x0.2=2.40 Total = 5.82sqm				
13.52.1	Rate as per Item Number 13.52.1 of SH: Finishing	sqm	5.820	116.55	678.32 A
9999	For labour scaffolding etc.	L.S.	80.730	1.78	143.70
	TOTAL				12799.33
	Add Water Charges @ 1% except on A i.e on (12,799.33 - 2,487.67 =) 10,311.66				103.12
	TOTAL				12902.45
	Add CPOH @ 15% except on A i.e on (12,902.45 - 2,487.67 =) 10,414.78				1562.22
	Cost of 100.78 kilogram				14464.67
	Cost of 1 kilogram				143.53
	Say				143.55

7.42 Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8698	Stainless steel cramps(weight 260 grams) with nuts, bolts and washer for dry stone cladding	each	10.000	90.00	900.00
	LABOUR:				
	for making holes, recesses etc. and fixing of stainless steel cramps				
0103	Blacksmith 2nd class	day	0.100	399.00	39.90
0124	Mason (brick layer) 2nd class	day	1.000	399.00	399.00
0114	Beldar	day	1.100	329.00	361.90
9999	Scaffolding, hire charge of drill machine etc.	L.S.	20.800	1.78	37.02
9999	Sundries	L.S.	20.800	1.78	37.02
	TOTAL				1774.84
	Add Water Charges @ 1%				17.75
	TOTAL				1792.59
	Add CPOH @ 15%				268.89
	Cost of 10 nos				2061.48
	Cost of each				206.15
	Say				206.15

SUB HEAD : 8.0

**MARBLE &
GRANITE WORK**

8.1 Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of 12 mm thick average in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately).

8.1.1 Raj Nagar Plain white marble / Udaipur green marble / Zebra black marble.

8.1.1.1 Area of slab upto 0.50 sqm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.50 sqm</i>				
	Finished work = 0.50sqm				
	Add for wastage @ 20% = 0.10				
	sqmTotal = 0.60 sqm				
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	0.600	650.00	390.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.030	94.65	2.84
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.008	5003.35	40.03
	White cement mortar 1:2 (1 white cement: 2 marble dust)				
3.15	Rate as per Item Number 3.15 of SH: Mortars	cum	0.001	10979.65	13.18
	LABOUR:				
	For fixing				
0126	Mason (for ornamental stone work) 1 st class	day	0.335	435.00	145.73
0100	Bandhani	day	0.335	363.00	121.60
0114	Beldar	day	0.335	329.00	110.22
0115	Coolie	day	0.335	329.00	110.22
0101	Bhisti	day	0.335	363.00	121.60
0128	Mate	day	0.165	363.00	59.90
0102	Blacksmith 1 st class	day	0.135	435.00	58.72
9999	Scaffolding	L.S.	13.390	1.78	23.83
	TOTAL				1197.87
	Add Water Charges @ 1%				11.98
	TOTAL				1209.85
	Add CPOH @ 15%				181.48
	Cost of 0.5 sqm				1391.33
	Cost of 1 sqm				2782.66
	Say				2782.65

8.1.1.2 Area of slab over 0.50 sqm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 sqm</i>				
	Finished work = 1.00sqm				
	Add for wastage @ 20% =0.20 sqm				
	Total = 1.20sqm				
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	1.200	750.00	900.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.060	94.65	5.68
	Cement mortar 1:3 (Cement: 3 Coarse sand)				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars White cement mortar 1:2 (1 white cement: 2 marble dust)	cum	0.014	5003.35	72.05
3.15	Rate as per Item Number 3.15 of SH: Mortars LABOUR: For fixing	cum	0.003	10979.65	27.45
0126	Mason (for ornamental stone work) 1 st class	day	0.670	435.00	291.45
0100	Bandhani	day	0.670	363.00	243.21
0114	Beldar	day	0.670	329.00	220.43
0115	Coolie	day	0.670	329.00	220.43
0101	Bhisti	day	0.670	363.00	243.21
0128	Mate	day	0.330	363.00	119.79
0102	Blacksmith 1 st class	day	0.270	435.00	117.45
9999	Scaffolding	L.S.	26.910	1.78	47.90
TOTAL					2509.05
Add Water Charges @ 1%					25.09
TOTAL					2534.14
Add CPOH @ 15%					380.12
Cost of 1 sqm					2914.26
Say					2914.25
8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
8.2.1	Raj Nagar Plain white marble / Udaipur green marble / Zebra black marble				
8.2.1.1	Area of slab upto 0.50 sqm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.50 sqm</i>				
	Mirror polished Abu plain white = 0.50 sqm				
	Wastage 5% = 0.025 sqm				
	Total = 0.525 sqm				
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	0.525	650.00	341.25
	Cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars LABOUR:	cum	0.012	4172.05	50.06
0123	Mason (brick layer) 1 st class	day	0.700	435.00	304.50
0114	Beldar	day	0.325	329.00	106.92
0115	Coolie	day	0.325	329.00	106.92
9999	Moulding and edge polishing	L.S.	39.000	1.78	69.42
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.250	1.78	28.92
TOTAL					1007.99
Add Water Charges @ 1%					10.08
TOTAL					1018.07
Add CPOH @ 15%					152.71
Cost of 0.5 sqm					1170.78
Cost of 1 sqm					2341.56
Say					2341.55

8.2.1.2 Area of slab over 0.50 sqm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 sqm</i>				
	Mirror polished Abu plain white = 1.00 sqm				
	Wastage 5% = 0.05 sqm				
	Total.=1.05 sqm				
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	1.050	750.00	787.50
	Cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	4172.05	100.13
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.400	435.00	609.00
0114	Beldar	day	0.650	329.00	213.85
0115	Coolie	day	0.650	329.00	213.85
9999	Moundling and edge polishing	L.S.	78.000	1.78	138.84
9999	Sundries apoxy resin & cutting machine etc.	L.S.	32.500	1.78	57.85
	TOTAL				2121.02
	Add Water Charges @ 1%				21.21
	TOTAL				2142.23
	Add CPOH @ 15%				321.33
	Cost of 1 sqm				2463.56
	Say				2463.55

8.2.2 Granite of any colour and shade					
8.2.2.1 Area of slab upto 0.50 sqm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.50 sqm</i>				
	Mirror polished granite= 0.50 sqm.				
	Wastage % = 0.025 sqm				
	Total = 0.525 sqm				
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	0.525	1900.00	997.50
	Cement mortar 1:4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.012	4172.05	50.06
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.700	435.00	304.50
0114	Beldar	day	0.325	329.00	106.92
0115	Coolie	day	0.325	329.00	106.92
9999	Moundling and edge polishing	L.S.	39.000	1.78	69.42
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.250	1.78	28.92
	TOTAL				1664.24
	Add Water Charges @ 1%				16.64
	TOTAL				1680.88
	Add CPOH @ 15%				252.13
	Cost of 0.5 sqm				1933.01
	Cost of 1 sqm				3866.02
	Say				3866.00

8.2.2.2 Area of slab over 0.50 sqm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.00 sqm</i>				
	Mirror polished granite= 2.00 sqm				
	Wastage 5% = 0.10sqm				
	Total = 2.10sqm				
7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	2.100	2000.00	4200.00
	Cement mortar 1:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.048	4172.05	200.26
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	2.800	435.00	1218.00
0114	Beldar	day	1.300	329.00	427.70
0115	Coolie	day	1.300	329.00	427.70
9999	Moulding and edge polishing	L.S.	78.000	1.78	138.84
9999	Sundries apoxy resin & cutting machine etc.	L.S.	65.000	1.78	115.70
	TOTAL				6728.20
	Add Water Charges @ 1%				67.28
	TOTAL				6795.48
	Add CPOH @ 15%				1019.32
	Cost of 2 sqm				7814.80
	Cost of 1 sqm				3907.40
	Say				3907.40
8.3	Providing edge moulding to 18 mm thick marble stone counters, vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
8.3.1	Marble work				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.00m</i>				
	LABOUR:				
0019	Hand Grinder for mirror polish	day	1.500	250.00	375.00
0114	Beldar	day	2.000	329.00	658.00
9999	Sundries Blades & Polish etc.	L.S.	78.000	1.78	138.84
	TOTAL				1171.84
	Add Water Charges @ 1%				11.72
	TOTAL				1183.56
	Add CPOH @ 15%				177.53
	Cost of 10 metre				1361.09
	Cost of 1 metre				136.11
	Say				136.10
8.3.2	Granite work				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.00m</i>				
	LABOUR:				
0019	Hand Grinder for mirror polish	day	2.500	250.00	625.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	3.500	329.00	1151.50
9999	Sundries Blades & Polish etc.	L.S.	117.000	1.78	208.26
	TOTAL				1984.76
	Add Water Charges @ 1%				19.85
	TOTAL				2004.61
	Add CPOH @ 15%				300.69
	Cost of 10 metre				2305.30
	Cost of 1 metre				230.53
	Say				230.55

8.4 Extra for fixing marble / granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for facia 1.5m long and 0.15m wide</i>				
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.300	435.00	130.50
0115	Coolie	day	0.300	329.00	98.70
9999	Scaffolding, expoxy etc.	L.S.	39.000	1.78	69.42
	Cement mortar 1:4 (1 Cement: 4 Coarse sand)				
	1.5x0.15x0.02 = 0.005 cum				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.005	4172.05	20.86
	TOTAL				319.48
	Add Water Charges @ 1%				3.19
	TOTAL				322.67
	Add CPOH @ 15%				48.40
	Cost of 1.5 metre				371.07
	Cost of 1 metre				247.38
	Say				247.40

8.5 Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for providing one opening of required size</i>				
	LABOUR:				
0126	Mason (for ornamental stone work) 1 st class	day	0.400	435.00	174.00
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	15.300	1.78	27.23
	TOTAL				332.83
	Add Water Charges @ 1%				3.33
	TOTAL				336.16
	Add CPOH @ 15%				50.42
	Cost of each				386.58
	Say				386.60

8.6	Mirror polishing on marble work/ granite work/ stone work where ever required to give high gloss finish complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0013	Machine for rubbing of floors	day	1.000	350.00	350.00
0114	Beldar	day	2.500	329.00	822.50
0101	Bhisti	day	1.500	363.00	544.50
9999	Sundries grease, mop grinding stones etc.	L.S.	65.000	1.78	115.70
	TOTAL				1832.70
	Add Water Charges @ 1%				18.33
	TOTAL				1851.03
	Add CPOH @ 15%				277.65
	Cost of 10 sqm				2128.68
	Cost of 1 sqm				212.87
	Say				212.85
8.7	Providing and fixing cramps of required size & shape in RCC/ CC / Brick masonry backing with cement mortar 1:2 (1 cement :2 coarse sand), including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).				
8.7.1	Gunmetal cramps				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cramps</i>				
	MATERIAL:				
	Gun Metal cramp				
	$10 \times 0.064 \times 0.025 \times 0.006 = 9.6 \times 10^{-5}$				
	$10 \times 0.025 \times 0.025 \times 0.006 = 3.7 \times 10^{-5} = 13.3 \times 10^{-5}$				
	Less hole				
	$10 \times 0.024 \times 0.010 \times 0.006 = 1.4 \times 10^{-5} = 11.9 \times 10^{-5}$				
	$11.9 \times 10^{-5} \times 8640 = 1.03 \text{ kg}$				
	Add wastage @ 5% = 0.051 kg = 1.08 kg				
7338	Gun metal cramp	kilogram	1.080	330.00	356.40
9999	Carriage	L.S.	3.900	1.78	6.94
	Cement mortar 1:2 (1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5933.65	5.93
9999	Labour for fixing in position	L.S.	65.000	1.78	115.70
	TOTAL				484.97
	Add Water Charges @ 1%				4.85
	TOTAL				489.82
	Add CPOH @ 15%				73.47
	Cost of 1.03 kg				563.29
	Cost of 1 kg				546.88
	Say				546.90
8.7.2	Stainless steel cramps				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cramps</i>				
	MATERIAL:				
	Stainless steel cramp $10 \times 0.064 \times 0.025 \times 0.006 = 9.6 \times 10^{-5}$				
	$10 \times 0.025 \times 0.025 \times 0.006 = 3.7 \times 10^{-5} = 13.3 \times 10^{-5}$				
	Less hole				
	$10 \times 0.024 \times 0.010 \times 0.006 = 1.4 \times 10^{-5}$				
	$11.9 \times 10^{-5} \times 7850 = 0.934 \text{ kg}$				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add wastage @ 5%=0.047 kg				
	Total = 0.981kg				
7339	Stainless steel cramp	kilogram	0.981	340.00	333.54
9999	Carriage	L.S.	3.900	1.78	6.94
	Cement montar 1:2 (1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	5933.65	5.93
9999	Labour for fixing in position	L.S.	65.000	1.78	115.70
	TOTAL				462.11
	Add Water Charges @ 1%				4.62
	TOTAL				466.73
	Add CPOH @ 15%				70.01
	Cost of 0.934 kg				536.74
	Cost of 1 kg				574.67
	Say				574.65

8.8 Providing and fixing expansion hold fasteners on C.C./R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.

8.8.1 Wedge expansion type

8.8.1.1 Fastener with threaded dia 6 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30 nos. W.E.H. fastener</i>				
	MATERIAL:				
7430	Wedge expansion hold fastener 1/4" or 6 mm	each	30.000	14.00	420.00
	36.5mm length				
1034	Bolts and nuts up to 300 mm in length	quintal	0.0045	5600.00	25.20
	(36.5+10mm)				
	LABOUR:				
0116	Fitter (grade 1)	day	0.250	435.00	108.75
0114	Beldar	day	0.250	329.00	82.25
9999	Hire and running charges for hand drill machine Sundries, drilling bit scaffolding etc	L.S.	32.500	1.78	57.85
	TOTAL				694.05
	Add Water Charges @ 1%				6.94
	TOTAL				700.99
	Add CPOH @ 15%				105.15
	Cost of 30 nos				806.14
	Cost of each				26.87
	Say				26.85

8.8.1 Wedge expansion type

8.8.1.2 Fastener with threaded dia 10 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30 nos. W.E.H. fastener</i>				
	MATERIAL:				
7431	Wedge expansion hold fastener 3/8" or 10 mm	each	30.000	15.00	450.00
	44.5mm length				
1034	Bolts and nuts up to 300 mm in length	quintal	0.006	5600.00	33.60
	(44.5+10mm)				
	LABOUR:				
0116	Fitter (grade 1)	day	0.250	435.00	108.75

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.250	329.00	82.25
9999	Hire and running charge for hand drill machine Sundries, drilling bit scaffolding etc	L.S.	32.500	1.78	57.85
	TOTAL				732.45
	Add Water Charges @ 1%				7.32
	TOTAL				739.77
	Add CPOH @ 15%				110.97
	Cost of 30 nos				850.74
	Cost of each				28.36
	Say				28.35

8.8.1 Wedge expansion type

8.8.1.3 Fastener with threaded dia 12 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30 nos.</i>				
	MATERIAL:				
7432	Wedge expansion hold fastener 1/2" or 12 mm 58.7mm length	each	30.000	28.00	840.00
1034	Bolts and nuts up to 300 mm in length Length (58.7+10mm) @ 0.05 kg./each	quintal	0.0075	5600.00	42.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.250	435.00	108.75
0114	Beldar	day	0.250	329.00	82.25
9999	Hire and running charges for hand drill	L.S.	32.500	1.78	57.85
	TOTAL				1130.85
	Add Water Charges @ 1%				11.31
	TOTAL				1142.16
	Add CPOH @ 15%				171.32
	Cost of 30 nos				1313.48
	Cost of each				43.78
	Say				43.80

8.9 Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/ sqm including pointing in white cement complete.

8.9.1 8 mm thick

8.9.1.1 Raj nagar plain white marble / Udaipur green marble / Zebra black marble

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	8mm thick marble tiles.				
	Qty. = 1.00 sqm. +				
	Add wastage @2.5% = 0.025 sqm				
	Total = 1.025 sqm				
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	1.025	400.00	410.00
9999	Carriage of tiles	L.S.	3.950	1.78	7.03
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	5003.35	70.05
9999	Mortar for pointing	L.S.	25.380	1.78	45.18
0367	Portland Cement	tonne	0.003	6300.00	20.79
0123	Mason (brick layer) 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries etc.	L.S.	16.900	1.78	30.08
	TOTAL				1347.13
	Add Water Charges @ 1%				13.47
	TOTAL				1360.60
	Add CPOH @ 15%				204.09
	Cost of 1 sqm				1564.69
	Say				1564.70

8.9.1.2 Granite of any colour and shade					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	8mm thick Granite tiles.				
	Qty. = 1.00 sqm.				
	Add wastage. @2.5% = 0.025sqm				
	Total = 1.025 sqm				
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	1.025	700.00	717.50
9999	Carriage of tiles	L.S.	3.950	1.78	7.03
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	5003.35	70.05
9999	Mortar for pointing	L.S.	25.380	1.78	45.18
0367	Portland Cement	tonne	0.003	6300.00	20.79
0123	Mason (brick layer) 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries etc.	L.S.	16.900	1.78	30.08
	TOTAL				1654.63
	Add Water Charges @ 1%				16.55
	TOTAL				1671.18
	Add CPOH @ 15%				250.68
	Cost of 1 sqm				1921.86
	Say				1921.85
8.10 Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-Charge and finished smooth.					
8.10.1 White Agaria Marble Stone					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one No or 0.375 sqm</i>				
	MATERIAL:				
	Agaria Marble Stone 1 x 0.75 x0.50 = 0.375				
	Add wastage @ 20% = 0.075 sqm.				
	Total = 0.45sqm				
7244	Table rubbed polished stone 18 mm thick (75x50cm)				
	Agaria Marble stone - 18 mm thick	sqm	0.450	2000.00	900.00
9999	Cement concrete 1:2:4 for filling	L.S.	21.580	1.78	38.41
9999	Labour for fixing, edge rounding and final polishing	L.S.	43.160	1.78	76.82
9999	Sundries	L.S.	21.580	1.78	38.41
	TOTAL				1053.64
	Add Water Charges @ 1%				10.54
	TOTAL				1064.18
	Add CPOH @ 15%				159.63
	Cost of 0.375 sqm				1223.81
	Cost of 1 sqm				3263.49
	Say				3263.50
8.10.2 Granite Stone of approved shade					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one No or 0.375 sqm</i>				
	MATERIAL:				
	Granite Stone 1x0.75x0.50 = 0.375sqm.				
	Add wastage @ 20% = 0.075 sqm				
	Total = 0.45 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7245	Table rubbed polished stone 18mm thick (75x50cm)				
	Granite stone - 18 mm thick	sqm	0.450	2000.00	900.00
9999	Cement concrete 1:2:4 for fixing	L.S.	21.580	1.78	38.41
9999	Labour for fixing, edge rounding and final polishing	L.S.	43.160	1.78	76.82
9999	Sundries	L.S.	21.580	1.78	38.41
	TOTAL				1053.64
	Add Water Charges @ 1%				10.54
	TOTAL				1064.18
	Add CPOH @ 15%				159.63
	Cost of 0.375 sqm				1223.81
	Cost of 1 sqm				3263.49
	Say				3263.50

8.11 Providing and fixing machine cut, mirror / eggshell polished , Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge.a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 sqm</i>				
	<i>Details of cost for 0.5 sqm</i>				
	<i>Finished work= 0.5 sqm</i>				
	<i>Add for wastage @ 20%=0.1sqm</i>				
	<i>Total 0.60 sqm</i>				
	MATERIAL:				
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	0.600	3600.00	2160.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.030	94.65	2.84
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.008	5003.35	40.03
0368	White Cement	tonne	0.00165	14000.00	23.10
	Slurry @ 3.3kg/ sqm				
2209	Carriage of cement	tonne	0.00165	94.65	0.16
9999	Mortar for pointing in white cement	L.S.	25.350	1.78	45.12
	LABOUR:				
	For fixing				
0126	Mason (for ornamental stone work) 1 st class	day	0.335	435.00	145.73
0100	Bandhani	day	0.335	363.00	121.60
0114	Beldar	day	0.335	329.00	110.22
0115	Coolie	day	0.335	329.00	110.22
0101	Bhisti	day	0.335	363.00	121.60
0128	Mate	day	0.165	363.00	59.90
0102	Blacksmith 1 st class	day	0.135	435.00	58.72
9999	Scaffolding	L.S.	13.390	1.78	23.83
	TOTAL				3023.07
	Add Water Charges @ 1%				30.23
	TOTAL				3053.30
	Add CPOH @ 15%				458.00
	Cost of 0.50 sqm				3511.30
	Cost of 1 sqm				7022.60
	Say				7022.60

- 8.12 Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : a. Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.**

Code No	Description	Unit	Quantity	Rate ₹	Amount
	<i>Details of cost for 1.00 sqm</i>				
	MATERIAL:				
	18 mm thick Flamed finish granite stone slab 10.00 sqm				
	Add for wastage 15%= 1.50 sqm				
	Total: 11.50 sqm				
1239	18 mm thick Flamed finish granite stone slab	sqm	11.500	2000.00	23000.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.670	94.65	63.42
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
0367	Portland Cement	tonne	0.050	6300.00	315.00
0874	Black colour dark shade pigment	kilogram	4.500	55.00	247.50
2209	Carriage of cement	tonne	0.050	94.65	4.73
9999	Mortar for pointing in white cement	L.S.	25.350	1.78	45.12
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.200	399.00	478.80
0114	Beldar	day	1.000	329.00	329.00
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00
9999	Sundries	L.S.	208.130	1.78	370.47
	TOTAL				27932.58
	Add Water Charges @ 1%				279.33
	TOTAL				28211.91
	Add CPOH @ 15%				4231.79
	Cost of 10 sqm				32443.70
	Cost of 1 sqm				3244.37
	Say				3244.35

SUB HEAD : 9.0

WOOD & PVC WORK

9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
9.1.1	Second class teak wood				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door</i>				
	<i>206.75x117.5cm</i>				
	MATERIAL:				
	Superior class teakwood such as Dandeli				
	Balarshah or Malabar				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.5x9.5x7.0cm = 0.008cum.= 0.036cum.				
	Add for wastage @ 5%=0.002 cum.				
	Grand Total = 0.038cum = 38 cudm				
1189	Second class teak wood in scantling	10 cudm	38.000	660.00	2508.00
2204	Carriage of timber	cum	0.038	121.70	4.62
	LABOUR:				
0156	Carpenter (average)	day	0.720	417.00	300.24
0114	Beldar	day	0.070	329.00	23.03
	TOTAL				2835.89
	Add Water Charges @ 1%				28.36
	TOTAL				2864.25
	Add CPOH @ 15%				429.64
	Cost of 0.036 cum				3293.89
	Cost of 1 cum				91496.94
	Say				91496.90
9.1.2	Sal wood				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door</i>				
	<i>206.75x117.5cm</i>				
	MATERIAL:				
	Salwood				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.50x9.5 x 7.0cm = 0.008cum.				
	= 0.036cum.				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum = 38 cudm				
1199	Sal wood in scantling	10 cudm	38.000	530.00	2014.00
2204	Carriage of timber	cum	0.038	121.70	4.62
	LABOUR:				
0156	Carpenter (average)	day	0.720	417.00	300.24
0114	Beldar	day	0.070	329.00	23.03
	TOTAL				2341.89
	Add Water Charges @ 1%				23.42
	TOTAL				2365.31
	Add CPOH @ 15%				354.80
	Cost of 0.036 cum				2720.11
	Cost of 1 cum				75558.61
	Say				75558.60

9.1.3 Kiln seasoned and chemically treated Hollock wood					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door</i> <i>206.75x117.5cm</i> MATERIAL: Hollock wood 2x206.75x9.5x7.0cm =0.028cum+ 1x117.50 x9.5x7.0cm = 0.008cum. = 0.036cum.+ Add for wastage @ 5% = 0.002cum. Grand Total = 0.038cum = 38 cudm				
2466	Hollock wood in scantling	10 cudm	38.000	340.00	1292.00
2204	Carriage of timber	cum	0.038	121.70	4.62
2504	Kiln seasoning of timber	cum	0.038	750.00	28.50
9999	Chemical treatment	L.S.	8.970	1.78	15.97
	LABOUR:				
0156	Carpenter (average)	day	0.720	417.00	300.24
0114	Beldar	day	0.070	329.00	23.03
	TOTAL				1664.36
	Add Water Charges @ 1%				16.64
	TOTAL				1681.00
	Add CPOH @ 15%				252.15
	Cost of 0.036 cum				1933.15
	Cost of 1 cum				53698.61
	Say				53698.60
9.2 Providing laminated veneer lumber conforming to IS:14616 and TAD -15: 2001(Part B) in factory made frames of doors, windows, clerestory windows and other frames, wrought framed and fixing in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door</i> <i>206.75x117.5cm</i> MATERIAL: Laminated veneer lumber including wastage @ 5% 2x206.75x9.5x7.0cm =0.028cum 1x117.50x9.5x 7.0cm = 0.008cum. = 0.036cum. Add for wastage @ 5% = 0.002cum. Grand Total = 0.038cum = 38 cudm				
7157	Laminated veneer lumber confirming to TADS 15:1995 manufactured in factory in frames of doors, windows	10 cudm	38.000	730.00	2774.00
2204	Carriage of timber	cum	0.038	121.70	4.62
	LABOUR:				
0111	Carpenter 1 st class	day	0.200	435.00	87.00
0112	Carpenter 2nd class	day	0.200	399.00	79.80
0114	Beldar	day	0.200	329.00	65.80
	TOTAL				3011.22
	Add Water Charges @ 1%				30.11
	TOTAL				3041.33
	Add CPOH @ 15%				456.20
	Cost of 0.036 cum				3497.53
	Cost of 1 cum				97153.61
	Say				97153.60

9.3 Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position :					
9.3.1 Sal wood					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for ceiling for a room 3x3m</i>					
MATERIAL:					
Salwood= $6 \times 3.30 \times (50/1000) \times (125/1000) = 0.1238$ cum.					
+Cross battens 60mm centre to center					
38x50mm.					
$6 \times 3 \times (38/1000) \times (50/1000) = 0.0342$ cum.=					
0.1580 cum.+					
Add for wastage @ 5% = 0.0079 cum.=					
0.1659 cum. say 166 cudm					
1199	Sal wood in scantling	10 cudm	166.000	530.00	8798.00
2204	Carriage of timber	cum	0.166	121.70	20.20
LABOUR:					
0112	Carpenter 2nd class	day	1.000	399.00	399.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries and screws etc.	L.S.	53.820	1.78	95.80
TOTAL					9642.00
Add Water Charges @ 1%					96.42
TOTAL					9738.42
Add CPOH @ 15%					1460.76
Cost of 0.158 cum					11199.18
Cost of 1 cum					70880.89
Say					70880.90
9.3.2 Kiln seasoned and chemically treated hollock wood					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for ceiling for a room 3x3m</i>					
MATERIAL:					
Hollock wood					
= $6 \times 3.30 \times (50/1000) \times (125/1000) = 0.1238$ cum.					
+Cross battens 60mm centre to center					
38x50mm.					
$6 \times 3 \times (38/1000) \times (50/1000) = 0.0342$ cum.					
= 0.1580 cum.+					
Add for wastage @ 5% = 0.0079 cum.					
= 0.1659 cum. say 166 cudm					
2466	Hollock wood in scantling	10 cudm	166.000	340.00	5644.00
2204	Carriage of timber	cum	0.166	121.70	20.20
2504	Kiln seasoning of timber	cum	0.166	750.00	124.50
9999	Chemical treatment	L.S.	18.200	1.78	32.40
LABOUR:					
0112	Carpenter 2nd class	day	1.000	399.00	399.00
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries screws etc	L.S.	53.820	1.78	95.80
TOTAL					6644.90
Add Water Charges @ 1%					66.45
TOTAL					6711.35
Add CPOH @ 15%					1006.70
Cost of 0.158 cum					7718.05
Cost of 1 cum					48848.42
Say					48848.40

9.4	Extra for circular works, such as in frames of fan light:				
9.4.1	Second class teak wood				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door</i> <i>206.75x117.5cm</i> Extra Materials and labour for wastage @ 10% on quantity of item no 9.1.1 MATERIAL:				
1189	Second class teak wood in scantling	10 cudm	3.800	660.00	250.80
2204	Carriage of timber	cum	0.004	121.70	0.46
	LABOUR:				
0156	Carpenter (average)	day	0.072	417.00	30.02
0114	Beldar	day	0.007	329.00	2.30
	TOTAL				283.58
	Add Water Charges @ 1%				2.84
	TOTAL				286.42
	Add CPOH @ 15%				42.96
	Cost of 0.036 cum				329.38
	Cost of 1 cum				9149.44
	Say				9149.45
9.4.2	Sal wood				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door</i> <i>206.75x117.5cm</i> Extra Materials and labour for wastage @10% on quantity of item no 9.1.2 MATERIAL:				
1199	Sal wood in scantling	10 cudm	3.800	530.00	201.40
2204	Carriage of timber	cum	0.0038	121.70	0.46
	LABOUR:				
0156	Carpenter (average)	day	0.072	417.00	30.02
0114	Beldar	day	0.007	329.00	2.30
	TOTAL				234.18
	Add Water Charges @ 1%				2.34
	TOTAL				236.52
	Add CPOH @ 15%				35.48
	Cost of 0.036 cum				272.00
	Cost of 1 cum				7555.56
	Say				7555.55
9.4.3	Kiln seasoned and chemically treated hollock wood				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door</i> <i>206.75x117.5cm</i> Extra Materials and labour for wastage @10% on quantity of item no 9.1.3 MATERIAL:				
2466	Hollock wood in scantling	10 cudm	3.800	340.00	129.20
2204	Carriage of timber	cum	0.0038	121.70	0.46
2504	Kiln seasoning of timber	cum	0.0038	750.00	2.85
9999	Chemical treatment	L.S.	0.900	1.78	1.60

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0156	Carpenter (average)	day	0.072	417.00	30.02
0114	Beldar	day	0.007	329.00	2.30
	TOTAL				166.43
	Add Water Charges @ 1%				1.66
	TOTAL				168.09
	Add CPOH @ 15%				25.21
	Cost of 0.036 cum				193.30
	Cost of 1 cum				5369.44
	Say				5369.45
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S.pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.				
9.5.1	Second class teak wood				
9.5.1.1	35 mm thick shutters				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a Door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16sqm)</i>				
	MATERIAL:				
	Teak wood				
	Styles 4x200x10.0x3.5cm = 0.028 cum +				
	Rails				
	Top rails 1x110.5x3.5cm = 0.004cum.+				
	Bottom rails 1x110.5x20x3.5cm = 0.008cum+				
	Lock rails 1x110.5x15 x 3.5cm = 0.006cum+				
	Beading 2x186. 1x1. 9x1.2cm =0.001cum.				
	Total = 0.047 cum+				
	Add for wastage @ 10% = 0.005cum				
	Grand Total = 0.051 cum = 51 cudm				
1190	Second class teak wood in planks	10 cudm	51.000	750.00	3825.00
2204	Carriage of timber	cum	0.051	121.70	6.21
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	1.830	417.00	763.11
0114	Beldar	day	0.760	329.00	250.04
9999	Sundries	L.S.	35.880	1.78	63.87
	TOTAL				5000.75
	Add Water Charges @ 1%				50.01
	TOTAL				5050.76
	Add CPOH @ 15%				757.61
	Cost of 2.16 sqm				5808.37
	Cost of 1 sqm				2689.06
	Say				2689.05

9.5.1.2 30 mm thick shutters					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a Door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16 sqm				
	MATERIAL:				
	Teak wood				
	Styles : 4x200x10.0x3.0cm = 0.024 cum +				
	Top rails : 1x110.5x9.5x3.0cm=0.003cum+				
	Bottom rails: 1x110.5x19.7x3.0cm =0.007cum+				
	Lockrails: 1x110.5 x15.0x3.0cm =0.005 cum+				
	Beading : 2x186.1x1.9x1.2cm = 0.001 cum.				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004 cum.				
	Grand Total = 0.044 cum = 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.000	750.00	3300.00
2204	Carriage of timber	cum	0.044	121.70	5.35
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	1.830	417.00	763.11
0114	Beldar	day	0.760	329.00	250.04
9999	Sundries	L.S.	35.880	1.78	63.87
	TOTAL				4474.89
	Add Water Charges @ 1%				44.75
	TOTAL				4519.64
	Add CPOH @ 15%				677.95
	Cost of 2.16 sqm				5197.59
	Cost of 1 sqm				2406.29
	Say				2406.30

9.5.2 Kiln seasoned and chemically treated hollock wood					
9.5.2.1 35 mm thick shutters					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for shutters of a door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16 sqm				
	MATERIAL:				
	Hollock wood				
	Styles 4x200x10.0x3.5cm = 0.028cum +				
	Rails				
	Top rails 1x110.5x10.0x3.5cm=0.004cum.+				
	Bottom rails 1x110.5x20.0x3.5cm = 0.008cum +				
	Lock rails 1 x 110.5x15.00x3.5cm = 0.006cum+				
	Beading 2x186.1x1.9 x 1.2cm = 0.001cum.				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.047 cum+				
	Add for wastage				
	@ 10% = 0.005cum				
	Grand Total = 0.051 cum = 51 cudm				
2505	Hollock wood in planks	10 cudm	51.000	390.00	1989.00
2204	Carriage of timber	cum	0.051	121.70	6.21
2504	Kiln seasoning of timber	cum	0.051	750.00	38.25
9999	Chemical treatment	L.S.	9.100	1.78	16.20
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	1.830	417.00	763.11
0114	Beldar	day	0.760	329.00	250.04
9999	Sundries	L.S.	35.880	1.78	63.87
	TOTAL				3219.20
	Add Water Charges @ 1%				32.19
	TOTAL				3251.39
	Add CPOH @ 15%				487.71
	Cost of 2.16 sqm				3739.10
	Cost of 1 sqm				1731.06
	Say				1731.05

9.5.2.2 30 mm thick shutters

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16sqm</i>				
	MATERIAL:				
	Hollock wood				
	Styles 4x200x10.0x3.0cm = 0.024 cum +				
	Rails				
	Top rails 1x110.5x9.50x3.0cm = 0.003cum.+				
	Lock rails 1x110.5x15.0x3.0cm = 0.005cum+				
	Bottom rails 1 x 110.5x19.7x3.0cm = 0.007cum+				
	Beading 2x186.1 x 1.9x1.2cm = 0.001cum				
	Total = 0.040 cum.+				
	Add for wastage @ 10% = 0.004cum				
	Grand Total = 0.044 cum or = 44 cudm				
2505	Hollock wood in planks	10 cudm	44.000	390.00	1716.00
2204	Carriage of timber	cum	0.044	121.70	5.35
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
9999	Chemical treatment	L.S.	9.100	1.78	16.20
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0156	Carpenter (average)	day	1.830	417.00	763.11
0114	Beldar	day	0.760	329.00	250.04
9999	Sundries	L.S.	35.880	1.78	63.87
	TOTAL				2940.09
	Add Water Charges @ 1%				29.40
	TOTAL				2969.49
	Add CPOH @ 15%				445.42
	Cost of 2.16 sqm				3414.91
	Cost of 1 sqm				1580.98
	Say				1581.00
9.5.3	Kiln seasoned selected planks of sheesham wood				
9.5.3.1	35 mm thick shutters				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Details of cost for shutters of a door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16 sqm Sheesham wood Styles 4x200x10.0x3.5cm = 0.028cum + Rails Top rails 1x110.5x10.0x3.5cm = 0.004cum. Lock rails 1x110.5x15.0x3.5cm = 0.006cum+ Beading 2x86.1 x 1.9x1.2cm = 0.001 cum Total = 0.047 cum.+ Add for wastage @ 10% = 0.005cum Grand Total = 0.051 cum or = 51 cudm</i>				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.000	650.00	3315.00
2204	Carriage of timber	cum	0.051	121.70	6.21
2504	Kiln seasoning of timber	cum	0.051	750.00	38.25
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	1.830	417.00	763.11
0114	Beldar	day	0.760	329.00	250.04
9999	Carriage	L.S.	35.880	1.78	63.87
	TOTAL				4529.00
	Add Water Charges @ 1%				45.29
	TOTAL				4574.29
	Add CPOH @ 15%				686.14
	Cost of 2.16 sqm				5260.43
	Cost of 1 sqm				2435.38
	Say				2435.40

9.5.3.2 30 mm thick shutters					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16sqm</i> Sheesham wood Styles 4x200x10.0x3.5cm = 0.028cum+ Rails Top rails 1x110.5x10.0x3.5cm = 0.004cum.+ Lock rails 1x110.5x15.0x3.5cm = 0.006cum+ Beading 2x186.1x1.9x1.2cm = 0.001 cum. Total = 0.047 cum.+ Add for wastage @ 10% = 0.005cum Grand Total=0.051 cum or = 51 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.000	650.00	2860.00
2204	Carriage of timber	cum	0.044	121.70	5.35
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 Nos	6.000	65.00	39.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
	LABOUR:				
0156	Carpenter (average)	day	1.830	417.00	763.11
0114	Beldar	day	0.760	329.00	250.04
9999	Carriage	L.S.	35.880	1.78	63.87
	TOTAL				4039.33
	Add Water Charges @ 1%				40.39
	TOTAL				4079.72
	Add CPOH @ 15%				611.96
	Cost of 2.16 sqm				4691.68
	Cost of 1 sqm				2172.07
	Say				2172.05
9.6	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), including ISI marked M.S.pressed butt hinges bright finished of required size with necessary screws, all complete as per directions of Engineer-in-Charge and panelling with panels of:				
9.6.1	12 mm thick plain grade - 1, medium density flat pressed three layer particle board FPT - I or graded wood particle board FPT-I, IS :3087 marked, bonded with BWP type synthetic resin adhesive as per IS : 848 :				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i> MATERIAL:				
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2.380	1850.00	4403.00
9999	Carriage of shutters	L.S.	29.640	1.78	52.76
	FITTINGS:				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.520	417.00	216.84
0114	Beldar	day	0.600	329.00	197.40
9999	Sundries	L.S.	35.880	1.78	63.87
	TOTAL				5026.39
	Add Water Charges @ 1%				50.26
	TOTAL				5076.65
	Add CPOH @ 15%				761.50
	Cost of 2.38 sqm				5838.15
	Cost of 1 sqm				2453.00
	Say				2453.00

9.6.2 12 mm thick pre-laminated particle board (decorative lamination on both sides) grade - 1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT - I, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and prelaminated conforming to IS : 12823, Grade 1, Type - II marked :

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i>				
	MATERIAL:				
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick both sides prelaminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2.380	2050.00	4879.00
9999	Carriage of shutters	L.S.	29.640	1.78	52.76
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.520	417.00	216.84
0114	Beldar	day	0.600	329.00	197.40
9999	Sundries	L.S.	35.880	1.78	63.87
	TOTAL				5502.39
	Add Water Charges @ 1%				55.02
	TOTAL				5557.41
	Add CPOH @ 15%				833.61
	Cost of 2.38 sqm				6391.02
	Cost of 1 sqm				2685.30
	Say				2685.30

9.6.3 12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade - 1 medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823 Grade -1, Type II marked:					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i>				
	MATERIAL:				
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2.380	2000.00	4760.00
9999	Carriage of shutters	L.S.	29.640	1.78	52.76
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.520	417.00	216.84
0114	Beldar	day	0.600	329.00	197.40
9999	Sundries	L.S.	35.880	1.78	63.87
	TOTAL				5383.39
	Add Water Charges @ 1%				53.83
	TOTAL				5437.22
	Add CPOH @ 15%				815.58
	Cost of 2.38 sqm				6252.80
	Cost of 1 sqm				2627.23
	Say				2627.25
9.7 Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick:					
9.7.1 Second class teak wood					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3rd panelling... 200x 108cm = 2.16sqm.</i>				
	<i>Panel area = 4x45.1x36.55cm = 0.66 sqm</i>				
	MATERIAL:				
	Panels 4x47.2x38.65x1.6cm = 0.0117cum +				
	Add for wastage @ 10% = 0.0012cum.				
	= 0.0129 cum				
1190	Second class teak wood in planks	10 cudm	12.900	750.00	967.50
2204	Carriage of timber	cum	0.0129	121.70	1.57
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				1224.89
	Add Water Charges @ 1%				12.25
	TOTAL				1237.14
	Add CPOH @ 15%				185.57
	Cost of 0.66 sqm				1422.71
	Cost of 1 sqm				2155.62
	Say				2155.60

9.7.2 Kiln seasoned and chemically treated hollock wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm</i>				
	MATERIAL:				
2505	Hollock wood in planks	10 cudm	12.900	390.00	503.10
	Hollock wood panels 4x45.1x36.55cm = 0.0117 cum+ Add for wastage @ 10% = 0.0012cum. Total = 0.0129 cum = 12.90 cudm				
2204	Carriage of timber	cum	0.0129	121.70	1.57
2504	Kiln seasoning of timber	cum	0.0129	750.00	9.68
9999	Chemical treatment	L.S.	8.970	1.78	15.97
	LABOUR:				
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				786.14
	Add Water Charges @ 1%				7.86
	TOTAL				794.00
	Add CPOH @ 15%				119.10
	Cost of 0.66 sqm				913.10
	Cost of 1 sqm				1383.48
	Say				1383.50

9.7.3 Ply wood 5 ply, 9 mm thick

9.7.3.1 Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling. 200 x 108cm = 2.16 sqm Panel area 4x45.1x36.55cm = 0.66sqm</i>				
	MATERIAL:				
	Plywood (9mm thick) 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	0.800	1050.00	840.00
9999	Carriage of plywood	L.S.	1.820	1.78	3.24
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				1099.06
	Add Water Charges @ 1%				10.99
	TOTAL				1110.05
	Add CPOH @ 15%				166.51
	Cost of 0.66 sqm				1276.56
	Cost of 1 sqm				1934.18
	Say				1934.20

9.7.3.2 Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3rd panelling. 200x108cm = 2.16 sqm</i>				
	<i>Panel area 4x45.1x36.55cm = 0.66sqm</i>				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	0.800	850.00	680.00
9999	Carriage of plywood	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				939.06
	Add Water Charges @ 1%				9.39
	TOTAL				948.45
	Add CPOH @ 15%				142.27
	Cost of 0.66 sqm				1090.72
	Cost of 1 sqm				1652.61
	Say				1652.60

9.7.4 Ply wood 7 ply, 9 mm thick

9.7.4.1 Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm</i>				
	<i>Panel area 4x45.1x36.55cm = 0.66sqm</i>				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	0.800	950.00	760.00
9999	Carriage of plywood	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				1019.06
	Add Water Charges @ 1%				10.19
	TOTAL				1029.25
	Add CPOH @ 15%				154.39
	Cost of 0.66 sqm				1183.64
	Cost of 1 sqm				1793.39
	Say				1793.40

9.7.5 Particle Board 12 mm thick

9.7.5.1 Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, IS : 3087 marked

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3rd panelling. 200x108cm = 2.16 sqm</i>				
	<i>Panel area 4x45.1x36.55cm = 0.66sqm</i>				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
0341	Flat pressed 3 layer particle board (medium density)				
	Grade 1, 12 mm thick	sqm	0.800	330.00	264.00
9999	Carriage of plywood	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				523.06
	Add Water Charges @ 1%				5.23
	TOTAL				528.29
	Add CPOH @ 15%				79.24
	Cost of 0.66 sqm				607.53
	Cost of 1 sqm				920.50
	Say				920.50

9.7.5.2 Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS :3097, grade I

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm=2.16 sqm</i>				
	<i>Panel area 4x45.1x36.55cm = 0.66sqm</i>				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	0.800	520.00	416.00
9999	Carriage of plywood	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				675.06
	Add Water Charges @ 1%				6.75
	TOTAL				681.81
	Add CPOH @ 15%				102.27
	Cost of 0.66 sqm				784.08
	Cost of 1 sqm				1188.00
	Say				1188.00

9.7.5.3 Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II, IS : 12823 marked

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm=2.16 sqm</i>				
	<i>Panel area 4x45.1x36.55cm = 0.66sqm</i>				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	0.800	750.00	600.00
9999	Carriage of plywood	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				859.06
	Add Water Charges @ 1%				8.59
	TOTAL				867.65
	Add CPOH @ 15%				130.15
	Cost of 0.66 sqm				997.80
	Cost of 1 sqm				1511.82
	Say				1511.80

9.7.5.4 Pre-laminated particle board with decorative lamination on both sides, Grade I, Type II, IS :12823 marked

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm</i>				
	<i>Panel area 4x45.1x36.55cm= 0.66sqm</i>				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
7480	Pre/aminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	0.800	790.00	632.00
9999	Carriage of plywood	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				891.06
	Add Water Charges @ 1%				8.91
	TOTAL				899.97
	Add CPOH @ 15%				135.00
	Cost of 0.66 sqm				1034.97
	Cost of 1 sqm				1568.14
	Say				1568.15

9.7.6 Coir Veneer Board (conforming to IS 14842)

9.7.6.1 12 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling 200x108cm = 2.16 sqm</i>				
	<i>Panel area 4x45.1x36.55cm = 0.66sqm</i>				
	MATERIAL :				
	Coir veneered board 12mm thick				
	4x47.2 x 38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
7555	Coir veneered board 12 mm thick	sqm	0.800	700.00	560.00
9999	Carriage	L.S.	1.820	1.78	3.24
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				819.06
	Add Water Charges @ 1%				8.19
	TOTAL				827.25
	Add CPOH @ 15%				124.09
	Cost of 0.66 sqm				951.34
	Cost of 1 sqm				1441.42
	Say				1441.40

9.7.7 Float glass panes					
9.7.7.1 4 mm thick glass pane					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling 200x108cm = 2.16 sqm</i>				
	<i>Panel area 4x45.1x36.55cm = 0.66sqm</i>				
	MATERIAL:				
	Coir veneered board 12mm thick				
	4x47.2x 38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
2406	Float glass sheet of nominal thickness 4 mm				
	(weight not less than 10 kg/sqm)	sqm	0.800	345.00	276.00
9999	Carriage	L.S.	1.820	1.78	3.24
0156	Carpenter (average)	day	0.570	417.00	237.69
0119	Glazier	day	0.150	399.00	59.85
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	25.470	1.78	45.34
	TOTAL				671.47
	Add Water Charges @ 1%				6.71
	TOTAL				678.18
	Add CPOH @ 15%				101.73
	Cost of 0.66 sqm				779.91
	Cost of 1 sqm				1181.68
	Say				1181.70
9.7.7.2 5.5 mm thick glass pane					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling 200x108cm = 2.16sqm</i>				
	<i>Panel area 4x45.1x36.55cm=0.67sqm</i>				
	MATERIAL:				
	Coir veneered board 12mm thick				
	4x47.2x 38.65cm=0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
2407	Float glass sheet of nominal thickness 5.5 mm				
	(weight not less than 13.50 kg/sqm)	sqm	0.800	520.00	416.00
9999	Carriage	L.S.	1.820	1.78	3.24
0156	Carpenter (average)	day	0.570	417.00	237.69
0119	Glazier	day	0.150	399.00	59.85
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	25.470	1.78	45.34
	TOTAL				811.47
	Add Water Charges @ 1%				8.11
	TOTAL				819.58
	Add CPOH @ 15%				122.94
	Cost of 0.67 sqm				942.52
	Cost of 1 sqm				1406.75
	Say				1406.75

9.7.8 Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia wire and 1.4 mm wide aperture with matching wood beading					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling 200x108 cm = 2.16 sqm</i> <i>Panel area 4x45.1x36.55 cm = 0.66 sqm</i> MATERIAL: Coir veneered board 12mm thick 4x47.2 x 38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	0.800	840.00	672.00
9999	Carriage	L.S.	1.820	1.78	3.24
0112	Carpenter 2nd class	day	0.570	399.00	227.43
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				910.54
	Add Water Charges @ 1%				9.11
	TOTAL				919.65
	Add CPOH @ 15%				137.95
	Cost of 0.66 sqm				1057.60
	Cost of 1 sqm				1602.42
	Say				1602.40
9.9 Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.					
9.9.1 Second class teak wood					
9.9.1.1 35 mm thick					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of a door (glazed)</i> <i>200x108cm = 2.16 sqm</i> Teak wood (2nd class) Styles : 4x200x9.5x3.5cm =0.027cum Rails: Top & intermediate rails 2x110.5x9.5x3.5cm = 0.008cum Lock and bottom rails 2x110.5x19.7x3.5cm= 0.015cum Beadings :2x186.1x1.9x1.2cm = 0.001cum 4x171.70x 1.9x 1.2cm = 0.002cum. Total = 0.053 cum. Add for wastage @ 10% = 0.005cum. Grand Total = 0.058 cum = 58 cudm				
1190	Second class teak wood in planks	10 cudm	58.000	750.00	4350.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.270	345.00	438.15
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
2204	Carriage of timber	cum	0.058	121.70	7.06
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0156	Carpenter (average)	day	1.830	417.00	763.11
0119	Glazier	day	0.230	399.00	91.77
0114	Beldar	day	0.770	329.00	253.33
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				6067.91
	Add Water Charges @ 1%				60.68
	TOTAL				6128.59
	Add CPOH @ 15%				919.29
	Cost of 2.16 sqm				7047.88
	Cost of 1 sqm				3262.91
	Say				3262.90

9.9.1.2 30 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of a door (glazed)</i>				
	200x108cm = 2.16 sqm				
	MATERIAL:				
	Teak wood Styles :				
	4x200x9.5x3.0cm = 0.023cum +				
	Rails :				
	Top & intermediate rails				
	2x110.5x9.5x3.0 cm = 0.006cum+				
	Lock and bottom rails				
	2x110.5x19.7x 3.0cm = 0.013cum+				
	Beadings-2x186.1x1.9x1.2cm =0.001cum +				
	4x 171.70x 1.9x 1.2cm = 0.002cum.				
	Total = 0.045 cum. +				
	Add for wastage @ 10% = 0.005cum.				
	Grand Total = 0.050 cum = 50 cudm				
1190	Second class teak wood in planks	10 cudm	50.000	750.00	3750.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.270	345.00	438.15
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
2204	Carriage of timber	cum	0.050	121.70	6.09
	LABOUR:				
0156	Carpenter (average)	day	1.830	417.00	763.11
0119	Glazier	day	0.230	399.00	91.77
0114	Beldar	day	0.770	329.00	253.33
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				5466.94
	Add Water Charges @ 1%				54.67
	TOTAL				5521.61
	Add CPOH @ 15%				828.24
	Cost of 2.16 sqm				6349.85
	Cost of 1 sqm				2939.75
	Say				2939.75

9.9.2 Kiln seasoned and chemically treated hollock wood

9.9.2.1 35 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of a door (glazed)</i>				
	200x108cm = 2.16 sqm				
	MATERIAL:				
	(i) Hollock wood				
	Styles : 4x200x9.5x3.5cm = 0.027cum+				
	Rails				
	Top & intermediate rails				
	2x110.5x9.5x3.50cm = 0.008cum+				
	Lock and bottom rails				
	2x110.5x19.7x3.50cm = 0.015cum+				
	Beadings-				
	2x186.1x1.9x1.2cm = 0.001cum +				
	4x 171.70x 1.9x 1.2cm = 0.002cum.				
	Total = 0.053 cum.				
	+ Add for wastage @ 10% = 0.005cum.				
	Grand Total = 0.058 cum or = 58 cudm				
2505	Hollock wood in planks	10 cudm	58.000	390.00	2262.00
2504	Kiln seasoning of timber	cum	0.058	750.00	43.50
9999	Chemical treatment	L.S.	9.100	1.78	16.20
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.270	345.00	438.15
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
2204	Carriage of timber	cum	0.058	121.70	7.06
	LABOUR:				
0156	Carpenter (average)	day	1.830	417.00	763.11
0119	Glazier	day	0.230	399.00	91.77
0114	Beldar	day	0.770	329.00	253.33
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				4039.61
	Add Water Charges @ 1%				40.40
	TOTAL				4080.01
	Add CPOH @ 15%				612.00
	Cost of 2.16 sqm				4692.01
	Cost of 1 sqm				2172.23
	Say				2172.25

9.9.2.2 30 mm thick					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of a door (glazed)</i>				
	200x108cm = 2.16 sqm				
	MATERIAL:				
	(i) Hollock wood Styles :				
	4x200x9.50x3.0cm=0.023cum+				
	Rails				
	Top & intermediate rails				
	2x110.5x9.50x3.0cm=0.006cum+				
	Lock and bottom rails				
	2x110.5x19.70x3.0cm =0.013cum+				
	Beadings-				
	2x186.1x1.9x1.2cm = 0.001cum+				
	4x 171.70x 1.9x 1.2cm = 0.002cum.				
	Total = 0.045 cum.+				
	Add for wastage @ 10%=0.005cum.				
	Grand Total = 0.050 = 50 cudm				
2505	Hollock wood in planks	10 cudm	50.000	390.00	1950.00
2504	Kiln seasoning of timber	cum	0.050	750.00	37.50
9999	Chemical treatment	L.S.	9.100	1.78	16.20
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.270	345.00	438.15
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
2204	Carriage of timber	cum	0.050	121.70	6.09
	LABOUR:				
0156	Carpenter (average)	day	1.830	417.00	763.11
0119	Glazier	day	0.230	399.00	91.77
0114	Beldar	day	0.770	329.00	253.33
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				3720.64
	Add Water Charges @ 1%				37.21
	TOTAL				3757.85
	Add CPOH @ 15%				563.68
	Cost of 2.16 sqm				4321.53
	Cost of 1 sqm				2000.71
	Say				2000.70

9.9.3 Kiln seasoned selected planks of sheesham wood**9.9.3.1 35 mm thick**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of a door (glazed)</i>				
	200 x 108 cm = 2.16 sqm				
	MATERIAL :				
	(i) Hollock wood				
	Styles : 4 x 200 x 9.53 x 3.5cm = 0.27 cum +				
	Rails				
	Top & intermediate rails				
	2 x 110.5 x 9.5x3.50cm = 0.008cum +				
	Lock and bottom rails				
	2x110.5 x 19.7 x 3.50cm = 0.015cum +				
	Beading				
	2x186.1x1.9x1.2 cm = 0.001 cum +				
	4 x171.70x1.9x1.20 cm = 0.002 cum				
	Total = 0.053 cum				
	Add for wastage@10% = 0.005 cum				
	Grand total = 0.058 cum or 58 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	58.000	650.00	3770.00
2504	Kiln seasoning of timber	cum	0.058	750.00	43.50
2406	Float glass sheet of nominal thickness 4 mm				
	(weight not less than 10 kg/sqm)	sqm	1.270	345.00	438.15
0595	Bright finished or black enameled mild steel butt				
	hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt				
	hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws				
	40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws				
	20 mm	100 Nos	8.000	32.00	2.56
2204	Carriage of timber	cum	0.058	121.70	7.06
0156	Carpenter (average)	day	1.830	417.00	763.11
0119	Glazier	day	0.230	399.00	91.77
0114	Beldar	day	0.770	329.00	253.33
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				5531.41
	Add Water Charges @ 1%				55.31
	TOTAL				5586.72
	Add CPOH @ 15%				838.01
	Cost of 2.16 sqm				6424.73
	Cost of 1 sqm				2974.41
	Say				2974.40

9.9.3.2 30 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a cup-board</i>				
	(half glazed and half panelled) 200x108cm =				
	2.16 sqm				
	(i) Sheesham wood				
	Styles :				
	4x200x9.50x3.0cm = 0.023cum +				
	Rails				
	Top & intermediate rails				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	2x110.5x9.50x3.0cm= 0.006cum+				
	Lock and bottom rails				
	2x110.5x19.70x3.0cm = 0.013cum+				
	Beadings-2x186.1x1.9x1.2cm= 0.001cum+				
	4x71.70x 1.9x 1.2cm = 0.002cum.				
	Total = 0.045 cum.+				
	Add for wastage @ 10% = 0.005cum.				
	Grand Total = 0.050 = 50 cudm				
	Panels : 2 x 48 x 41 x 1.6cm = 0.006cm +				
	Sash bars 2 x 114 x 3.8 x 2.5cm = 0.003 cum +				
	6 x 48 x 3.8 x 2.5cm = 0.003 cum +				
	Beading - 16 x 92 x 1.4 x 1.2cm = 0.002 cum				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	50.000	650.00	3250.00
2504	Kiln seasoning of timber	cum	0.050	750.00	37.50
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.270	345.00	438.15
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
2204	Carriage of timber	cum	0.050	121.70	6.09
0156	Carpenter (average)	day	1.830	417.00	763.11
0119	Glazier	day	0.230	399.00	91.77
0114	Beldar	day	0.770	329.00	253.33
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				5004.44
	Add Water Charges @ 1%				50.04
	TOTAL				5054.48
	Add CPOH @ 15%				758.17
	Cost of 2.16 sqm				5812.65
	Cost of 1 sqm				2691.04
	Say				2691.05

9.10 Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all as per directions of Engineer-in-charge.

9.10.1 30 mm thick shutters

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for one shutter 220x108cm = 2.38sqm				
	MATERIAL:				
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	2.380	1700.00	4046.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of shutters Fittings	L.S.	29.640	1.78	52.76
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.520	417.00	216.84
0114	Beldar	day	0.600	329.00	197.40
9999	Sundries	L.S.	35.880	1.78	63.87
	TOTAL				4669.39
	Add Water Charges @ 1%				46.69
	TOTAL				4716.08
	Add CPOH @ 15%				707.41
	Cost of 2.38 sqm				5423.49
	Cost of 1 sqm				2278.78
	Say				2278.80

9.11 Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).

9.11.1 5.5 mm thick instead of 4 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm.</i>				
	MATERIAL:				
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	1.000	520.00	520.00
	Deduct				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	-1.000	345.00	-345.00
	TOTAL				175.00
	Add Water Charges @ 1%				1.75
	TOTAL				176.75
	Add CPOH @ 15%				26.51
	Cost of 1 sqm				203.26
	Say				203.25

9.12 Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm.</i>				
	MATERIAL:				
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	1.000	350.00	350.00
	Deduct				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	-1.000	345.00	-345.00
	TOTAL				5.00
	Add Water Charges @ 1%				0.05
	TOTAL				5.05
	Add CPOH @ 15%				0.76
	Cost of 1 sqm				5.81
	Say				5.80
9.13	Deduct for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory window shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm.</i>				
	MATERIAL:				
	Deduct				
7451	Glass sheet (Pin headed) 4 mm thick	sqm	-1.000	320.00	-320.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.000	345.00	345.00
	TOTAL				25.00
	Add Water Charges @ 1%				0.25
	TOTAL				25.25
	Add CPOH @ 15%				3.79
	Cost of 1 sqm				29.04
	Say				29.05
9.14	Extra for providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt hinges bright finished of required size with necessary screws. (Shutter area to be measured).				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter of a door 200x108cm = 2.16 sqm</i>				
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
	Deduct				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	-6.000	90.00	-54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	-2.000	55.00	-11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	-48.000	52.00	-24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	-8.000	32.00	-2.56
	TOTAL				471.40
	Add Water Charges @ 1%				4.71
	TOTAL				476.11
	Add CPOH @ 15%				71.42
	Cost of 2.16 sqm				547.53
	Cost of 1 sqm				253.49
	Say				253.50

9.15 Deduct for not providing hinges in doors, windows and clerestory window shutters with:**9.15.1 Stainless steel butt hinges with stainless steel screws****9.15.1.1 For 2nd class teak wood and other class of wood shutters**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for fittings for shutter of size 200x108cm = 2.16 sqm</i>				
	MATERIAL:				
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
	TOTAL				563.92
	Add Water Charges @ 1%				5.64
	TOTAL				569.56
	Add CPOH @ 15%				85.43
	Cost of 2.16 sqm				654.99
	Cost of 1 sqm				303.24
	Say				303.25

9.15.2 ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws**9.15.2.1 For 2nd class teak wood and other class of wood shutters**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for hinges with screws for shutters of size 200x108cm = 2.16 sqm</i>				
	MATERIAL:				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	TOTAL				92.52
	Add Water Charges @ 1%				0.93
	TOTAL				93.45
	Add CPOH @ 15%				14.02
	Cost of 2.16 sqm				107.47
	Cost of 1 sqm				49.75
	Say				49.75

9.16 Providing and fixing 25 mm thick shutters for cup board etc. :**9.16.1 Panelled or panelled & glazed shutters :****9.16.1.1 Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a cup-board (half glazed and half paneled) 200x108cm = 2.16 sqm</i> MATERIAL: Styles-4x200x8.0x2.5cm = 0.016 cum+ Rails- Top rail - 1x1 10.5x8.0x2.5cm = 0.0022cum+ Lock and bottom rail- 2x110.5x8.0x2.5cm = 0.0044 cum.+ Panels-2x48x41x 1.6cm = 0.006cum+ Sash bars-2x114x3.8x2.5cm = 0.003cum +6x48x3.8x2.5cm = 0.003 cum+ Beading-16x92x 1.4x 1.2cm = 0.002cum Total = 0.0366 Add for wastage @ 10%=0.0037 cum. Grand Total = 0.0403 cum or 40 cudm				
1190	Second class teak wood in planks	10 cudm	40.000	750.00	3000.00
2204	Carriage of timber	cum	0.040	121.70	4.87
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	0.990	345.00	341.55
	Fittings				
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	6.000	400.00	240.00
0586	Chromium plated Brass screws 40 mm	100 Nos	48.000	220.00	105.60
	LABOUR:				
0111	Carpenter 1 st class	day	2.400	435.00	1044.00
0119	Glazier	day	0.180	399.00	71.82
0114	Beldar	day	0.770	329.00	253.33
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				5133.14
	Add Water Charges @ 1%				51.33
	TOTAL				5184.47
	Add CPOH @ 15%				777.67
	Cost of 2.16 sqm				5962.14
	Cost of 1 sqm				2760.25
	Say				2760.25

9.16.1.2 Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a cup board (half glazed and panelled) 200x108=2.16sqm</i> MATERIAL: Styles-4x200x8.0x2.25cm =0.016 cum + Rails- Top rail 1 x 1 10.5x8.0x2.5 cm =0.0022 cum +				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	lock and bottom rail-2x10.5x8.0x2.5 0.0044 cum + Panels :2 x 48 X 41 x 1.6 cm=0.006 cum + sash bars 2 x 114 x 3.8 x 2.5cm = 0.003 cum + 6 x 48 x 3.8 x 2.5 cm = 0.003 cum + Beading - 16 x 92 x 1.4 x 1.2cm = 0.002 cum Total=0.0336 Add for wastage @ 10% =0.0037 cum Grand Total = 0.0403 cum or 40 cudm				
1190	Second class teak wood in planks	10 cudm	40.000	750.00	3000.00
2204	Carriage of timber	cum	0.040	121.70	4.87
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	0.990	345.00	341.55
	Fittings:				
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.000	42.00	168.00
0586	Chromium plated Brass screws 40 mm	100 Nos	114.000	220.00	250.80
	LABOUR:				
0111	Carpenter 1 st class	day	2.400	435.00	1044.00
0119	Glazier	day	0.180	399.00	71.82
0114	Beldar	day	0.770	329.00	253.33
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				5206.34
	Add Water Charges @ 1%				52.06
	TOTAL				5258.40
	Add CPOH @ 15%				788.76
	Cost of 2.16 sqm				6047.16
	Cost of 1 sqm				2799.61
	Say				2799.60

9.16.2 Glazed shutters:

9.16.2.1 Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of cup-board</i> 200x108cm = 2.16 sqm MATERIAL: (i) Teak wood second class Styles : 4x200x9.5x2.5 cm = 0.019 cum Rails Top & intermediate rails 2x110.5x9.5x2.5cm = 0.006 cum Lock and bottom rails 2x110.5x19.7x2.5 cm = 0.011 cum Beadings-2x186.1x1.9x1.2cm = 0.001 cum + 4x 171.70x1.9x1.2cm = 0.002 cum. Total = 0.039 cum. Add for wastage @ 10% = 0.004 cum. Grand Total = 0.043 cum. 43 cudm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1190	Second class teak wood in planks	10 cudm	43.000	750.00	3225.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.270	345.00	438.15
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	6.000	400.00	240.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	48.000	38.00	18.24
2204	Carriage of timber LABOUR:	cum	0.043	121.70	5.23
0156	Carpenter (average)	day	1.830	417.00	763.11
0119	Glazier	day	0.230	399.00	91.77
0114	Beldar	day	0.770	329.00	253.33
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				5106.80
	Add Water Charges @ 1%				51.07
	TOTAL				5157.87
	Add CPOH @ 15%				773.68
	Cost of 2.16 sqm				5931.55
	Cost of 1 sqm				2746.09
	Say				2746.10

9.16.2.2 Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a cup board (half Glazed and half panelled) 200x108cm= 2.16 sqm MATERIAL: Teak wood second class styles 4 x 200 x 9.5 x 2.5cm = 0.019 cum Rails - Top & Internmediate rail 2 x 110.5 x 9.5 x 2.5cm=0.006 cum lock and bottom rail - 2 x 10.5 x19.7 x 2.5 cm=0.0011 cum Total = 0.039 cum Add for wastage @ 10 % =0.0004cum Grand Total = 0.0403 cum or 43 cudm</i>				
1190	Second class teak wood in planks	10 cudm	43.000	750.00	3225.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.270	345.00	438.15
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.000	42.00	168.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	114.000	38.00	43.32
2204	Carriage of timber	cum	0.043	121.70	5.23

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0156	Carpenter (average)	day	1.830	417.00	763.11
0119	Glazier	day	0.230	399.00	91.77
0114	Beldar	day	0.770	329.00	253.33
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				5059.88
	Add Water Charges @ 1%				50.60
	TOTAL				5110.48
	Add CPOH @ 15%				766.57
	Cost of 2.16 sqm				5877.05
	Cost of 1 sqm				2720.86
	Say				2720.85

9.17 Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately) :

9.17.1 12 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 350x200cm = 7sqm</i>				
	MATERIAL:				
	12mm thick particle board = 7.00sqm.+				
	Add wastage @ 5% = 0.35 sqm.				
	Total = 7.35 sqm				
0341	Flat pressed 3 layer particle board (medium density)				
	Grade 1, 12 mm thick	sqm	7.350	330.00	2425.50
9999	Carriage of particle board	L.S.	13.520	1.78	24.07
9999	Sundries and screws	L.S.	26.910	1.78	47.90
	LABOUR:				
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				3185.57
	Add Water Charges @ 1%				31.86
	TOTAL				3217.43
	Add CPOH @ 15%				482.61
	Cost of 7 sqm				3700.04
	Cost of 1 sqm				528.58
	Say				528.60

9.17.2 18 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 350x200cm = 7sqm</i>				
	MATERIAL:				
	12mm thick particle board = 7.00sqm.+				
	Add wastage @ 5% = 0.35 sqm				
	Total = 7.35 sqm				
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	IS : 3087 - 18 mm thick	sqm	7.350	440.00	3234.00
9999	Carriage of particle board	L.S.	19.760	1.78	35.17
9999	Sundries and screws	L.S.	26.910	1.78	47.90
	LABOUR:				
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				4005.17
	Add Water Charges @ 1%				40.05
	TOTAL				4045.22
	Add CPOH @ 15%				606.78
	Cost of 7 sqm				4652.00
	Cost of 1 sqm				664.57
	Say				664.55

9.18 Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).

9.18.1 18 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4 nos. 75x20cm shelves =</i>				
	<i>0.60 sqm</i>				
	<i>MATERIAL:</i>				
	<i>18mm thick particle board =</i>				
	<i>4x75x20cm = 0.60sqm.+</i>				
	<i>Wastage @ 5% = 0.03sqm:</i>				
	<i>Total = 0.63 sqm</i>				
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	0.630	860.00	541.80
9999	Carriage of board	L.S.	0.910	1.78	1.62
	LABOUR:				
0112	Carpenter 2nd class	day	0.110	399.00	43.89
0114	Beldar	day	0.060	329.00	19.74
9999	Sundries, painting edges & screws	L.S.	7.800	1.78	13.88
	TOTAL				620.93
	Add Water Charges @ 1%				6.21
	TOTAL				627.14
	Add CPOH @ 15%				94.07
	Cost of 0.6 sqm				721.21
	Cost of 1 sqm				1202.02
	Say				1202.00

9.18.2 25 mm thick					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4 nos. 75x20cm shelves =</i>				
	<i>0.60 sqm</i>				
	<i>MATERIAL:</i>				
	<i>25mm thick particle board =</i>				
	<i>4x75x20cm = 0.60sqm.+</i>				
	<i>Wastage @ 5% = 0.03sqm</i>				
	<i>Total = 0.63 sqm</i>				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	0.630	930.00	585.90
9999	Carriage of board	L.S.	1.820	1.78	3.24
	<i>LABOUR:</i>				
0112	Carpenter 2nd class	day	0.110	399.00	43.89
0114	Beldar	day	0.060	329.00	19.74
9999	Sundries, painting edges & screws	L.S.	7.800	1.78	13.88
	TOTAL				666.65
	Add Water Charges @ 1%				6.67
	TOTAL				673.32
	Add CPOH @ 15%				101.00
	Cost of 0.6 sqm				774.32
	Cost of 1 sqm				1290.53
	Say				1290.55
9.20 Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.					
9.20.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
	<i>MATERIAL:</i>				
0713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	2.200	1800.00	3960.00
9999	Carriage of door	L.S.	29.640	1.78	52.76
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
	<i>LABOUR:</i>				
	<i>For fixing shutter and fittings</i>				
0156	Carpenter (average)	day	0.550	417.00	229.35
0114	Beldar	day	0.550	329.00	180.95
	TOTAL				4936.90
	Add Water Charges @ 1%				49.37
	TOTAL				4986.27
	Add CPOH @ 15%				747.94
	Cost of 2.2 sqm				5734.21
	Cost of 1 sqm				2606.46
	Say				2606.45

9.20.2 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
	MATERIAL:				
0714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	2.200	1600.00	3520.00
9999	Carriage of door	L.S.	29.640	1.78	52.76
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.550	417.00	229.35
0114	Beldar	day	0.550	329.00	180.95
	TOTAL				4496.90
	Add Water Charges @ 1%				44.97
	TOTAL				4541.87
	Add CPOH @ 15%				681.28
	Cost of 2.2 sqm				5223.15
	Cost of 1 sqm				2374.16
	Say				2374.15
9.20.3 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
	MATERIAL:				
0715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	2.200	1500.00	3300.00
9999	Carriage of door	L.S.	29.640	1.78	52.76
	Fittings for a door 2.2x1.00m = 2.20 sqm				
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.400	42.00	184.80
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	125.000	38.00	47.50
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.550	417.00	229.35
0114	Beldar	day	0.550	329.00	180.95
	TOTAL				3995.36
	Add Water Charges @ 1%				39.95
	TOTAL				4035.31
	Add CPOH @ 15%				605.30
	Cost of 2.2 sqm				4640.61
	Cost of 1 sqm				2109.37
	Say				2109.35

9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
	MATERIAL:				
0717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	2.200	1200.00	2640.00
9999	Carriage of door	L.S.	29.640	1.78	52.76
	Fittings for a door 2.2x1.0m = 2.20 sqm				
8220	Stainless steel butt hinges (heavy weight)				
	100x60x2.5 mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.550	417.00	229.35
0114	Beldar	day	0.550	329.00	180.95
	TOTAL				3616.90
	Add Water Charges @ 1%				36.17
	TOTAL				3653.07
	Add CPOH @ 15%				547.96
	Cost of 2.2 sqm				4201.03
	Cost of 1 sqm				1909.56
	Say				1909.55
9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
	MATERIAL:				
0718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	2.200	1050.00	2310.00
9999	Carriage of door	L.S.	29.640	1.78	52.76
	Fittings for a door 2.2x1.0m = 2.20 sqm				
8220	Stainless steel butt hinges (heavyweight)				
	100x60x2.5mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.550	417.00	229.35
0114	Beldar	day	0.550	329.00	180.95
	TOTAL				3286.90
	Add Water Charges @ 1%				32.87
	TOTAL				3319.77
	Add CPOH @ 15%				497.97
	Cost of 2.2 sqm				3817.74
	Cost of 1 sqm				1735.34
	Say				1735.35

9.21.3 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
	MATERIAL:				
0719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	2.200	960.00	2112.00
9999	Carriage of door	L.S.	29.640	1.78	52.76
	Fittings for a door 2.2x1.0m = 2.20 sqm				
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.400	42.00	184.80
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	125.000	38.00	47.50
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.550	417.00	229.35
0114	Beldar	day	0.550	329.00	180.95
	TOTAL				2807.36
	Add Water Charges @ 1%				28.07
	TOTAL				2835.43
	Add CPOH @ 15%				425.31
	Cost of 2.2 sqm				3260.74
	Cost of 1 sqm				1482.15
	Say				1482.15
9.22 Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to I.S. 2202 (part I).					
9.22.1 On one side only					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm.</i>				
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	1.000	340.00	340.00
	TOTAL				340.00
	Add Water Charges @ 1%				3.40
	TOTAL				343.40
	Add CPOH @ 15%				51.51
	Cost of 1 sqm				394.91
	Say				394.90
9.23 Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm of door area</i>				
0752	Block board construction flush door lipping	sqm of door area	1.000	315.00	315.00
	TOTAL				315.00
	Add Water Charges @ 1%				3.15
	TOTAL				318.15
	Add CPOH @ 15%				47.72
	Cost of 1 sqm				365.87
	Say				365.85

9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :				
9.24.1	Rectangular or square				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm of door area</i>				
0753	Square vision panel in Block board construction flush door	sqm of door area	1.000	120.00	120.00
	TOTAL				120.00
	Add Water Charges @ 1%				1.20
	TOTAL				121.20
	Add CPOH @ 15%				18.18
	Cost of 1 sqm				139.38
	Say				139.40
9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :				
9.24.2	Circular				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm of door area</i>				
0754	Circular vision panel in Block board construction flush door	sqm of door area	1.000	195.00	195.00
	TOTAL				195.00
	Add Water Charges @ 1%				1.95
	TOTAL				196.95
	Add CPOH @ 15%				29.54
	Cost of 1 sqm				226.49
	Say				226.50
9.25	Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured).				
9.25.1	Decorative type door				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm of door area</i>				
0755	Decorative type louvers in Block board construction flush door	sqm of door area	1.000	325.00	325.00
	TOTAL				325.00
	Add Water Charges @ 1%				3.25
	TOTAL				328.25
	Add CPOH @ 15%				49.24
	Cost of 1 sqm				377.49
	Say				377.50

9.26 Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm of door area</i>				
0757	Rebate cutting in block board construction flush door	sqm of door area	1.000	90.00	90.00
	TOTAL				90.00
	Add Water Charges @ 1%				0.90
	TOTAL				90.90
	Add CPOH @ 15%				13.64
	Cost of 1 sqm				104.54
	Say				104.55
9.27 Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws:					
9.27.1 35 mm thick shutters					
9.27.1.1 With ISI marked M.S. pressed butt hinges bright finished of required size					
9.27.1.1.1 Second class teak wood					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m =</i>				
	<i>2.16 sqm</i>				
	MATERIAL:				
	Teak wood (2nd class)				
	Styles 4x200x9.5x3.5cm =0.0266cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail 2x110.5x 19.7x3.5cm= 0.0152 cum.+				
	Beatings -				
	(2x312+2x150)x(1.2)x(1.2)cm=0.001 cum.				
	Total = 0.0464 cum. +				
	Add for wastage @ 10% = 0.005 cum.= 0.0514 cum.				
	Say 51.4 cudm				
1190	Second class teak wood in planks	10 cudm	51.400	750.00	3855.00
	Wire gauge 2x160x40cm = 1.28 sqm.+				
	Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
2204	Carriage of timber	cum	0.051	121.70	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.300	435.00	565.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				5696.27
	Add Water Charges @ 1%				56.96
	TOTAL				5753.23
	Add CPOH @ 15%				862.98
	Cost of 2.16 sqm				6616.21
	Cost of 1 sqm				3063.06
	Say				3063.05

9.27.1.1.2 Kiln seasoned and chemically treated hollock wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 2.16sqm</i>				
	(i) Hollock wood.				
	Styles 4x200x9.5x3.5cm = 0.0266cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail				
	2x110.5x19.7x3.5cm = 0.0152 cum. +				
	Beadings				
	(2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum.				
	Total = 0.0464 cum.+				
	Add for wastage @ 10% = 0.005 cum.				
	Total = 0.0514 cum. Say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.400	390.00	2004.60
2204	Carriage of timber	cum	0.0514	121.70	6.26
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
9999	Chemical Treatment Wire gauge				
	2x160x40cm = 1.28 sqm.				
	+Add wastage @ 10% = 0.13 sqm.				
	Total= 1.41 sqm	L.S.	8.970	1.78	15.97
7029	Galvanised wire mesh of average width of aperture				
	1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
0595	Bright finished or black enameled mild steel butt hinges100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				3900.39
	Add Water Charges @ 1%				39.00
	TOTAL				3939.39
	Add CPOH @ 15%				590.91
	Cost of 2.16 sqm				4530.30
	Cost of 1 sqm				2097.36
	Say				2097.35

9.27.1.1.3 Kiln seasoned selected class of sheesham wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm MATERIAL: Sheesham Wood Styles 4 x 200 x 9.5x3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1 x 110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+ 2x 150) x(1.2)x(1.2) cm = 0.001 cum Total = 0.0464 cum. + Add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.400	650.00	3341.00
2204	Carriage of timber	cum	0.0514	121.70	6.26
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage@ 10 % = 0.13 sqm Total = 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				5220.82
	Add Water Charges @ 1%				52.21
	TOTAL				5273.03
	Add CPOH @ 15%				790.95
	Cost of 2.16 sqm				6063.98
	Cost of 1 sqm				2807.40
	Say				2807.40

9.27.1.2 With ISI marked stainless steel butt hinges of required size					
9.27.1.2.1 Second class teak wood					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x1.08m= 2.16sqm				
	MATERIAL:				
	Second class Teak wood				
	Styles 4x200x9.5x3.5cm = 0.0266cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail				
	2x110.5x19.7x3.5cm = 0.0152 cum.+				
	Beadings -				
	(2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum.				
	Total = 0.0464 cum.+				
	Add for wastage @ 10% = 0.005 cum.				
	Total = 0.0514 cum. Say 51.4 cudm				
1190	Second class teak wood in planks	10 cudm	51.400	750.00	3855.00
	Wire gauge 2xl60x40cm = 1.28 sqm.+				
	Add wastage @ 10% = 0.13 sqm.				
	Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
8220	Stainless steel butt hinges (heavyweight)				
	100x60x2.5 mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
2204	Carriage of timber	cum	0.0514	121.70	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				6167.67
	Add Water Charges @ 1%				61.68
	TOTAL				6229.35
	Add CPOH @ 15%				934.40
	Cost of 2.16 sqm				7163.75
	Cost of 1 sqm				3316.55
	Say				3316.55

9.27.1.2.2 Kiln seasoned and chemically treated hollock wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x1.08m= 2.16sqm				
	MATERIAL:				
	Hollock wood				
	Styles 4x200x9.5x3.5cm = 0.0266cum +				
	Top Rail - 1x1 10.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail				
	2x110.5x19.7x3.5cm = 0.0152 cum.+				
	Beadings -				
	(2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum.				
	Total = 0.0464 cum.+				
	Add for wastage @ 10% = 0.005 cum.				
	Total = 0.0514 cum. Say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.400	390.00	2004.60
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
9999	Chemical treatment	L.S.	8.970	1.78	15.97
	Wire gauge 2x160x40cm = 1.28 sqm.+				
	Add wastage				
	@ 10% = 0.13 sqm.				
	Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
2204	Carriage of timber	cum	0.051	121.70	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				4371.79
	Add Water Charges @ 1%				43.72
	TOTAL				4415.51
	Add CPOH @ 15%				662.33
	Cost of 2.16 sqm				5077.84
	Cost of 1 sqm				2350.85
	Say				2350.85

9.27.1.2.3 Kiln seasoned selected class of sheesham wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm				
	MATERIAL:				
	Sheesham wood				
	Styles 4 x 200 x 9.5 x 3.5 cm= 0.0266 cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036 cum +				
	Lock and bottom rail				
	2 x 110.5x19.7x3.5 cm =0.0152 cum.				
	Beadings -				
	(2x312+2x 150) x(1.2)x(1.2) cm = 0.001 cum				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.0464 cum. + Add for wastage @ 10% = 0.005cum. 0.0514 cum.say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.400	650.00	3341.00
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
2204	Carriage of timber	cum	0.0514	121.70	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				5692.22
	Add Water Charges @ 1%				56.92
	TOTAL				5749.14
	Add CPOH @ 15%				862.37
	Cost of 2.16 sqm				6611.51
	Cost of 1 sqm				3060.88
	Say				3060.90

9.27.2 30 mm thick shutters

9.27.2.1 With ISI marked M.S. pressed butt hinges bright finished of required size

9.27.2.1.1 Second class teak wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x1.08m = 2.16sqm				
	MATERIAL:				
	Teak wood (2nd class)				
	Styles 4x209x9.5x3cm= 0.023 cum +				
	Top Rail - 1x110.5x9.5x3cm = 0.003cum+				
	Lock and bottom rail 2x110.5x19.7x3cm = 0.013 cum+				
	Beadings -(2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum.				
	Total = 0.040cum +				
	Add for wastage @ 10% = 0.004 cum.				
	Total = 0.44cum. Say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.000	750.00	3300.00
2204	Carriage of timber	cum	0.044	121.70	5.35
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				5038.33
	Add Water Charges @ 1%				50.38
	TOTAL				5088.71
	Add CPOH @ 15%				763.31
	Cost of 2.16 sqm				5852.02
	Cost of 1 sqm				2709.27
	Say				2709.25

9.27.2 30 mm thick shutters

9.27.2.1 With ISI marked M.S. pressed butt hinges bright finished of required size

9.27.2.1.2 Kiln seasoned and chemically treated hollock wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m =</i>				
	<i>2.16 sqm</i>				
	MATERIAL:				
	Hollock wood				
	Styles 4x209x9.5x3cm = 0.023 cum +				
	Top Rail - 1x110.5x9.5x3cm = 0.003cum+				
	Lock and bottom rail				
	2x110.5x19.7x3cm = 0.013 cum+				
	Beadings -				
	(2x312+2x150)x(1.2)x(1.2)cm=0.001 cum.				
	Total = 0.040 cum+				
	Add for wastage @ 10% = 0.004 cum.				
	Total = 0.44 cum. Say 44 cudm				
2505	Hollock wood in planks	10 cudm	44.000	390.00	1716.00
2204	Carriage of timber	cum	0.044	121.70	5.35
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
9999	Chemical treatment	L.S.	9.100	1.78	16.20
	Wire gauge 2x160x40cm = 1.28 sqm.+				
	Add wastage @ 10% = 0.13 sqm.				
	Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				3503.53
	Add Water Charges @ 1%				35.04
	TOTAL				3538.57
	Add CPOH @ 15%				530.79
	Cost of 2.16 sqm				4069.36
	Cost of 1 sqm				1883.96
	Say				1883.95

9.27.2.1.3 Kiln seasoned selected class of sheesham wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Sheesham wood				
	Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3 cm = 0.013 um.+				
	Beadings -				
	(2x312+2x 150) x(1.2)x(1.2) cm =0.001cum				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004cum.				
	= 0.44 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.000	650.00	2860.00
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
2204	Carriage of timber	cum	0.044	121.70	5.35
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				4631.33
	Add Water Charges @ 1%				46.31
	TOTAL				4677.64
	Add CPOH @ 15%				701.65
	Cost of 2.16 sqm				5379.29
	Cost of 1 sqm				2490.41
	Say				2490.40

9.27.2.2 With ISI marked stainless steel butt hinges of required size

9.27.2.2.1 Second class teak wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x 1.08m=2.16sqm</i>				
	MATERIAL:				
	Teak wood (2nd class)				
	Styles 4x209x9.5x3cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3cm = 0.003cum+				
	Lock and bottom rail 2x110.5x9.7x3cm = 0.013 cum +				
	Beadings - (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum.				
	Total = 0.040cum+				
	Add for wastage @ 10% = 0.004 cum.				
	Total = 0.044 cum. Say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.000	750.00	3300.00
2204	Carriage of timber	cum	0.044	121.70	5.35
	Wire gauge 2x160x40cm = 1.28 sqm.+				
	Add wastage @ 10% = 0.13 sqm.				
	Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				5509.73
	Add Water Charges @ 1%				55.10
	TOTAL				5564.83
	Add CPOH @ 15%				834.72
	Cost of 2.16 sqm				6399.55
	Cost of 1 sqm				2962.75
	Say				2962.75

9.27.2.2.2 Kiln seasoned and chemically treated hollock wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for door shutters 2.00x 1.08m=2.16sqm MATERIAL: Hollock wood Styles 4x209x9.5x3cm = 0.023 cum + Top Rail - 1x110.5x9.5x3cm = 0.003cum+ Lock and bottom rail 2x110.5x19.7x3cm = 0.013 cum+ Beadings - (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.040 cum+ Add for wastage @ 10% = 0.004 cum. Total= 0.044 cum. Say 44 cudm				
2505	Hollock wood in planks	10 cudm	44.000	390.00	1716.00
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
9999	Chemical treatment	L.S.	8.970	1.78	15.97
2204	Carriage of timber	cum	0.044	121.70	5.35
	Wire gauge 2x160x40cm = 1.28 sqm. Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				3974.70
	Add Water Charges @ 1%				39.75
	TOTAL				4014.45
	Add CPOH @ 15%				602.17
	Cost of 2.16 sqm				4616.62
	Cost of 1 sqm				2137.32
	Say				2137.30

9.27.2.2.3 Kiln seasoned selected class of sheesham wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Sheesham wood				
	Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3 cm = 0.013 cum.+				
	Beadings -				
	(2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004 cum.				
	= 0.044 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.000	650.00	2860.00
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
2204	Carriage of timber	cum	0.044	121.70	5.35
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.410	260.00	366.60
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				5102.73
	Add Water Charges @ 1%				51.03
	TOTAL				5153.76
	Add CPOH @ 15%				773.06
	Cost of 2.16 sqm				5926.82
	Cost of 1 sqm				2743.90
	Say				2743.90

9.31 Providing and fixing wire gauge laminated veneer lumber shutters conforming to IS : 14616, and as per TADS 15 :2001 (Part B) using galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm as per IS :1568 for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, as per directions of Engineer-in-charge:

9.31.1 35 mm thick shutters

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i>				
	MATERIAL:				
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	2.380	1700.00	4046.00
9999	Carriage of door	L.S.	29.640	1.78	52.76
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.520	417.00	216.84
0114	Beldar	day	0.600	329.00	197.40
9999	Sundries	L.S.	35.880	1.78	63.87
	TOTAL				4669.39
	Add Water Charges @ 1%				46.69
	TOTAL				4716.08
	Add CPOH @ 15%				707.41
	Cost of 2.38 sqm				5423.49
	Cost of 1 sqm				2278.78
	Say				2278.80

9.31.2 30 mm thick shutters

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i>				
	MATERIAL:				
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	2.380	1500.00	3570.00
9999	Carriage of shutters	L.S.	29.640	1.78	52.76
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0156	Carpenter (average)	day	0.520	417.00	216.84
0114	Beldar	day	0.600	329.00	197.40
9999	Sundries	L.S.	35.880	1.78	63.87
	TOTAL				4193.39
	Add Water Charges @ 1%				41.93
	TOTAL				4235.32
	Add CPOH @ 15%				635.30
	Cost of 2.38 sqm				4870.62
	Cost of 1 sqm				2046.48
	Say				2046.50

9.32 Providing 50x50x50 mm 2nd class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand) and making good the walls etc.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100nos</i>				
	MATERIAL:				
	Teak wood (2nd class) 100x(50x50x50)mm=				
	0.0125cum				
	Add wastage @ 10% = 0.0013 cum.				
	Total =0.0138 cum. Say 14 cudm				
1189	Second class teak wood in scantling	10 cudm	14.000	660.00	924.00
2204	Carriage of timber	cum	0.014	121.70	1.70
	Cement mortar 1:3(1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.002	4468.35	8.94
	LABOUR:				
0112	Carpenter 2nd class	day	0.750	399.00	299.25
0124	Mason (brick layer) 2nd class	day	0.750	399.00	299.25
0114	Beldar	day	0.750	329.00	246.75
	TOTAL				1779.89
	Add Water Charges @ 1%				17.80
	TOTAL				1797.69
	Add CPOH @ 15%				269.65
	Cost of 100 nos				2067.34
	Cost of each				20.67
	Say				20.65

9.33 Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work / C.C / R.C.C. and making good etc. complete.

9.33.1 25 mm long

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7312	Expandable fastener with plastic sleeve and M.S. screws :				
	25 mm long	each	10.000	10.00	100.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour for drilling holes and making good etc.	L.S.	20.800	1.78	37.02
	TOTAL				137.02
	Add Water Charges @ 1%				1.37
	TOTAL				138.39
	Add CPOH @ 15%				20.76
	Cost of 10 nos				159.15
	Cost of each				15.92
	Say				15.90

9.33.2 32 mm long

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7313	Expandable fastener with plastic sleeve and M.S. screws : 32 mm long	each	10.000	11.00	110.00
9999	Labour for drilling holes and making good etc.	L.S.	26.000	1.78	46.28
	TOTAL				156.28
	Add Water Charges @ 1%				1.56
	TOTAL				157.84
	Add CPOH @ 15%				23.68
	Cost of 10 nos				181.52
	Cost of each				18.15
	Say				18.15

9.33.3 40 mm long

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7314	Expandable fastener with plastic sleeve and M.S. screws : 40 mm long	each	10.000	14.00	140.00
9999	Labour for drilling holes and making good etc.	L.S.	26.000	1.78	46.28
	TOTAL				186.28
	Add Water Charges @ 1%				1.86
	TOTAL				188.14
	Add CPOH @ 15%				28.22
	Cost of 10 nos				216.36
	Cost of each				21.64
	Say				21.65

9.33 Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work / C.C / R.C.C. and making good etc. complete.

9.33.4 50 mm long

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 nos.				
	MATERIAL:				
7315	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	10.000	15.00	150.00
9999	Labour for drilling holes and making good etc.	L.S.	26.000	1.78	46.28

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				196.28
	Add Water Charges @ 1%				1.96
	TOTAL				198.24
	Add CPOH @ 15%				29.74
	Cost of 10 nos				227.98
	Cost of each				22.80
	Say				22.80
9.34	Providing and fixing 2nd class teak wood plain lining tongued and grooved, including wooden plugs complete with necessary screws and priming coat on unexposed surface.				
9.34.1	40 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Teak wood (2nd class) 10x0.04m=0.40 cum				
	Add wastage @ 10% = 0.04 cum.				
	Total = 0.44 cum. Say 440 cudm				
1190	Second class teak wood in planks	10 cudm	440.000	750.00	33000.00
1231	Extra for selected planks of second class teakwood	10 cudm	440.000	150.00	6600.00
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.000	20.65	1135.75 A
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.000	32.95	329.50 A
2204	Carriage of timber	cum	0.440	121.70	53.55
	LABOUR:				
	For planning and fixing				
0111	Carpenter 1 st class	day	2.150	435.00	935.25
0114	Beldar	day	1.620	329.00	532.98
9999	Sundries & screws etc.	L.S.	53.820	1.78	95.80
	TOTAL				42682.83
	Add Water Charges @ 1% except on A i.e on (42,682.83 - 1,465.25 =) 41,217.58				412.18
	TOTAL				43095.01
	Add CPOH @ 15% except on A i.e on (43,095.01 - 1,465.25 =) 41,629.76				6244.46
	Cost of 10 sqm				49339.47
	Cost of 1 sqm				4933.95
	Say				4933.95

9.34.2 25 mm thick					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Teak wood 2nd class 10x0.025 = 0.25cum+				
	Add wastage @ 10% = 0.025 cum.				
	Total = 0.275 cum.				
	Say 275 cudm				
1190	Second class teak wood in planks	10 cudm	275.000	750.00	20625.00
1231	Extra for selected planks of second class teakwood	10 cudm	275.000	150.00	4125.00
2204	Carriage of timber	cum	0.275	121.70	33.47
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.000	20.65	1135.75 A
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.000	32.95	329.50 A
	LABOUR:				
0111	Carpenter 1 st class	day	2.150	435.00	935.25
0114	Beldar	day	1.620	329.00	532.98
9999	Sundries & screws etc.	L.S.	53.820	1.78	95.80
	TOTAL				27812.75
	Add Water Charges @ 1% except on A i.e on (27,812.75 - 1,465.25 =) 26,347.50				263.48
	TOTAL				28076.23
	Add CPOH @ 15% except on A i.e on (28,076.23 - 1,465.25 =) 26,610.98				3991.65
	Cost of 10 sqm				32067.88
	Cost of 1 sqm				3206.79
	Say				3206.80
9.34.3 20 mm thick					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Teak wood (2nd class) 10x0.02m = 0.20 cum				
	Add wastage @ 10% = 0.02 cum.				
	Total = 0.22 cum. Say 220 cudm				
1190	Second class teak wood in planks	10 cudm	220.000	750.00	16500.00
1231	Extra for selected planks of second class teakwood	10 cudm	220.000	150.00	3300.00
2204	Carriage of timber	cum	0.220	121.70	26.77
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.000	20.65	1135.75 A
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.000	32.95	329.50 A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	1.080	435.00	469.80
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.080	329.00	355.32
9999	Sundries & screws etc.	L.S.	53.820	1.78	95.80
	TOTAL				22532.14
	Add Water Charges @ 1% except on A i.e on (22,532.14 - 1,465.25 =) 21,066.89				210.67
	TOTAL				22742.81
	Add CPOH @ 15% except on A i.e on (22,742.81 - 1,465.25 =) 21,277.56				3191.63
	Cost of 10 sqm				25934.44
	Cost of 1 sqm				2593.44
	Say				2593.45

9.34.4 12 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	Wood:				
	Second class teak wood 10x0.012 = 0.12 cum				
	Add wastage @ 10% = 0.012 cum				
	Total = 0.132 cum. Say 132 cudm				
1190	Second class teak wood in planks	10 cudm	132.000	750.00	9900.00
1231	Extra for selected planks of second class teakwood	10 cudm	132.000	150.00	1980.00
2204	Carriage of timber	cum	0.132	121.70	16.06
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.000	20.65	1135.75 A
	LABOUR:				
0111	Carpenter 1 st class	day	1.080	435.00	469.80
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.080	329.00	355.32
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.000	32.95	329.50 A
9999	Sundries & screws etc.	L.S.	53.820	1.78	95.80
	TOTAL				14601.43
	Add Water Charges @ 1% except on A i.e on (14,601.43 - 1,465.25 =) 13,136.18				131.36
	TOTAL				14732.79
	Add CPOH @ 15% except on A i.e on (14,732.79 - 1,465.25 =) 13,267.54				1990.13
	Cost of 10 sqm				16722.92
	Cost of 1 sqm				1672.29
	Say				1672.30

9.35 Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS : 12823 marked, including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete :

9.35.1 12 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Particle board (three layer medium density)				
	12mm thick = 10 sqm.+				
	Add wastage @ 10% = 1 sqm.				
	Total = 11 sqm				
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	11.000	750.00	8250.00
9999	Carriage of particle board	L.S.	13.520	1.78	24.07
9999	Sundries & screws etc.	L.S.	26.910	1.78	47.90
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.000	32.95	329.50 A
	LABOUR:				
0112	Carpenter 2nd class	day	1.280	399.00	510.72
0114	Beldar	day	1.430	329.00	470.47
7048	Rawl plug 50 mm (designation 10 nos)	each	55.000	10.00	550.00
	TOTAL				10182.66
	Add Water Charges @ 1% except on A i.e on (10,182.66 - 329.50 =) 9,853.16				98.53
	TOTAL				10281.19
	Add CPOH @ 15% except on A i.e on (10,281.19 - 329.50 =) 9,951.69				1492.75
	Cost of 10 sqm				11773.94
	Cost of 1 sqm				1177.39
	Say				1177.40

9.35.2 18 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm.				
	MATERIAL:				
	Particle board (three layer medium density)				
	18 mm thick = 10 sqm.+				
	Add wastage @ 10% = 1 sqm.				
	Total = 11 sqm				
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	11.000	860.00	9460.00
9999	Carriage of particle board	L.S.	13.520	1.78	24.07
9999	Sundries & screws etc.	L.S.	26.910	1.78	47.90
	Priming coat				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing LABOUR:	sqm	10.000	32.95	329.50 A
0112	Carpenter 2nd class	day	1.280	399.00	510.72
0114	Beldar	day	1.430	329.00	470.47
7048	Rawl plug 50 mm (designation 10 nos)	each	55.000	10.00	550.00
	TOTAL				11392.66
	Add Water Charges @ 1% except on A i.e on (11,392.66 - 329.50 =) 11,063.16				110.63
	TOTAL				11503.29
	Add CPOH @ 15% except on A i.e on (11,503.29 - 329.50 =) 11,173.79				1676.07
	Cost of 10 sqm				13179.36
	Cost of 1 sqm				1317.94
	Say				1317.95

9.35.3 25 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Particle board (three layer medium density)				
	25 mm thick = 10 sqm.+				
	Add wastage @ 10% = 1 sqm.				
	Total = 11 sqm				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	11.000	930.00	10230.00
9999	Carriage of particle board	L.S.	13.520	1.78	24.07
9999	Sundries & screws etc.	L.S.	26.910	1.78	47.90
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing LABOUR:	sqm	10.000	32.95	329.50 A
0112	Carpenter 2nd class	day	1.280	399.00	510.72
0114	Beldar	day	1.430	329.00	470.47
7048	Rawl plug 50 mm (designation 10 nos)	each	55.000	10.00	550.00
	TOTAL				12162.66
	Add Water Charges @ 1% except on A i.e on (12,162.66 - 329.50 =) 11,833.16				118.33
	TOTAL				12280.99
	Add CPOH @ 15% except on A i.e on (12,280.99 - 329.50 =) 11,951.49				1792.72
	Cost of 10 sqm				14073.71
	Cost of 1 sqm				1407.37
	Say				1407.35

9.36	Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.				
9.36.1	Kiln seasoned and chemically treated hollock wood				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 no. battens of size 500cmx50mmx 25mm (31.25 cum)</i>				
	MATERIAL:				
	Hollock wood -				
	5x5.00x0.50x0.025 = 0.03125 cum				
	Add wastage @ 5% = 0.00156 cum				
	Total = 0.03281 cum.				
	Say 33 cum				
2505	Hollock wood in planks	10 cum	33.000	390.00	1287.00
2204	Carriage of timber	cum	0.033	121.70	4.02
	LABOUR:				
0111	Carpenter 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	6.760	1.78	12.03
	Painting with ready mixed priming coat on ground 5x500x15 cm =3.75 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	3.750	32.95	123.56 A
7048	Rawl plug 50 mm (designation 10 nos)	each	55.000	10.00	550.00
9999	Labour for drilling holes steel tape sundries	L.S.	71.500	1.78	127.27
	TOTAL				2621.13
	Add Water Charges @ 1% except on A i.e on (2,621.13 - 123.56 =) 2,497.57				
	TOTAL				2646.11
	Add CPOH @ 15% except on A i.e on (2,646.11 - 123.56 =) 2,522.55				
	Cost of 0.03125 cum				3024.49
	Cost of 1 cum				96783.68
	Say				96783.70
9.37	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :				
9.37.1	Decorative veneer facings of approved manufacture				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Teak ply wood = 10sqm. +				
	Add for wastage @ 20% = 2 sqm.				
	Total = 12 sqm				
0759	Decorative plywood 4 mm	sqm	12.000	430.00	5160.00
9999	Carriage of ply wood	L.S.	5.460	1.78	9.72
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.000	20.65	1135.75 A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	3.800	435.00	1653.00
0114	Beldar	day	4.600	329.00	1513.40
0130	Mistry	day	0.600	435.00	261.00
9999	20mm nails without head for fixing ply	L.S.	53.820	1.78	95.80
	Painting with ready mixed priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.000	32.95	329.50 A
	TOTAL				10158.17
	Add Water Charges @ 1% except on A i.e on (10,158.17 - 1,465.25 =) 8,692.92				86.93
	TOTAL				10245.10
	Add CPOH @ 15% except on A i.e on (10,245.10 - 1,465.25 =) 8,779.85				1316.98
	Cost of 10 sqm				11562.08
	Cost of 1 sqm				1156.21
	Say				1156.20

9.38 Providing and fixing 4 mm thick coir veneer board, ISI marked IS : 14842, plain lining with necessary screws, priming coat on unexposed surface etc., complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Coir veneered board 4mm thick = 10sqm.+ Add for wastage @ 20% = 2 sqm. Total = 12 sqm				
7552	Coir veneered board 4 mm thick	sqm	12.000	300.00	3600.00
9999	Carriage of coir veneered board	L.S.	5.460	1.78	9.72
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.000	20.65	1135.75 A
	LABOUR:				
0111	Carpenter 1 st class	day	3.800	435.00	1653.00
0114	Beldar	day	4.600	329.00	1513.40
0130	Mistry	day	0.600	435.00	261.00
9999	20mm nails without head for fixing ply	L.S.	53.820	1.78	95.80
	Priming coatPainting with ready mixed priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.000	32.95	329.50 A
	TOTAL				8598.17
	Add Water Charges @ 1% except on A i.e on (8,598.17 - 1,465.25 =) 7,132.92				71.33
	TOTAL				8669.50
	Add CPOH @ 15% except on A i.e on (8,669.50 - 1,465.25 =) 7,204.25				1080.64
	Cost of 10 sqm				9750.14
	Cost of 1 sqm				975.01
	Say				975.00

9.39	Providing and fixing skirting with Pre-laminated (one side decorative and other side balancing lamination) flat pressed 3 layer or graded particle board (medium density) Grade I, Type II, IS :12823 marked, with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete :				
9.39.1	18 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for skirting 200mm wide and 30m long Area = 0.2x30= 6 sqm</i>				
	MATERIAL:				
	Teak shade prelaminated Particle board (three layer medium density) = 6.0 sqm.+				
	Add wastage @ 10% =0.6sqm.				
	Total = 6.6 sqm				
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	6.600	860.00	5676.00
9999	Carriage of particle board	L.S.	8.110	1.78	14.44
7048	Rawl plug 50 mm (designation 10 nos)	each	102.000	10.00	1020.00
9999	Labour for drilling holes	L.S.	130.000	1.78	231.40
	LABOUR:				
0112	Carpenter 2nd class	day	0.770	399.00	307.23
0114	Beldar	day	0.860	329.00	282.94
9999	Sundries (Screws, sand paper)	L.S.	53.820	1.78	95.80
	Priming coatPainting with ready mixed priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	6.000	32.95	197.70 A
	TOTAL				7825.51
	Add Water Charges @ 1% except on A i.e on (7,825.51 - 197.70 =) 7,627.81				
					76.28
	TOTAL				7901.79
	Add CPOH @ 15% except on A i.e on (7,901.79 - 197.70 =) 7,704.09				
					1155.61
	Cost of 6 sqm				
					9057.40
	Cost of 1 sqm				
					1509.57
	Say				
					1509.55
9.39.2	25 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for skirting 200mm wide and 30m long Area = 0.2x30= 6 sqm</i>				
	MATERIAL:				
	Teak shade pre-laminated Particle board (three layer medium density) = 6.0 sqm.+				
	Add wastage @ 10% =0.6sqm.				
	Total = 6.6 sqm				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	6.600	930.00	6138.00
9999	Carriage of particle board	L.S.	8.110	1.78	14.44
7048	Rawl plug 50 mm (designation 10 nos)	each	102.000	10.00	1020.00
9999	Labour for drilling holes	L.S.	130.000	1.78	231.40
	LABOUR:				
0112	For dressing and fixing particle board to skirting Carpenter 2nd class	day	0.770	399.00	307.23

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.860	329.00	282.94
9999	Sundries (Screws, sand paper)	L.S.	53.820	1.78	95.80
	Painting with ready mixed priming coat at back				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	6.000	32.95	197.70 A
	TOTAL				8287.51
	Add Water Charges @ 1% except on A i.e on (8,287.51 - 197.70 =) 8,089.81				80.90
	TOTAL				8368.41
	Add CPOH @ 15% except on A i.e on (8,368.41 - 197.70 =) 8,170.71				1225.61
	Cost of 6 sqm				9594.02
	Cost of 1 sqm				1599.00
	Say				1599.00

9.40 Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete:

9.40.1 2nd class teak wood

9.40.1.1 50x12 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for beading for a window of size 140 x 110cm i.e. 500cm long (5 metre)</i>				
	MATERIAL:				
	Teak wood IInd class in planks				
	500x5x1.2cm = 0.003cum+				
	Add for wastage @ 10% = 0.0003 cum.				
	Total = 0.0033 cum. Say 3.3 cudm				
1190	Second class teak wood in planks	10 cudm	3.300	750.00	247.50
2204	Carriage of timber	cum	0.0033	121.70	0.40
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	36.000	52.00	18.72
	Painting with priming coat				
	Area = 500(5+1.2+1.2) = 0.37 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.370	32.95	12.19 A
	LABOUR:				
	For planing, fixing and making design				
0111	Carpenter 1 st class	day	0.530	435.00	230.55
	TOTAL				509.36
	Add Water Charges @ 1% except on A i.e on (509.36 - 12.19 =) 497.17				4.97
	TOTAL				514.33
	Add CPOH @ 15% except on A i.e on (514.33 - 12.19 =) 502.14				75.32
	Cost of 5 metre				589.65
	Cost of 1 metre				117.93
	Say				117.95

9.40.1.2 50 x 20 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for beading for a window of size 140 x 110cm i.e. 500cm long (5 metre)</i> MATERIAL: Teak wood IInd class in planks 500x5x 2.0cm=0.005cum Add for wastage @ 10% = 0.0005cum Total=0.0055cum. Say 5.5 cudm				
1190	Second class teak wood in planks	10 cudm	5.500	750.00	412.50
2204	Carriage of timber	cum	0.0055	121.70	0.67
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	36.000	52.00	18.72
	Painting with priming coat				
	Area = 500(5+2+2) = 0.45 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.450	32.95	14.83 A
	LABOUR:				
	For planing, fixing and making design				
0111	Carpenter 1 st class	day	0.530	435.00	230.55
	TOTAL				677.27
	Add Water Charges @ 1% except on A i.e on (677.27 - 14.83 =) 662.44				6.62
	TOTAL				683.89
	Add CPOH @ 15% except on A i.e on (683.89 - 14.83 =) 669.06				100.36
	Cost of 5 metre				784.25
	Cost of 1 metre				156.85
	Say				156.85
9.40.2 Kiln seasoned and chemically treated hollock wood					
9.40.2.1 50x12 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre)</i> MATERIAL: Hollock wood 500x5x1.2cm = 0.003 cum+ Add for wastage @ 10% = 0.0003 cum. Total = 0.0033 cum. Say 3.3 cudm				
2505	Hollock wood in planks	10 cudm	3.300	390.00	128.70
2204	Carriage of timber	cum	0.0033	121.70	0.40
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	36.000	52.00	18.72
	Painting with priming coat				
	Area = 500(5+1.2+1.2) = 0.37 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.370	32.95	12.19 A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
	For planing, fixing and making design				
0111	Carpenter 1 st class	day	0.530	435.00	230.55
	TOTAL				390.56
	Add Water Charges @ 1% except on A i.e on (390.56 - 12.19 =) 378.37				3.78
	TOTAL				394.34
	Add CPOH @ 15% except on A i.e on (394.34 - 12.19 =) 382.15				57.32
	Cost of 5 metre				451.66
	Cost of 1 metre				90.33
	Say				90.35
9.40	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete:				
9.40.2	Kiln seasoned and chemically treated hollock wood				
9.40.2.2	50x20 mm				
	<i>Details of cost for beading for a window of size 140 x 110cm i.e. 500cm long (5 metre)</i>				
	MATERIAL:				
	Hollock wood 500x5x200cm = 0.005 cum+				
	Add for wastage @ 10% = 0.0005 cum.				
	Total = 0.0055 cum. Say 5.5 cudm				
2505	Hollock wood in planks	10 cudm	5.500	390.00	214.50
2204	Carriage of timber	cum	0.006	121.70	0.67
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	36.000	52.00	18.72
	Painting with priming coat Area = 500(5+2+2) = 0.45 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.450	32.95	14.83 A
	LABOUR:				
	For planing, fixing and making design				
0111	Carpenter 1 st class	day	0.530	435.00	230.55
	TOTAL				479.27
	Add Water Charges @ 1% except on A i.e on (479.27 - 14.83 =) 464.44				4.64
	TOTAL				483.91
	Add CPOH @ 15% except on A i.e on (483.91 - 14.83 =) 469.08				70.36
	Cost of 5 metre				554.27
	Cost of 1 metre				110.85
	Say				110.85

9.41 Providing and fixing plain jaffri of 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with :

9.41.1 Second class teak wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a jaffri 200x110cm = 2.2sqm</i>				
	MATERIAL:				
	Teakwood IInd class Jaffri				
	210x120x1.0cm = 0.025cum +				
	Beading 660x5x1.2cm = 0.004cum				
	Total = 0.029 cum+				
	Add wastage @ 10% = 0.003 cum				
	Total = 0.032 cum. Say 32 cudm				
1190	Second class teak wood in planks	10 cudm	32.000	750.00	2400.00
2204	Carriage of timber	cum	0.032	121.70	3.89
	LABOUR:				
0111	Carpenter 1 st class	day	0.750	435.00	326.25
0112	Carpenter 2nd class	day	1.000	399.00	399.00
0114	Beldar	day	0.500	329.00	164.50
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				3397.30
	Add Water Charges @ 1%				33.97
	TOTAL				3431.27
	Add CPOH @ 15%				514.69
	Cost of 2.2 sqm				3945.96
	Cost of 1 sqm				1793.62
	Say				1793.60

9.42 Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS : 3087 marked, including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plated M.S. pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a pelmet 2m long.</i>				
	MATERIAL:				
	(i) 18mm thick particle board (medium density exterior grade)Front-1x1.7x0.15=0.255sqm +				
	Sides-2x0. 15x0.15= 0.045sqm				
	Total = 0.300sqm +				
	Add wastage @ 5% =0.015sqm				
	Total = 0.315sqm. Say 0.32 sqm.				
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	0.320	440.00	140.80
	6mm thick commercial ply wood				
	Top-1x1.7x0.15=0.255sqm+				
	Add wastage @ 5% = 0.013 sqm.= 0.268 sqm.				
	Say 0.27 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	0.270	450.00	121.50
7034	Nickel plated M.S. pipe 20 mm dia	metre	1.650	80.00	132.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	2.000	8.00	16.00
9999	Carriage of material	L.S.	0.520	1.78	0.93
9999	M.S. flat 25 x 3 mm and 10cm long over brackets	L.S.	8.060	1.78	14.35
2505	Hollock wood in planks	10 cu dm	0.320	390.00	12.48
7048	Rawl plug 50 mm (designation 10 nos)	each	2.000	10.00	20.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.180	399.00	71.82
0114	Beldar	day	0.180	329.00	59.22
0130	Mistry	day	0.110	435.00	47.85
9999	Sundries	L.S.	2.730	1.78	4.86
	TOTAL				641.81
	Add Water Charges @ 1%				6.42
	TOTAL				648.23
	Add CPOH @ 15%				97.23
	Cost of 2 metre				745.46
	Cost of 1 metre				372.73
	Say				372.75

9.43 Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842, including top cover of 6 mm coir veneer board, nickle plated M.S. Pipe 20 mm dia. (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. Flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a pelmet 2m long.</i>				
	MATERIAL:				
	(i) 18mm thick Coir veneered board				
	Front-1 x 1.7x 0.15=0.255sqm +				
	Sides-2x0.15x0.15= 0.045sqm				
	Total = 0.300sqm +				
	Add wastage @5% = 0.015sqm				
	Total = 0.315sqm. Say 0.32 sqm				
7556	Coir veneered board 18 mm thick	sqm	0.320	1050.00	336.00
	6mm thick commercial ply wood				
	Top-1x1.7x0.15=0.255sqm+				
	Add wastage @ 5% = 0.013 sqm				
	Total = 0.268 sqm.				
	Say 0.27 sqm				
7553	Coir veneered board 6 mm thick	sqm	0.270	400.00	108.00
7034	Nickel plated M.S. pipe 20 mm dia	metre	1.650	80.00	132.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	2.000	8.00	16.00
9999	Carriage of material	L.S.	0.520	1.78	0.93
9999	M.S. flat 25 x 3 mm and 10cm long over brackets	L.S.	8.060	1.78	14.35
2505	Hollock wood in planks	10 cu dm	0.320	390.00	12.48

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7048	Rawl plug 50 mm (designation 10 nos)	each	2.000	10.00	20.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.180	399.00	71.82
0114	Beldar	day	0.180	329.00	59.22
0130	Mistry	day	0.110	435.00	47.85
9999	Sundries	L.S.	2.730	1.78	4.86
	TOTAL				823.51
	Add Water Charges @ 1%				8.24
	TOTAL				831.75
	Add CPOH @ 15%				124.76
	Cost of 2 metre				956.51
	Cost of 1 metre				478.26
	Say				478.25

9.44 Extra for using veneered particle board conforming to IS: 3097 Grade I, in item of pelmet 18 mm thick 150 mm wide.

9.44.1 Non decorative veneer on both sides

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a pelmet 2m long.</i>				
	MATERIAL:				
	(i) 18mm thick particle board (medium density exterior grade)				
	Front-1xl.7x0.15= 0.255sqm.+				
	Sides-2x0.15x0.15 = 0.045sqm.				
	Total = 0.300sqm.+				
	Add wastage @5% =0.015sqm.				
	Total = 0.315sqm. Say 0.32 sqm				
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	0.320	180.00	57.60
	TOTAL				57.60
	Add Water Charges @ 1%				0.58
	TOTAL				58.18
	Add CPOH @ 15%				8.73
	Cost of 2 metre				66.91
	Cost of 1 metre				33.46
	Say				33.45

9.44.2 Particle board with decorative veneering on both sides

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a pelmet 2m long.</i>				
	MATERIAL:				
	(i) 18mm thick particle board (medium density exterior grade)				
	Front-1xl.7x0.15= 0.255sqm.+				
	Sides-2x0.15x0.15 = 0.045sqm.				
	Total = 0.300sqm.+				
	Add wastage @5% = 0.015sqm.				
	Total = 0.315sqm. Say 0.32 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0348	Extra for veneered particle board with Teak veneering both sides	sqm	0.320	500.00	160.00
	TOTAL				160.00
	Add Water Charges @ 1%				1.60
	TOTAL				161.60
	Add CPOH @ 15%				24.24
	Cost of 2 metre				185.84
	Cost of 1 metre				92.92
	Say				92.90

9.45 Providing and fixing teak wood lipping of size 25x3 mm in pelmet.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metre.</i>				
	MATERIAL:				
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	10.000	24.00	240.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.250	399.00	99.75
0114	Beldar	day	0.250	329.00	82.25
	TOTAL				422.00
	Add Water Charges @ 1%				4.22
	TOTAL				426.22
	Add CPOH @ 15%				63.93
	Cost of 10 metre				490.15
	Cost of 1 metre				49.02
	Say				49.00

9.46 Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete:

9.46.1 12 mm dia

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long.</i>				
	MATERIAL:				
0590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	2.000	200.00	400.00
7023	Chromium plated brackets (curtain rods)	each	2.000	7.00	14.00
9999	C.P.brass screws	L.S.	4.030	1.78	7.17
9999	Carriage	L.S.	1.560	1.78	2.78
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	2.000	20.65	41.30A
9999	Labour	L.S.	2.730	1.78	4.86
9999	Sundries	L.S.	1.560	1.78	2.78
	TOTAL				472.89
	Add Water Charges @ 1% except on A i.e on (472.89 - 41.30 =) 431.59				4.32
	TOTAL				477.21
	Add CPOH @ 15% except on A i.e on (477.21 - 41.30 =) 435.91				65.39
	Cost of 2 metre				542.60
	Cost of 1 metre				271.30
	Say				271.30

9.46.2 20 mm dia					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long.</i>				
	MATERIAL:				
0591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	2.000	260.00	520.00
7023	Chromium plated brackets (curtain rods)	each	2.000	7.00	14.00
9999	C.P.brass screws	L.S.	4.030	1.78	7.17
9999	Carriage	L.S.	1.560	1.78	2.78
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	2.000	20.65	41.30A
9999	Labour	L.S.	2.730	1.78	4.86
9999	Sundries	L.S.	1.560	1.78	2.78
	TOTAL				592.89
	Add Water Charges @ 1% except on A i.e on (592.89 - 41.30 =) 551.59				5.52
	TOTAL				598.41
	Add CPOH @ 15% except on A i.e on (598.41 - 41.30 =) 557.11				83.57
	Cost of 2 metre				681.98
	Cost of 1 metre				340.99
	Say				341.00
9.46.3 25 mm dia					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long.</i>				
	MATERIAL:				
0592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	2.000	370.00	740.00
7023	Chromium plated brackets (curtain rods)	each	2.000	7.00	14.00
9999	C.P. brass screws	L.S.	4.030	1.78	7.17
9999	Carriage	L.S.	1.560	1.78	2.78
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	2.000	20.65	41.30A
9999	Labour	L.S.	2.730	1.78	4.86
9999	Sundries	L.S.	1.560	1.78	2.78
	TOTAL				812.89
	Add Water Charges @ 1% except on A i.e on (812.89 - 41.30 =) 771.59				7.72
	TOTAL				820.61
	Add CPOH @ 15% except on A i.e on (820.61 - 41.30 =) 779.31				116.90
	Cost of 2 metre				937.51
	Cost of 1 metre				468.76
	Say				468.75

9.47 Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets:**9.47.1 20 mm dia (heavy type)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long.</i>				
	MATERIAL:				
7034	Nickel plated M.S. pipe 20 mm dia	metre	2.000	80.00	160.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	2.000	8.00	16.00
9999	Screws	L.S.	4.030	1.78	7.17
9999	Carriage	L.S.	1.560	1.78	2.78
7048	Rawl plug 50 mm (designation 10 nos)	each	2.000	10.00	20.00
9999	Rawl plug 50 mm (designation 10 no.)	L.S.	5.200	1.78	9.26
9999	Sundries	L.S.	1.560	1.78	2.78
	TOTAL				217.99
	Add Water Charges @ 1%				2.18
	TOTAL				220.17
	Add CPOH @ 15%				33.03
	Cost of 2 metre				253.20
	Cost of 1 metre				126.60
	Say				126.60

9.47.2 25 mm dia (heavy type)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long.</i>				
	MATERIAL:				
7033	Nickel plated M.S. pipe 25 mm dia	metre	2.000	90.00	180.00
7036	Nickel plated M.S. - Brackets for curtain rod 25 mm	each	2.000	8.00	16.00
9999	Screws	L.S.	4.030	1.78	7.17
9999	Carriage	L.S.	1.560	1.78	2.78
7048	Rawl plug 50 mm (designation 10 nos)	each	2.000	10.00	20.00
9999	Labour including fixing rawl plug	L.S.	5.200	1.78	9.26
9999	Sundries	L.S.	1.560	1.78	2.78
	TOTAL				237.99
	Add Water Charges @ 1%				2.38
	TOTAL				240.37
	Add CPOH @ 15%				36.06
	Cost of 2 metre				276.43
	Cost of 1 metre				138.22
	Say				138.20

9.48 Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.**9.48.1 Fixed to steel windows by welding**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a grill 90x120cm = 1.08sqm.</i>				
	MATERIAL:				
	M.S. bar 16mm diameter- 11x86cm = 9.46m.				
	@ 1.58kg/ m= 14.95kg+				
	Add wastage @ 10% = 1.50kg.				
	Total = 16.45kg. Say 0.165 quintal				
1003	Mild steel round bar above 12 mm dia	quintal	0.165	4400.00	726.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	M.S. flat 25x3.15mm 2x120cm = 2.40m+2x90cm= 1.80m + 1x120cm= 1.20m+ 2x15cm = 0.30m Total =5.70m 5.70m @ 0.63kg/m = 3.59kg Add wastage @ 10% = 0.36kg. Total = 3.95kg. Say 4 kg. or 0.04 quintal				
1008	Flats up to 10 mm in thickness	quintal	0.040	4200.00	168.00
2205	Carriage of steel	tonne	0.020	94.65	1.89
	0.165 + 0.04 = 0.205 q = 0.0205 t Say 0.02 tonne				
9999	Sundries	L.S.	26.910	1.78	47.90
9999	Welding charges	L.S.	19.760	1.78	35.17
	Priming coat:Area=1x0.9x1.2x1=1.08 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing LABOUR:	sqm	1.080	27.00	29.16 A
0102	Blacksmith 1 st class	day	0.860	435.00	374.10
0114	Beldar	day	1.100	329.00	361.90
	TOTAL				1744.12
	Add Water Charges @ 1% except on A i.e on (1,744.12 - 29.16 =) 1,714.96				17.15
	TOTAL				1761.27
	Add CPOH @ 15% except on A i.e on (1,761.27 - 29.16 =) 1,732.11				259.82
	Cost of 18.54 kg				2021.09
	Cost of 1 kg				109.01
	Say				109.00

9.48 Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.

9.48.2 Fixed to openings/ wooden frames with rawl plugs screws etc

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a grill 90x120cm = 1.08sqm. MATERIAL: M.S. bar 16mm dia. 11x86cm = 9.46m. @ 1.58kg/m = 14.95kg+ Add wastage @ 10% = 1.50kg. Total = 16.45kg. Say 0.165quintal				
1003	Mild steel round bar above 12 mm dia	quintal	0.165	4400.00	726.00
	M.S. bar M.S. flat 25x3.15mm 2x120cm = 2.40m+ 2x90cm = 1.80m+ 1x120cm= 1.20m+ 2x15cm=0.30m Total=5.70m 5.70m @ 0.63kg/m = 3.59kg+ Add wastage @ 10% = 0.36kg. Total = 3.95kg. Say 4 kg. or 0.04 quintal				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1008	Flats up to 10 mm in thickness	quintal	0.040	4200.00	168.00
2205	Carriage of steel	tonne	0.020	94.65	1.89
	0.165 + 0.04 = 0.205 q = 0.0205 t Say 0.02 tonne				
9999	Sundries	L.S.	26.910	1.78	47.90
9999	Welding charges	L.S.	19.760	1.78	35.17
	Priming coat:Area=1x0.9x1.2x1=1.08 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing LABOUR:	sqm	1.080	27.00	29.16 A
0102	Blacksmith 1 st class	day	0.860	435.00	374.10
0114	Beldar	day	1.100	329.00	361.90
7048	Rawl plug 50 mm (designation 10 nos)	each	8.000	10.00	80.00
9999	Fixing of rawl plugs	L.S.	26.000	1.78	46.28
	TOTAL				1870.40
	Add Water Charges @ 1% except on A i.e on (1,870.40 - 29.16 =) 1,841.24				18.41
	TOTAL				1888.81
	Add CPOH @ 15% except on A i.e on (1,888.81 - 29.16 =) 1,859.65				278.95
	Cost of 18.54 kg				2167.76
	Cost of 1 kg				116.92
	Say				116.90

9.49 Providing and fixing expanded metal 20x60 mm strands 3.25 mm wide and 1.6 mm thick for windows etc. including 62 x19 mm beading of II nd class teak wood and priming coat with approved steel primer all complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm=1.54sqm.</i>				
	MATERIAL:				
	Expanded metal				
	-20x60mm mesh 3.2mm wide= 1.4x1.1 m				
	= 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	Total =1.69 sqm				
1015	Mild steel expanded metal 20x60 mm strands	sqm	1.690	300.00	507.00
9999	Carriage	L.S.	1.820	1.78	3.24
	Priming coat				
	Area=1.40x1.10x1.00=1.54sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	1.540	27.00	41.58 A
	Second class teak wood beading				
	5mx62mmx19mm = 0.0059cum.+				
	Add wastage @ 10% = 0.00059cum.				
	Total= 0.00649cum.				
	Say 6 cudm				
1190	Second class teak wood in planks	10 cudm	6.000	750.00	450.00
2204	Carriage of timber	cum	0.006	121.70	0.73

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0112	Carpenter 2nd class	day	0.330	399.00	131.67
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				1264.37
	Add Water Charges @ 1% except on A i.e on (1,264.37 - 41.58 =) 1,222.79				12.23
	TOTAL				1276.60
	Add CPOH @ 15% except on A i.e on (1,276.60 - 41.58 =) 1,235.02				185.25
	Cost of 1.54 sqm				1461.85
	Cost of 1 sqm				949.25
	Say				949.25
9.50	Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm=1.54sqm.</i>				
	MATERIAL:				
	Hard drawn steel wire fabric -20x60mm mesh 3.2mm wide = 1.4x1.1m= 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total = 1.69 sqm				
1021	Hard drawn steel wire fabric	sqm	1.690	440.00	743.60
9999	Carriage of wire fabric	L.S.	1.820	1.78	3.24
	Second class teak wood beading 5mx62mmx19mm =0.00059cum.+ Add wastage @ 10% = 0.00059cum. Total = 0.000649cum. Say 6 cudm Priming coat Area=1.40x1.10x1.00=1.54sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	1.540	27.00	41.58 A
1190	Second class teak wood in planks	10 cudm	6.000	750.00	450.00
2204	Carriage of timber	cum	0.006	121.70	0.73
	LABOUR:				
0112	Carpenter 2nd class	day	0.330	399.00	131.67
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				1488.24
	Add Water Charges @ 1% except on A i.e on (1,488.24 - 41.58 =) 1,446.66				14.47
	TOTAL				1502.71
	Add CPOH @ 15% except on A i.e on (1,502.71 - 41.58 =) 1,461.13				219.17
	Cost of 1.54 sqm				1721.88
	Cost of 1 sqm				1118.10
	Say				1118.10

9.51	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.				
9.51.1	With 2nd class teak wood beading 62X19 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm=1.54sqm.</i>				
	MATERIAL:				
	Wire gauge -20x60mm mesh 3.2mm wide =				
	1.4x1.1 m = 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	Total = 1.69 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.690	260.00	439.40
9999	Carriage of wire fabric	L.S.	1.820	1.78	3.24
	Second class teak wood beading				
	5mx62mmx19mm= 0.0059cum.+				
	Add wastage @ 10% = 0.00059cum.				
	Total = 0.00649cum.				
	Say 6 cudm				
1190	Second class teak wood in planks	10 cudm	6.000	750.00	450.00
2204	Carriage of timber	cum	0.006	121.70	0.73
	LABOUR:				
0112	Carpenter 2nd class	day	0.330	399.00	131.67
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				1142.46
	Add Water Charges @ 1%				11.42
	TOTAL				1153.88
	Add CPOH @ 15%				173.08
	Cost of 1.54 sqm				1326.96
	Cost of 1 sqm				861.66
	Say				861.65
9.51.2	With 12 mm mild steel U beading				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm = 1.54sqm.</i>				
	MATERIAL:				
	Wire gauge -20x60mm mesh 3.2mm wide =				
	1.4x1.1m = 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	Total = 1.69 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.690	260.00	439.40
9999	Carriage of wire fabric	L.S.	1.820	1.78	3.24
7349	12 mm M.S. 'U' beading	metre	5.000	15.00	75.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0112	Carpenter 2nd class	day	0.330	399.00	131.67
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				766.73
	Add Water Charges @ 1%				7.67
	TOTAL				774.40
	Add CPOH @ 15%				116.16
	Cost of 1.54 sqm				890.56
	Cost of 1 sqm				578.29
	Say				578.30
9.52	Deduct for fixing 75x25 mm hard drawn steel wire fabric of weight not less than 7.75 kg per sqm in panelled and glazed door and window shutter instead of glass sheet 4 mm thick.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm.</i>				
	MATERIAL:				
	Difference in cost of				
1021	Hard drawn steel wire fabric	sqm	1.000	440.00	440.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	-1.000	345.00	-345.00
	TOTAL				95.00
	Add Water Charges @ 1%				0.95
	TOTAL				95.95
	Add CPOH @ 15%				14.39
	Cost of 1 sqm				110.34
	Say				110.35
9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 hold fast</i>				
	MATERIAL:				
	M.S.flat 40x5mm 40cm long @ 1.68 kg/m = 0.672 kg = 0.0067 quintal				
1008	Flats up to 10 mm in thickness	quintal	0.0067	4200.00	28.14
9999	Carriage of steel	L.S.	1.820	1.78	3.24
	Cement concrete 1:3:6 30x10x15cm= 0.0045cum.+ Add wastage @ 10% = 0.00045cum. Total = 0.00495cum.				
	Say 0.005cum				
4.2.5	Rate as per Item Number 4.2.5 of SH: Concrete work	cum	0.005	5818.00	29.09 A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Bolts and nuts	L.S.	5.460	1.78	9.72
	LABOUR:				
0103	Blacksmith 2nd class	day	0.030	399.00	11.97
0123	Mason (brick layer) 1 st class	day	0.030	435.00	13.05
0114	Beldar	day	0.030	329.00	9.87
	TOTAL				105.08
	Add Water Charges @ 1% except on A i.e on (105.08 - 29.09 =) 75.99				0.76
	TOTAL				105.84
	Add CPOH @ 15% except on A i.e on (105.84 - 29.09 =) 76.75				11.51
	Cost of each				117.35
	Say				117.35

9.54 Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with:

9.54.1 Sal wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a beam 450x30x15cm = 0.203cum. or 203cudm</i>				
	MATERIAL:				
	Sal wood = 203 cudm.+				
	Add wastage @ 2% = 4.06cudm.				
	Total = 207.06cudm. Say 207.1 cudm				
1199	Sal wood in scantling	10 cudm	207.100	530.00	10976.30
2204	Carriage of timber	cum	0.207	121.70	25.19
	Priming coat (wood preservative)				
13.57.1	Rate as per Item Number 13.57.1 of SH: Finishing	sqm	0.540	31.90	17.23 A
	LABOUR:				
0112	Carpenter 2nd class	day	0.700	399.00	279.30
0114	Beldar	day	1.450	329.00	477.05
0100	Bandhani	day	0.700	363.00	254.10
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				12077.07
	Add Water Charges @ 1% except on A i.e on (12,077.07 - 17.23 =) 12,059.84				120.60
	TOTAL				12197.67
	Add CPOH @ 15% except on A i.e on (12,197.67 - 17.23 =) 12,180.44				1827.07
	Cost of 0.203 cum				14024.74
	Cost of 1 cum				69087.39
	Say				69087.40

9.54 Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with:

9.54.2 Hollock wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a beam 450x30x15cm = 0.203cum. or 203cudm</i>				
	MATERIAL:				
	Hollock wood = 203 cudm.+				
	Add wastage @ 2% = 4.06cudm.				
	Total = 207.06cudm. Say 207.1 cudm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2466	Hollock wood in scantling	10 cudm	207.100	340.00	7041.40
2204	Carriage of timber	cum	0.207	121.70	25.19
	Priming coat (wood preservative)				
13.57.1	Rate as per Item Number 13.57.1 of SH: Finishing	sqm	0.540	31.90	17.23 A
	LABOUR:				
0112	Carpenter 2nd class	day	0.700	399.00	279.30
0114	Beldar	day	1.450	329.00	477.05
0100	Bandhani	day	0.700	363.00	254.10
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				8142.17
	Add Water Charges @ 1% except on A i.e on (8,142.17 - 17.23 =) 8,124.94				81.25
	TOTAL				8223.42
	Add CPOH @ 15% except on A i.e on (8,223.42 - 17.23 =) 8,206.19				1230.93
	Cost of 0.203 cum				9454.35
	Cost of 1 cum				46573.15
	Say				46573.20

9.55 Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete:

9.55.1 125x65x2.12 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
0594	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 Nos	10.000	145.00	145.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	80.000	68.00	54.40
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				289.73
	Add Water Charges @ 1%				2.90
	TOTAL				292.63
	Add CPOH @ 15%				43.89
	Cost of 10 nos				336.52
	Cost of each				33.65
	Say				33.65

9.55.2 100x58x1.90 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	10.000	90.00	90.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	80.000	52.00	41.60
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				221.93
	Add Water Charges @ 1%				2.22
	TOTAL				224.15
	Add CPOH @ 15%				33.62
	Cost of 10 nos				257.77
	Cost of each				25.78
	Say				25.80

9.55.3 75x47x1.70 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 Nos	10.000	65.00	65.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 Nos	60.000	42.00	25.20
9999	Carriage of material	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				178.91
	Add Water Charges @ 1%				1.79
	TOTAL				180.70
	Add CPOH @ 15%				27.10
	Cost of 10 nos				207.80
	Cost of each				20.78
	Say				20.80

9.55.4 50x37x1.50 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	10.000	55.00	55.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	40.000	32.00	12.80
9999	Carriage of material	L.S.	0.910	1.78	1.62
	LABOUR:				
0112	Carpenter 2nd class	day	0.080	399.00	31.92
	TOTAL				101.34
	Add Water Charges @ 1%				1.01
	TOTAL				102.35
	Add CPOH @ 15%				15.35
	Cost of 10 nos				117.70
	Cost of each				11.77
	Say				11.75

9.56 Providing and fixing ISI marked, IS : 1341, M.S. heavy weight butt hinges with necessary screws etc. complete :

9.56.1 125x90x4.00 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
8222	M.S. heavy weight butt hinges 125x90x4.0 mm IS: 1341 marked.	10 Nos	10.000	350.00	350.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	80.000	68.00	54.40
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				494.73
	Add Water Charges @ 1%				4.95
	TOTAL				499.68
	Add CPOH @ 15%				74.95
	Cost of 10 nos				574.63
	Cost of each				57.46
	Say				57.45

9.56 Providing and fixing ISI marked, IS : 1341, M.S. heavy weight butt hinges with necessary screws etc. complete :

9.56.2 100x75x3.50 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos	10.000	200.00	200.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	80.000	52.00	41.60
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				331.93
	Add Water Charges @ 1%				3.32
	TOTAL				335.25
	Add CPOH @ 15%				50.29
	Cost of 10 nos				385.54
	Cost of each				38.55
	Say				38.55

9.56.3 75x60x3.10 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 Nos	10.000	100.00	100.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0638	Bright finished or black enameled mild steel screws 30 mm	100 Nos	60.000	42.00	25.20
9999	Carriage of material LABOUR:	L.S.	1.820	1.78	3.24
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				213.91
	Add Water Charges @ 1%				2.14
	TOTAL				216.05
	Add CPOH @ 15%				32.41
	Cost of 10 nos				248.46
	Cost of each				24.85
	Say				24.85

9.56.4 50x40x2.50 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	10.000	90.00	90.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	40.000	32.00	12.80
9999	Carriage of material LABOUR:	L.S.	0.910	1.78	1.62
0112	Carpenter 2nd class	day	0.080	399.00	31.92
	TOTAL				136.34
	Add Water Charges @ 1%				1.36
	TOTAL				137.70
	Add CPOH @ 15%				20.65
	Cost of 10 nos				158.35
	Cost of each				15.84
	Say				15.85

9.57 Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.

9.57.1 125x65x2.12 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	10.000	150.00	150.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.000	80.00	64.00
9999	Carriage of material LABOUR:	L.S.	3.640	1.78	6.48
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				305.95
	Add Water Charges @ 1%				3.06
	TOTAL				309.01
	Add CPOH @ 15%				46.35
	Cost of 10 nos				355.36
	Cost of each				35.54
	Say				35.55

9.57.2 100x58x1.90 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	10.000	95.00	95.00
0683	Oxidised mild steel screws 40 mm	100 Nos	80.000	65.00	52.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				237.33
	Add Water Charges @ 1%				2.37
	TOTAL				239.70
	Add CPOH @ 15%				35.96
	Cost of 10 nos				275.66
	Cost of each				27.57
	Say				27.55
9.57.3 75x47x1.70 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0644	Oxidised mild steel butt hinges 75x47x1.70 mm	10 Nos	10.000	70.00	70.00
0684	Oxidised mild steel screws 30 mm	100 Nos	60.000	50.00	30.00
9999	Carriage of material	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				188.71
	Add Water Charges @ 1%				1.89
	TOTAL				190.60
	Add CPOH @ 15%				28.59
	Cost of 10 nos				219.19
	Cost of each				21.92
	Say				21.90
9.57.4 50x37x1.50 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0645	Oxidised mild steel butt hinges 50x37x1.50 mm	10 Nos	10.000	60.00	60.00
0686	Oxidised mild steel screws 20 mm	100 Nos	40.000	38.00	15.20
9999	Carriage of material	L.S.	0.910	1.78	1.62
	LABOUR:				
0112	Carpenter 2nd class	day	0.080	399.00	31.92
	TOTAL				108.74
	Add Water Charges @ 1%				1.09
	TOTAL				109.83
	Add CPOH @ 15%				16.47
	Cost of 10 nos				126.30
	Cost of each				12.63
	Say				12.65

9.58	Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary screws etc. complete:				
9.58.1	150x125x27x2.80 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	10.000	350.00	350.00
0683	Oxidised mild steel screws 40 mm	100 Nos	80.000	65.00	52.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				508.78
	Add Water Charges @ 1%				5.09
	TOTAL				513.87
	Add CPOH @ 15%				77.08
	Cost of 10 nos				590.95
	Cost of each				59.10
	Say				59.10
9.58.2	125x125x27x2.80 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	10.000	325.00	325.00
0683	Oxidised mild steel screws 40 mm	100 Nos	80.000	65.00	52.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				483.78
	Add Water Charges @ 1%				4.84
	TOTAL				488.62
	Add CPOH @ 15%				73.29
	Cost of 10 nos				561.91
	Cost of each				56.19
	Say				56.20
9.58.3	100x125x27x2.80 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	10.000	240.00	240.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0683	Oxidised mild steel screws 40 mm	100 Nos	80.000	65.00	52.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				398.78
	Add Water Charges @ 1%				3.99
	TOTAL				402.77
	Add CPOH @ 15%				60.42
	Cost of 10 nos				463.19
	Cost of each				46.32
	Say				46.30

9.58.4 75x100x20x2.24 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	10.000	220.00	220.00
0684	Oxidised mild steel screws 30 mm	100 Nos	60.000	50.00	30.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				356.78
	Add Water Charges @ 1%				3.57
	TOTAL				360.35
	Add CPOH @ 15%				54.05
	Cost of 10 nos				414.40
	Cost of each				41.44
	Say				41.45

9.59 Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete:

9.59.1 150 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0650	Oxidised mild steel single acting spring hinges 150 mm	each	10.000	120.00	1200.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.000	80.00	64.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.400	399.00	159.60
0114	Beldar	day	0.200	329.00	65.80
	TOTAL				1494.26
	Add Water Charges @ 1%				14.94
	TOTAL				1509.20
	Add CPOH @ 15%				226.38
	Cost of 10 nos				1735.58
	Cost of each				173.56
	Say				173.55

9.59.2 125 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0651	Oxidised mild steel single acting spring hinges 125 mm	each	10.000	110.00	1100.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.000	80.00	64.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.400	399.00	159.60
0114	Beldar	day	0.200	329.00	65.80
	TOTAL				1394.26
	Add Water Charges @ 1%				13.94
	TOTAL				1408.20
	Add CPOH @ 15%				211.23
	Cost of 10 nos				1619.43
	Cost of each				161.94
	Say				161.95
9.59.3 100 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0652	Oxidised mild steel single acting spring hinges 100 mm	each	10.000	90.00	900.00
0683	Oxidised mild steel screws 40 mm	100 Nos	80.000	65.00	52.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.400	399.00	159.60
0114	Beldar	day	0.200	329.00	65.80
	TOTAL				1182.26
	Add Water Charges @ 1%				11.82
	TOTAL				1194.08
	Add CPOH @ 15%				179.11
	Cost of 10 nos				1373.19
	Cost of each				137.32
	Say				137.30
9.60 Providing and fixing oxidised M.S. double acting spring hinges with necessary screws etc. complete.					
9.60.1 150 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0653	Oxidised mild steel double acting spring hinges 150 mm	each	10.000	115.00	1150.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.000	80.00	64.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.400	399.00	159.60
0114	Beldar	day	0.200	329.00	65.80
	TOTAL				1444.26
	Add Water Charges @ 1%				14.44
	TOTAL				1458.70
	Add CPOH @ 15%				218.80
	Cost of 10 nos				1677.50
	Cost of each				167.75
	Say				167.75

9.60.2 125 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0654	Oxidised mild steel double acting spring hinges				
	125 mm	each	10.000	120.00	1200.00
0682	Oxidised mild steel screws 50 mm	100 Nos	80.000	80.00	64.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.400	399.00	159.60
0114	Beldar	day	0.200	329.00	65.80
	TOTAL				1494.26
	Add Water Charges @ 1%				14.94
	TOTAL				1509.20
	Add CPOH @ 15%				226.38
	Cost of 10 nos				1735.58
	Cost of each				173.56
	Say				173.55

9.60.3 100 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0655	Oxidised mild steel double acting spring hinges				
	100 mm	each	10.000	95.00	950.00
0683	Oxidised mild steel screws 40 mm	100 Nos	80.000	65.00	52.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.400	399.00	159.60
0114	Beldar	day	0.200	329.00	65.80
	TOTAL				1232.26
	Add Water Charges @ 1%				12.32
	TOTAL				1244.58
	Add CPOH @ 15%				186.69
	Cost of 10 nos				1431.27
	Cost of each				143.13
	Say				143.15

9.61	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.				
9.61.1	Overall width 35 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
0656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	1.000	50.00	50.00
0686	Oxidised mild steel screws 20 mm	100 Nos	30.000	38.00	11.40
9999	Carriage of material	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				150.11
	Add Water Charges @ 1%				1.50
	TOTAL				151.61
	Add CPOH @ 15%				22.74
	Cost of 1 metre				174.35
	Say				174.35
9.61	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.				
9.61.2	Overall width 50 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	1.000	42.00	42.00
0686	Oxidised mild steel screws 20 mm	100 Nos	30.000	38.00	11.40
9999	Carriage of material	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				142.11
	Add Water Charges @ 1%				1.42
	TOTAL				143.53
	Add CPOH @ 15%				21.53
	Cost of 1 metre				165.06
	Say				165.05
9.61	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.				
9.61.3	Overall width 65 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	1.000	55.00	55.00
0686	Oxidised mild steel screws 20 mm	100 Nos	30.000	38.00	11.40
9999	Carriage of material	L.S.	1.820	1.78	3.24

	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				155.11
	Add Water Charges @ 1%				1.55
	TOTAL				156.66
	Add CPOH @ 15%				23.50
	Cost of 1 metre				180.16
	Say				180.15

9.62 Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :
9.62.1 300x16 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0660	Oxidised mild steel sliding door bolt 300x16 mm	each	10.000	100.00	1000.00
7040	Oxidised mild steel screws 35 mm	100 Nos	120.000	50.00	60.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	40.000	8.00	320.00
9999	Carriage of materials & sundries	L.S.	6.370	1.78	11.34
	LABOUR:				
0112	Carpenter 2nd class	day	0.250	399.00	99.75
	TOTAL				1491.09
	Add Water Charges @ 1%				14.91
	TOTAL				1506.00
	Add CPOH @ 15%				225.90
	Cost of 10 nos				1731.90
	Cost of each				173.19
	Say				173.20

9.62 Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :
9.62.2 250x16 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0661	Oxidised mild steel sliding door bolt 250x16 mm	each	10.000	95.00	950.00
7040	Oxidised mild steel screws 35 mm	100 Nos	100.000	50.00	50.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	40.000	8.00	320.00
9999	Carriage of materials & sundries	L.S.	6.370	1.78	11.34
	LABOUR:				
0112	Carpenter 2nd class	day	0.250	399.00	99.75
	TOTAL				1431.09
	Add Water Charges @ 1%				14.31
	TOTAL				1445.40
	Add CPOH @ 15%				216.81
	Cost of 10 nos				1662.21
	Cost of each				166.22
	Say				166.20

9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:				
9.63.1	250x10 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	10.000	48.00	480.00
0684	Oxidised mild steel screws 30 mm	100 Nos	100.000	50.00	50.00
9999	Carriage of material	L.S.	3.640	1.78	6.48
	LABOUR:				
0112	Carpenter 2nd class	day	0.100	399.00	39.90
	TOTAL				576.38
	Add Water Charges @ 1%				5.76
	TOTAL				582.14
	Add CPOH @ 15%				87.32
	Cost of 10 nos				669.46
	Cost of each				66.95
	Say				66.95
9.63.2	200x10 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	10.000	42.00	420.00
0684	Oxidised mild steel screws 30 mm	100 Nos	80.000	50.00	40.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.100	399.00	39.90
	TOTAL				504.76
	Add Water Charges @ 1%				5.05
	TOTAL				509.81
	Add CPOH @ 15%				76.47
	Cost of 10 nos				586.28
	Cost of each				58.63
	Say				58.65
9.63.3	150x10 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	10.000	32.00	320.00
0684	Oxidised mild steel screws 30 mm	100 Nos	60.000	50.00	30.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.100	399.00	39.90
	TOTAL				394.76
	Add Water Charges @ 1%				3.95
	TOTAL				398.71
	Add CPOH @ 15%				59.81
	Cost of 10 nos				458.52
	Cost of each				45.85
	Say				45.85

9.63.4 100x10 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	10.000	27.00	270.00
0684	Oxidised mild steel screws 30 mm	100 Nos	60.000	50.00	30.00
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.080	399.00	31.92
	TOTAL				336.78
	Add Water Charges @ 1%				3.37
	TOTAL				340.15
	Add CPOH @ 15%				51.02
	Cost of 10 nos				391.17
	Cost of each				39.12
	Say				39.10
9.64 Providing and fixing ISI marked 85x42mm oxidised M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	10.000	55.00	550.00
9999	Carriage of material & sundries	L.S.	6.370	1.78	11.34
	LABOUR:				
0112	Carpenter 2nd class	day	0.250	399.00	99.75
	TOTAL				661.09
	Add Water Charges @ 1%				6.61
	TOTAL				667.70
	Add CPOH @ 15%				100.16
	Cost of 10 nos				767.86
	Cost of each				76.79
	Say				76.80
9.65 Providing and fixing ISI marked oxidised MS door latches conforming to IS : 5930 with screws etc. complete.					
9.65.1 300x20x6 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0662	Oxidised mild steel door latch 300x20x6 mm	each	10.000	50.00	500.00
0685	Oxidised mild steel screws 25 mm	100 Nos	90.000	50.00	45.00
9999	Carriage of materials	L.S.	3.640	1.78	6.48
	LABOUR:				
0112	Carpenter 2nd class	day	0.120	399.00	47.88
	TOTAL				599.36
	Add Water Charges @ 1%				5.99
	TOTAL				605.35
	Add CPOH @ 15%				90.80
	Cost of 10 nos				696.15
	Cost of each				69.62
	Say				69.60

9.65.2 250x20x6 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0663	Oxidised mild steel door latch 250x20x6 mm	each	10.000	42.00	420.00
0685	Oxidised mild steel screws 25 mm	100 Nos	90.000	50.00	45.00
9999	Carriage of materials	L.S.	3.640	1.78	6.48
	LABOUR:				
0112	Carpenter 2nd class	day	0.120	399.00	47.88
	TOTAL				519.36
	Add Water Charges @ 1%				5.19
	TOTAL				524.55
	Add CPOH @ 15%				78.68
	Cost of 10 nos				603.23
	Cost of each				60.32
	Say				60.30
9.66 Providing and fixing ISI marked oxidised M.S. handles conforming to IS :4992 with necessary screws etc. complete:					
9.66.1 125 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0668	Oxidised mild steel handles 125 mm	each	10.000	20.00	200.00
0685	Oxidised mild steel screws 25 mm	100 Nos	40.000	50.00	20.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.060	399.00	23.94
	TOTAL				248.80
	Add Water Charges @ 1%				2.49
	TOTAL				251.29
	Add CPOH @ 15%				37.69
	Cost of 10 nos				288.98
	Cost of each				28.90
	Say				28.90
9.66.2 100 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0669	Oxidised mild steel handles 100 mm	each	10.000	18.00	180.00
0685	Oxidised mild steel screws 25 mm	100 Nos	40.000	50.00	20.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.060	399.00	23.94
	TOTAL				227.18
	Add Water Charges @ 1%				2.27
	TOTAL				229.45
	Add CPOH @ 15%				34.42
	Cost of 10 nos				263.87
	Cost of each				26.39
	Say				26.40

9.66.3 75 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0670	Oxidised mild steel handles 75 mm	each	10.000	16.00	160.00
0685	Oxidised mild steel screws 25 mm	100 Nos	40.000	50.00	20.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.060	399.00	23.94
	TOTAL				207.18
	Add Water Charges @ 1%				2.07
	TOTAL				209.25
	Add CPOH @ 15%				31.39
	Cost of 10 nos				240.64
	Cost of each				24.06
	Say				24.05
9.67 Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete:					
9.67.1 150 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 Nos	10.000	130.00	130.00
0685	Oxidised mild steel screws 25 mm	100 Nos	80.000	50.00	40.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.080	399.00	31.92
	TOTAL				205.16
	Add Water Charges @ 1%				2.05
	TOTAL				207.21
	Add CPOH @ 15%				31.08
	Cost of 10 nos				238.29
	Cost of each				23.83
	Say				23.85
9.67.2 115 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 Nos	10.000	110.00	110.00
0685	Oxidised mild steel screws 25 mm	100 Nos	70.000	50.00	35.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.080	399.00	31.92
	TOTAL				180.16
	Add Water Charges @ 1%				1.80
	TOTAL				181.96
	Add CPOH @ 15%				27.29
	Cost of 10 nos				209.25
	Cost of each				20.93
	Say				20.90

9.67.3 90 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 Nos	10.000	80.00	80.00
0685	Oxidised mild steel screws 25 mm	100 Nos	70.000	50.00	35.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.080	399.00	31.92
	TOTAL				150.16
	Add Water Charges @ 1%				1.50
	TOTAL				151.66
	Add CPOH @ 15%				22.75
	Cost of 10 nos				174.41
	Cost of each				17.44
	Say				17.45
9.68 Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.					
9.68.1 300 mm weighing not less than 200 gms					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	10.000	25.00	250.00
0684	Oxidised mild steel screws 30 mm	100 Nos	40.000	50.00	20.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0112	Carpenter 2nd class	day	0.100	399.00	39.90
	TOTAL				311.52
	Add Water Charges @ 1%				3.12
	TOTAL				314.64
	Add CPOH @ 15%				47.20
	Cost of 10 nos				361.84
	Cost of each				36.18
	Say				36.20
9.68.2 250 mm weighing not less than 150 gms					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	10.000	22.00	220.00
0685	Oxidised mild steel screws 25 mm	100 Nos	40.000	50.00	20.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	Carpenter 2nd class	day	0.100	399.00	39.90
	TOTAL				281.52
	Add Water Charges @ 1%				2.82
	TOTAL				284.34
	Add CPOH @ 15%				42.65
	Cost of 10 nos				326.99
	Cost of each				32.70
	Say				32.70

9.68.3 200 mm weighing not less than 120 gms

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7065	Oxidised M.S. casement stay (straight peg type)				
	200 mm not less than 0.24 kg	each	10.000	20.00	200.00
0685	Oxidised mild steel screws 25 mm	100 Nos	40.000	50.00	20.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0112	Carpenter 2nd class	day	0.100	399.00	39.90
	TOTAL				261.52
	Add Water Charges @ 1%				2.62
	TOTAL				264.14
	Add CPOH @ 15%				39.62
	Cost of 10 nos				303.76
	Cost of each				30.38
	Say				30.40

9.69 Providing and fixing oxidised M.S. Safety chain with necessary fixtures for doors, (weighing not less than 450 gms).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	10.000	60.00	600.00
0685	Oxidised mild steel screws 25 mm	100 Nos	60.000	50.00	30.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0112	Carpenter 2nd class	day	0.100	399.00	39.90
	TOTAL				671.52
	Add Water Charges @ 1%				6.72
	TOTAL				678.24
	Add CPOH @ 15%				101.74
	Cost of 10 nos				779.98
	Cost of each				78.00
	Say				78.00

9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete:				
9.70.1	125x64x1.90 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	10.000	670.00	670.00
8210	Stainless steel screws 50 mm	100 Nos	80.000	260.00	208.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				968.33
	Add Water Charges @ 1%				9.68
	TOTAL				978.01
	Add CPOH @ 15%				146.70
	Cost of 10 nos				1124.71
	Cost of each				112.47
	Say				112.45
9.70.2	100X58X1.90 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8216	Stainless steel butt hinges 100x58x1.9 mm IS: 12817 marked	10 Nos	10.000	510.00	510.00
8211	Stainless steel screws 40 mm	100 Nos	80.000	208.00	166.40
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				766.73
	Add Water Charges @ 1%				7.67
	TOTAL				774.40
	Add CPOH @ 15%				116.16
	Cost of 10 nos				890.56
	Cost of each				89.06
	Say				89.05
9.70.3	75x47x1.80 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	10.000	275.00	275.00
8212	Stainless steel screws 30 mm	100 Nos	60.000	192.00	115.20
9999	Carriage of materials	L.S.	1.820	1.78	3.24

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	LABOUR: Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				478.91
	Add Water Charges @ 1%				4.79
	TOTAL				483.70
	Add CPOH @ 15%				72.55
	Cost of 10 nos				556.25
	Cost of each				55.63
	Say				55.60

9.70.4 50x37x1.50 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	10.000	190.00	190.00
8214	Stainless steel screws 20 mm	100 Nos	40.000	151.00	60.40
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0112	Carpenter 2nd class	day	0.080	399.00	31.92
	TOTAL				283.94
	Add Water Charges @ 1%				2.84
	TOTAL				286.78
	Add CPOH @ 15%				43.02
	Cost of 10 nos				329.80
	Cost of each				32.98
	Say				33.00

9.71 Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete:

9.71.1 125x64x2.50 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8219	Stainless steel butt hinges (heavy weight) 125x64 x 2.5 mm IS : 12817 marked	10 Nos	10.000	910.00	910.00
8210	Stainless steel screws 50 mm	100 Nos	80.000	260.00	208.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				1208.33
	Add Water Charges @ 1%				12.08
	TOTAL				1220.41
	Add CPOH @ 15%				183.06
	Cost of 10 nos				1403.47
	Cost of each				140.35
	Say				140.35

9.71.2 100x60x2.50 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8220	Stainless steel butt hinges (heavyweight) 100x60 x 2.5 mm IS : 12817 marked	10 Nos	10.000	690.00	690.00
8211	Stainless steel screws 40 mm	100 Nos	80.000	208.00	166.40
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				946.73
	Add Water Charges @ 1%				9.47
	TOTAL				956.20
	Add CPOH @ 15%				143.43
	Cost of 10 nos				1099.63
	Cost of each				109.96
	Say				109.95

9.71.3 75x50x2.50 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8221	Stainless steel butt hinges (heavy weight) 75x50 x 2.5 mm IS : 12817 marked	10 Nos	10.000	460.00	460.00
8212	Stainless steel screws 30 mm	100 Nos	60.000	192.00	115.20
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				663.91
	Add Water Charges @ 1%				6.64
	TOTAL				670.55
	Add CPOH @ 15%				100.58
	Cost of 10 nos				771.13
	Cost of each				77.11
	Say				77.10

9.72 Providing and fixing bright finished brass butt hinges with necessary screws etc. complete:

9.72.1 125x85x5.5 mm (heavy type)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0382	Brass butt hinges (heavy type):125x85x5.5 mm(0.70 kg)	10 Nos	10.000	3300.00	3300.00
0449	Brass screws 50 mm	100 Nos	100.000	220.00	220.00
9999	Carriage of materials	L.S.	3.640	1.78	6.48

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.100	329.00	32.90
	TOTAL				3620.28
	Add Water Charges @ 1%				36.20
	TOTAL				3656.48
	Add CPOH @ 15%				548.47
	Cost of 10 nos				4204.95
	Cost of each				420.50
	Say				420.50

9.72.2 125x70x4 mm (ordinary type)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	10.000	860.00	860.00
0449	Brass screws 50 mm	100 Nos	100.000	220.00	220.00
9999	Carriage of materials	L.S.	3.640	1.78	6.48
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.100	329.00	32.90
	TOTAL				1180.28
	Add Water Charges @ 1%				11.80
	TOTAL				1192.08
	Add CPOH @ 15%				178.81
	Cost of 10 nos				1370.89
	Cost of each				137.09
	Say				137.10

9.72.3 100x85x5.5 mm (heavy type)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0383	Brass butt hinges (heavy type):100x85x 5.5 mm(0.56 kg)	10 Nos	10.000	2800.00	2800.00
0450	Brass screws 40 mm	100 Nos	80.000	170.00	136.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.100	329.00	32.90
	TOTAL				3034.66
	Add Water Charges @ 1%				30.35
	TOTAL				3065.01
	Add CPOH @ 15%				459.75
	Cost of 10 nos				3524.76
	Cost of each				352.48
	Say				352.50

9.72.4 100x70x4 mm (ordinary type)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	10.000	720.00	720.00
0450	Brass screws 40 mm	100 Nos	80.000	170.00	136.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.100	329.00	32.90
	TOTAL				954.66
	Add Water Charges @ 1%				9.55
	TOTAL				964.21
	Add CPOH @ 15%				144.63
	Cost of 10 nos				1108.84
	Cost of each				110.88
	Say				110.90
9.72.5 75x65x4 mm (heavy type)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0384	Brass butt hinges (heavy type) :75x65x4.0 mm(0.20 kg)	10 Nos	10.000	1000.00	1000.00
0451	Brass screws 30 mm	100 Nos	60.000	140.00	84.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.100	329.00	32.90
	TOTAL				1182.66
	Add Water Charges @ 1%				11.83
	TOTAL				1194.49
	Add CPOH @ 15%				179.17
	Cost of 10 nos				1373.66
	Cost of each				137.37
	Say				137.35
9.72.6 75x40x2.5 mm (ordinary type)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	10.000	450.00	450.00
0451	Brass screws 30 mm	100 Nos	60.000	140.00	84.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.100	329.00	32.90
	TOTAL				632.66
	Add Water Charges @ 1%				6.33
	TOTAL				638.99
	Add CPOH @ 15%				95.85
	Cost of 10 nos				734.84
	Cost of each				73.48
	Say				73.50

9.72.7 50x40x2.5 mm (ordinary type)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	10.000	200.00	200.00
0453	Brass screws 20 mm	100 Nos	40.000	95.00	38.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.080	435.00	34.80
	TOTAL				276.04
	Add Water Charges @ 1%				2.76
	TOTAL				278.80
	Add CPOH @ 15%				41.82
	Cost of 10 nos				320.62
	Cost of each				32.06
	Say				32.05
9.73 Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete:					
9.73.1 150x125x27x5 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	10.000	2950.00	2950.00
0450	Brass screws 40 mm	100 Nos	80.000	170.00	136.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				3197.82
	Add Water Charges @ 1%				31.98
	TOTAL				3229.80
	Add CPOH @ 15%				484.47
	Cost of 10 nos				3714.27
	Cost of each				371.43
	Say				371.45
9.73.2 125x125x27x5 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0386	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	10.000	2600.00	2600.00
0450	Brass screws 40 mm	100 Nos	80.000	170.00	136.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				2847.82
	Add Water Charges @ 1%				28.48
	TOTAL				2876.30
	Add CPOH @ 15%				431.44
	Cost of 10 nos				3307.74
	Cost of each				330.77
	Say				330.75

9.73.3 100x125x27x5 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0387	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	10.000	2400.00	2400.00
0450	Brass screws 40 mm	100 Nos	80.000	170.00	136.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				2647.82
	Add Water Charges @ 1%				26.48
	TOTAL				2674.30
	Add CPOH @ 15%				401.15
	Cost of 10 nos				3075.45
	Cost of each				307.55
	Say				307.55

9.73.4 75x100x20x3.2 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0388	Brass parliamentary hinges 75x100x20x3.2 mm	10 Nos	10.000	1800.00	1800.00
0451	Brass screws 30 mm	100 Nos	60.000	140.00	84.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				1995.82
	Add Water Charges @ 1%				19.96
	TOTAL				2015.78
	Add CPOH @ 15%				302.37
	Cost of 10 nos				2318.15
	Cost of each				231.82
	Say				231.80

9.74 Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete:**9.74.1 250x10 mm**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0400	Brass tower bolt (barrel type) 250x10 mm	each	10.000	240.00	2400.00
0451	Brass screws 30 mm	100 Nos	100.000	140.00	140.00
9999	Carriage of materials	L.S.	4.550	1.78	8.10
	LABOUR:				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				2591.60
	Add Water Charges @ 1%				25.92
	TOTAL				2617.52
	Add CPOH @ 15%				392.63
	Cost of 10 nos				3010.15
	Cost of each				301.02
	Say				301.00

9.74.2 200x10 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0401	Brass tower bolt (barrel type) 200x10 mm	each	10.000	190.00	1900.00
0451	Brass screws 30 mm	100 Nos	80.000	140.00	112.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				2060.36
	Add Water Charges @ 1%				20.60
	TOTAL				2080.96
	Add CPOH @ 15%				312.14
	Cost of 10 nos				2393.10
	Cost of each				239.31
	Say				239.30

9.74.3 150x10 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0402	Brass tower bolt (barrel type) 150x10 mm	each	10.000	150.00	1500.00
0451	Brass screws 30 mm	100 Nos	80.000	140.00	112.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				1660.36
	Add Water Charges @ 1%				16.60
	TOTAL				1676.96
	Add CPOH @ 15%				251.54
	Cost of 10 nos				1928.50
	Cost of each				192.85
	Say				192.85

9.74.4 100x10 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0403	Brass tower bolt (barrel type) 100x10 mm	each	10.000	100.00	1000.00
0451	Brass screws 30 mm	100 Nos	60.000	140.00	84.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				1132.36
	Add Water Charges @ 1%				11.32
	TOTAL				1143.68
	Add CPOH @ 15%				171.55
	Cost of 10 nos				1315.23
	Cost of each				131.52
	Say				131.50
9.75 Providing and fixing bright finished brass door latch with necessary screws etc. complete:					
9.75.1 300x16x5 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0411	Brass door latch 300x16x5 mm (0.380 kg)	each	10.000	180.00	1800.00
0452	Brass screws 25 mm	100 Nos	90.000	100.00	90.00
9999	Carriage of materials	L.S.	3.640	1.78	6.48
	LABOUR:				
0111	Carpenter 1 st class	day	0.120	435.00	52.20
	TOTAL				1948.68
	Add Water Charges @ 1%				19.49
	TOTAL				1968.17
	Add CPOH @ 15%				295.23
	Cost of 10 nos				2263.40
	Cost of each				226.34
	Say				226.35
9.75.2 250x16x5 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0412	Brass door latch 250x16x5 mm (0.350 kg)	each	10.000	170.00	1700.00
0452	Brass screws 25 mm	100 Nos	90.000	100.00	90.00
9999	Carriage of materials	L.S.	3.640	1.78	6.48
	LABOUR:				
0111	Carpenter 1 st class	day	0.120	435.00	52.20
	TOTAL				1848.68
	Add Water Charges @ 1%				18.49
	TOTAL				1867.17
	Add CPOH @ 15%				280.08
	Cost of 10 nos				2147.25
	Cost of each				214.73
	Say				214.70

9.76	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
0413	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	1.000	390.00	390.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries (screws, carriage etc.)	L.S.	3.640	1.78	6.48
	TOTAL				470.43
	Add Water Charges @ 1%				4.70
	TOTAL				475.13
	Add CPOH @ 15%				71.27
	Cost of each				546.40
	Say				546.40
9.77	Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles of approved quality with necessary screws etc. complete				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
0414	Brass mortice latch 100x65mm with a pair of brass lever handles	each	1.000	330.00	330.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries (screws, carriage etc.)	L.S.	3.640	1.78	6.48
	TOTAL				410.43
	Add Water Charges @ 1%				4.10
	TOTAL				414.53
	Add CPOH @ 15%				62.18
	Cost of each				476.71
	Say				476.70
9.78	Providing and fixing bright finished brass night latch of approved quality including necessary screws etc. complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
0438	Brass night latch	each	1.000	500.00	500.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries (screws, carriage etc.)	L.S.	3.640	1.78	6.48
	TOTAL				580.43
	Add Water Charges @ 1%				5.80
	TOTAL				586.23
	Add CPOH @ 15%				87.93
	Cost of each				674.16
	Say				674.15

9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.				
9.79.1	40 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
2451	Brass cupboard lock 6 levers of approved quality, 40 mm size	each	1.000	70.00	70.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries & screws	L.S.	3.640	1.78	6.48
	TOTAL				150.43
	Add Water Charges @ 1%				1.50
	TOTAL				151.93
	Add CPOH @ 15%				22.79
	Cost of each				174.72
	Say				174.70
9.79.2	50 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
2452	Brass cupboard lock 6 levers of approved quality, 50 mm size	each	1.000	80.00	80.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries & screws	L.S.	3.640	1.78	6.48
	TOTAL				160.43
	Add Water Charges @ 1%				1.60
	TOTAL				162.03
	Add CPOH @ 15%				24.30
	Cost of each				186.33
	Say				186.35
9.79.3	65 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
2453	Brass cupboard lock 6 levers of approved quality, 65 mm size	each	1.000	85.00	85.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries & screws	L.S.	3.640	1.78	6.48
	TOTAL				165.43
	Add Water Charges @ 1%				1.65
	TOTAL				167.08
	Add CPOH @ 15%				25.06
	Cost of each				192.14
	Say				192.15

9.79.4 75 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
2454	Brass cupboard lock 6 levers of approved quality, 75 mm size	each	1.000	100.00	100.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries & screws	L.S.	3.640	1.78	6.48
	TOTAL				180.43
	Add Water Charges @ 1%				1.80
	TOTAL				182.23
	Add CPOH @ 15%				27.33
	Cost of each				209.56
	Say				209.55
9.80 Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with necessary screws.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos</i>				
	MATERIAL:				
0447	Brass cupboard knob or wardrobe knob 50 mm	each	10.000	35.00	350.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
	TOTAL				415.76
	Add Water Charges @ 1%				4.16
	TOTAL				419.92
	Add CPOH @ 15%				62.99
	Cost of 10 nos				482.91
	Cost of each				48.29
	Say				48.30
9.81 Providing and fixing bright finished brass handles with screws etc. complete:					
9.81.1 125 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0408	Brass handles 125 mm with plate 175x32 mm	each	10.000	150.00	1500.00
0452	Brass screws 25 mm	100 Nos	40.000	100.00	40.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.060	435.00	26.10
	TOTAL				1570.96
	Add Water Charges @ 1%				15.71
	TOTAL				1586.67
	Add CPOH @ 15%				238.00
	Cost of 10 nos				1824.67
	Cost of each				182.47
	Say				182.45

9.81.2 100 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0409	Brass handles 100 mm with plate 150x32 mm	each	10.000	140.00	1400.00
0452	Brass screws 25 mm	100 Nos	40.000	100.00	40.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0111	Carpenter 1 st class	day	0.060	435.00	26.10
	TOTAL				1467.72
	Add Water Charges @ 1%				14.68
	TOTAL				1482.40
	Add CPOH @ 15%				222.36
	Cost of 10 nos				1704.76
	Cost of each				170.48
	Say				170.50
9.81.3 75 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0410	Brass handles 75 mm with plate 125x32 mm	each	10.000	110.00	1100.00
0452	Brass screws 25 mm	100 Nos	40.000	100.00	40.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0111	Carpenter 1 st class	day	0.060	435.00	26.10
	TOTAL				1167.72
	Add Water Charges @ 1%				11.68
	TOTAL				1179.40
	Add CPOH @ 15%				176.91
	Cost of 10 nos				1356.31
	Cost of each				135.63
	Say				135.65
9.82 Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 hanging floor door stoppers.</i>				
	MATERIAL:				
2455	Brass hanging type door stopper 150 mm	each	10.000	70.00	700.00
0452	Brass screws 25 mm	100 Nos	20.000	100.00	20.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.030	435.00	13.05
	TOTAL				737.91
	Add Water Charges @ 1%				7.38
	TOTAL				745.29
	Add CPOH @ 15%				111.79
	Cost of 10 nos				857.08
	Cost of each				85.71
	Say				85.70

9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	10.000	600.00	6000.00
0451	Brass screws 30 mm	100 Nos	60.000	140.00	84.00
9999	Carriage of materials	L.S.	3.640	1.78	6.48
	LABOUR:				
0112	Carpenter 2nd class	day	1.000	399.00	399.00
	TOTAL				6489.48
	Add Water Charges @ 1%				64.89
	TOTAL				6554.37
	Add CPOH @ 15%				983.16
	Cost of 10 nos				7537.53
	Cost of each				753.75
	Say				753.75
9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7060	Hydraulic door closer tubular type Aluminium section body	each	10.000	850.00	8500.00
0451	Brass screws 30 mm	100 Nos	60.000	140.00	84.00
9999	Carriage of materials	L.S.	1.000	1.78	1.78
	LABOUR:				
0112	Carpenter 2nd class	day	1.000	399.00	399.00
	TOTAL				8984.78
	Add Water Charges @ 1%				89.85
	TOTAL				9074.63
	Add CPOH @ 15%				1361.19
	Cost of 10 nos				10435.82
	Cost of each				1043.58
	Say				1043.60
9.85	Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0423	Brass casement window fastener	each	10.000	60.00	600.00
0452	Brass screws 25 mm	100 Nos	40.000	100.00	40.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of materials LABOUR:	L.S.	0.910	1.78	1.62
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				685.12
	Add Water Charges @ 1%				6.85
	TOTAL				691.97
	Add CPOH @ 15%				103.80
	Cost of 10 nos				795.77
	Cost of each				79.58
	Say				79.60

9.86 Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete:

9.86.1 300 mm weighing not less than 330 gms

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	10.000	145.00	1450.00
0451	Brass screws 30 mm	100 Nos	40.000	140.00	56.00
9999	Carriage of materials LABOUR:	L.S.	0.910	1.78	1.62
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				1551.12
	Add Water Charges @ 1%				15.51
	TOTAL				1566.63
	Add CPOH @ 15%				234.99
	Cost of 10 nos				1801.62
	Cost of each				180.16
	Say				180.15

9.86.2 250 mm weighing not less than 280 gms

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	10.000	120.00	1200.00
0452	Brass screws 25 mm	100 Nos	40.000	100.00	40.00
9999	Carriage of materials LABOUR:	L.S.	0.910	1.78	1.62
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				1285.12
	Add Water Charges @ 1%				12.85
	TOTAL				1297.97
	Add CPOH @ 15%				194.70
	Cost of 10 nos				1492.67
	Cost of each				149.27
	Say				149.25

9.86.3 200 mm weighing not less than 240 gms					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	10.000	110.00	1100.00
0452	Brass screws 25 mm	100 Nos	40.000	100.00	40.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				1185.12
	Add Water Charges @ 1%				11.85
	TOTAL				1196.97
	Add CPOH @ 15%				179.55
	Cost of 10 nos				1376.52
	Cost of each				137.65
	Say				137.65
9.87 Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete:					
9.87.1 150 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0431	Brass hasps and staples (safety type) 150 mm	10 Nos	10.000	800.00	800.00
0452	Brass screws 25 mm	100 Nos	80.000	100.00	80.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.080	435.00	34.80
	TOTAL				918.04
	Add Water Charges @ 1%				9.18
	TOTAL				927.22
	Add CPOH @ 15%				139.08
	Cost of 10 nos				1066.30
	Cost of each				106.63
	Say				106.65
9.87.2 115 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0432	Brass hasps and staples (safety type) 115 mm	10 Nos	10.000	670.00	670.00
0453	Brass screws 20 mm	100 Nos	70.000	95.00	66.50
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.080	435.00	34.80
	TOTAL				774.54
	Add Water Charges @ 1%				7.75
	TOTAL				782.29
	Add CPOH @ 15%				117.34
	Cost of 10 nos				899.63
	Cost of each				89.96
	Say				89.95
9.87.3 90 mm					

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0433	Brass hasps and staples (safety type) 90 mm	10 Nos	10.000	570.00	570.00
0453	Brass screws 20 mm	100 Nos	70.000	95.00	66.50
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.080	435.00	34.80
	TOTAL				674.54
	Add Water Charges @ 1%				6.75
	TOTAL				681.29
	Add CPOH @ 15%				102.19
	Cost of 10 nos				783.48
	Cost of each				78.35
	Say				78.35

9.88 Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
0558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	1.000	600.00	600.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries (screws, carriage etc.)	L.S.	3.640	1.78	6.48
	TOTAL				680.43
	Add Water Charges @ 1%				6.80
	TOTAL				687.23
	Add CPOH @ 15%				103.08
	Cost of each				790.31
	Say				790.30

9.89 Providing and fixing chromium plated brass night latch of approved quality including necessary screws etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
0583	Chromium plated Brass Night latch	each	1.000	550.00	550.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries (screws, carriage etc.)	L.S.	3.640	1.78	6.48
	TOTAL				630.43
	Add Water Charges @ 1%				6.30
	TOTAL				636.73
	Add CPOH @ 15%				95.51
	Cost of each				732.24
	Say				732.25

9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.				
9.90.1	Size 40 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
2468	Nickled Chromium Brass cupboard lock 40 mm size	each	1.000	70.00	70.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries & screws	L.S.	3.640	1.78	6.48
	TOTAL				150.43
	Add Water Charges @ 1%				1.50
	TOTAL				151.93
	Add CPOH @ 15%				22.79
	Cost of each				174.72
	Say				174.70
9.90.2	Size 50 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
	MATERIAL:				
2469	Nickled Chromium Brass cupboard lock 50 mm size	each	1.000	80.00	80.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries & screws	L.S.	3.640	1.78	6.48
	TOTAL				160.43
	Add Water Charges @ 1%				1.60
	TOTAL				162.03
	Add CPOH @ 15%				24.30
	Cost of each				186.33
	Say				186.35
9.90.3	Size 65 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
	MATERIAL:				
2470	Nickled Chromium Brass cupboard lock 65 mm size	each	1.000	90.00	90.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries & screws	L.S.	3.640	1.78	6.48
	TOTAL				170.43
	Add Water Charges @ 1%				1.70
	TOTAL				172.13
	Add CPOH @ 15%				25.82
	Cost of each				197.95
	Say				197.95
9.90.4	Size 75 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
	MATERIAL:				
2471	Nickled Chromium Brass cupboard lock 75 mm size	each	1.000	115.00	115.00
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries & screws	L.S.	3.640	1.78	6.48
	TOTAL				195.43
	Add Water Charges @ 1%				1.95
	TOTAL				197.38
	Add CPOH @ 15%				29.61
	Cost of each				226.99
	Say				227.00
9.91 Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0584	Chromium plated Brass Wardrobe Knob 50 mm	each	10.000	50.00	500.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
	TOTAL				565.76
	Add Water Charges @ 1%				5.66
	TOTAL				571.42
	Add CPOH @ 15%				85.71
	Cost of 10 nos				657.13
	Cost of each				65.71
	Say				65.70
9.92 Providing and fixing chromium plated brass handles with necessary screws etc. complete:					
9.92.1 125 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	10.000	200.00	2000.00
0452	Brass screws 25 mm	100 Nos	40.000	100.00	40.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.060	435.00	26.10
	TOTAL				2070.96
	Add Water Charges @ 1%				20.71
	TOTAL				2091.67
	Add CPOH @ 15%				313.75
	Cost of 10 nos				2405.42
	Cost of each				240.54
	Say				240.55
9.92.2 100 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	10.000	175.00	1750.00
0452	Brass screws 25 mm	100 Nos	40.000	100.00	40.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR: Carpenter 1 st class	day	0.060	435.00	26.10
	TOTAL				1817.72
	Add Water Charges @ 1%				18.18
	TOTAL				1835.90
	Add CPOH @ 15%				275.38
	Cost of 10 nos				2111.28
	Cost of each				211.13
	Say				211.15

9.92.3 75 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	10.000	150.00	1500.00
0452	Brass screws 25 mm	100 Nos	40.000	100.00	40.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0111	Carpenter 1 st class	day	0.060	435.00	26.10
	TOTAL				1567.72
	Add Water Charges @ 1%				15.68
	TOTAL				1583.40
	Add CPOH @ 15%				237.51
	Cost of 10 nos				1820.91
	Cost of each				182.09
	Say				182.10

9.93 Providing and fixing chromium plated brass casement window fastener with necessary screws etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0568	Chromium plated brass casement window fastener	each	10.000	100.00	1000.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.000	125.00	50.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				1095.12
	Add Water Charges @ 1%				10.95
	TOTAL				1106.07
	Add CPOH @ 15%				165.91
	Cost of 10 nos				1271.98
	Cost of each				127.20
	Say				127.20

9.94	Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete :				
9.94.1	300 mm weighing not less than 330 gms				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	10.000	170.00	1700.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.000	125.00	50.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				1795.12
	Add Water Charges @ 1%				17.95
	TOTAL				1813.07
	Add CPOH @ 15%				271.96
	Cost of 10 nos				2085.03
	Cost of each				208.50
	Say				208.50
9.94.2	250 mm weighing not less than 280 gms				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	10.000	140.00	1400.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.000	125.00	50.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				1495.12
	Add Water Charges @ 1%				14.95
	TOTAL				1510.07
	Add CPOH @ 15%				226.51
	Cost of 10 nos				1736.58
	Cost of each				173.66
	Say				173.65
9.94.3	200 mm weighing not less than 240 gms				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	10.000	125.00	1250.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.000	125.00	50.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				1345.12
	Add Water Charges @ 1%				13.45
	TOTAL				1358.57
	Add CPOH @ 15%				203.79
	Cost of 10 nos				1562.36
	Cost of each				156.24
	Say				156.25

9.95 Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :

9.95.1 125x75x4 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	10.000	590.00	590.00
0585	Chromium plated Brass screws 50 mm	100 Nos	100.000	250.00	250.00
9999	Carriage of materials	L.S.	3.640	1.78	6.48
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				936.99
	Add Water Charges @ 1%				9.37
	TOTAL				946.36
	Add CPOH @ 15%				141.95
	Cost of 10 nos				1088.31
	Cost of each				108.83
	Say				108.85

9.95.2 125x63x4 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	10.000	540.00	540.00
0585	Chromium plated Brass screws 50 mm	100 Nos	100.000	250.00	250.00
9999	Carriage of materials	L.S.	3.640	1.78	6.48
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				886.99
	Add Water Charges @ 1%				8.87
	TOTAL				895.86
	Add CPOH @ 15%				134.38
	Cost of 10 nos				1030.24
	Cost of each				103.02
	Say				103.00

9.95.3 100x75x4 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	10.000	530.00	530.00
0586	Chromium plated Brass screws 40 mm	100 Nos	80.000	220.00	176.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				801.37
	Add Water Charges @ 1%				8.01
	TOTAL				809.38
	Add CPOH @ 15%				121.41
	Cost of 10 nos				930.79
	Cost of each				93.08
	Say				93.10
9.95.4 100x63x4 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	10.000	520.00	520.00
0586	Chromium plated Brass screws 40 mm	100 Nos	80.000	220.00	176.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				791.37
	Add Water Charges @ 1%				7.91
	TOTAL				799.28
	Add CPOH @ 15%				119.89
	Cost of 10 nos				919.17
	Cost of each				91.92
	Say				91.90
9.95.5 100x63x3.2 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	10.000	520.00	520.00
0586	Chromium plated Brass screws 40 mm	100 Nos	80.000	220.00	176.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				791.37
	Add Water Charges @ 1%				7.91
	TOTAL				799.28
	Add CPOH @ 15%				119.89
	Cost of 10 nos				919.17
	Cost of each				91.92
	Say				91.90

9.95.6 75x63x4 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	10.000	510.00	510.00
0587	Chromium plated Brass screws 30 mm	100 Nos	60.000	160.00	96.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				699.75
	Add Water Charges @ 1%				7.00
	TOTAL				706.75
	Add CPOH @ 15%				106.01
	Cost of 10 nos				812.76
	Cost of each				81.28
	Say				81.30

9.95.7 75x63x3.2 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	10.000	490.00	490.00
0587	Chromium plated Brass screws 30 mm	100 Nos	60.000	160.00	96.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				679.75
	Add Water Charges @ 1%				6.80
	TOTAL				686.55
	Add CPOH @ 15%				102.98
	Cost of 10 nos				789.53
	Cost of each				78.95
	Say				78.95

9.95.8 75x45x3.2 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	10.000	400.00	400.00
0587	Chromium plated Brass screws 30 mm	100 Nos	60.000	160.00	96.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				589.75
	Add Water Charges @ 1%				5.90
	TOTAL				595.65
	Add CPOH @ 15%				89.35
	Cost of 10 nos				685.00
	Cost of each				68.50
	Say				68.50

9.96	Providing and fixing aluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete:				
9.96.1	300x16 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0696	Anodised Aluminium sliding door bolt 300x16 mm	each	10.000	170.00	1700.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.000	125.00	50.00
9999	Carriage of materials	L.S.	5.460	1.78	9.72
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
	TOTAL				1977.22
	Add Water Charges @ 1%				19.77
	TOTAL				1996.99
	Add CPOH @ 15%				299.55
	Cost of 10 nos				2296.54
	Cost of each				229.65
	Say				229.65
9.96.2	250x16 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0697	Anodised Aluminium sliding door bolt 250x16 mm	each	10.000	135.00	1350.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.000	125.00	50.00
9999	Carriage of materials	L.S.	5.460	1.78	9.72
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
	TOTAL				1627.22
	Add Water Charges @ 1%				16.27
	TOTAL				1643.49
	Add CPOH @ 15%				246.52
	Cost of 10 nos				1890.01
	Cost of each				189.00
	Say				189.00
9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with necessary screws etc. complete:				
9.97.1	300x10 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos	10.000	775.00	775.00
0587	Chromium plated Brass screws 30 mm	100 Nos	80.000	160.00	128.00
9999	Carriage of materials	L.S.	4.420	1.78	7.87
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	Carpenter 1 st class	day	0.125	435.00	54.38
	TOTAL				965.25
	Add Water Charges @ 1%				9.65
	TOTAL				974.90
	Add CPOH @ 15%				146.23
	Cost of 10 nos				1121.13
	Cost of each				112.11
	Say				112.10

9.97.2 250x10 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0699	Anodised Aluminium tower bolt (barrel type) 250x10 mm 10 Nos	10 Nos	10.000	630.00	630.00
0587	Chromium plated Brass screws 30 mm	100 Nos	80.000	160.00	128.00
9999	Carriage of materials	L.S.	4.420	1.78	7.87
	LABOUR:				
0111	Carpenter 1 st class	day	0.125	435.00	54.38
	TOTAL				820.25
	Add Water Charges @ 1%				8.20
	TOTAL				828.45
	Add CPOH @ 15%				124.27
	Cost of 10 nos				952.72
	Cost of each				95.27
	Say				95.25

9.97.3 200x10 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0700	Anodised Aluminium tower bolt (barrel type) 200x10 mm 10 Nos	10 Nos	10.000	495.00	495.00
0587	Chromium plated Brass screws 30 mm	100 Nos	80.000	160.00	128.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.125	435.00	54.38
	TOTAL				682.24
	Add Water Charges @ 1%				6.82
	TOTAL				689.06
	Add CPOH @ 15%				103.36
	Cost of 10 nos				792.42
	Cost of each				79.24
	Say				79.25

9.97.4 150x10 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm 10 Nos	10 Nos	10.000	395.00	395.00
0587	Chromium plated Brass screws 30 mm	100 Nos	80.000	160.00	128.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.080	435.00	34.80
	TOTAL				562.66
	Add Water Charges @ 1%				5.63
	TOTAL				568.29
	Add CPOH @ 15%				85.24
	Cost of 10 nos				653.53
	Cost of each				65.35
	Say				65.35

9.97.5 100x10 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0702	Anodised Aluminium tower bolt (barrel type) 100x10 mm 10 Nos	10 Nos	10.000	315.00	315.00
0587	Chromium plated Brass screws 30 mm	100 Nos	60.000	160.00	96.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.080	435.00	34.80
	TOTAL				450.66
	Add Water Charges @ 1%				4.51
	TOTAL				455.17
	Add CPOH @ 15%				68.28
	Cost of 10 nos				523.45
	Cost of each				52.35
	Say				52.35

9.98 Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 pull bolt lock</i>				
	MATERIAL:				
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	10.000	55.00	550.00
9999	Carriage of materials	L.S.	6.370	1.78	11.34
	LABOUR:				
0112	Carpenter 2nd class	day	0.250	399.00	99.75
	TOTAL				661.09
	Add Water Charges @ 1%				6.61
	TOTAL				667.70
	Add CPOH @ 15%				100.16
	Cost of 10 nos				767.86
	Cost of each				76.79
	Say				76.80

9.99	Providing and fixing 50 cm long aluminium kicking plate of size 100x3.15 mm, anodised (anodic coating not less than grade AC 10 as per IS :1868), transparent or dyed to required colour or shade, with necessary screws etc. complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mmeach		10.000	135.00	1350.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.000	125.00	50.00
9999	Carriage of materials	L.S.	5.460	1.78	9.72
	LABOUR:				
0111	Carpenter 1 st class	day	0.070	435.00	30.45
0114	Beldar	day	0.050	329.00	16.45
	TOTAL				1456.62
	Add Water Charges @ 1%				14.57
	TOTAL				1471.19
	Add CPOH @ 15%				220.68
	Cost of 10 nos				1691.87
	Cost of each				169.19
	Say				169.20
9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:				
9.100.1	125 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	10.000	520.00	520.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.000	125.00	50.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.060	435.00	26.10
	TOTAL				600.96
	Add Water Charges @ 1%				6.01
	TOTAL				606.97
	Add CPOH @ 15%				91.05
	Cost of 10 nos				698.02
	Cost of each				69.80
	Say				69.80
9.100.2	100 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	10.000	395.00	395.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.000	125.00	50.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR: Carpenter 1 st class	day	0.060	435.00	26.10
	TOTAL				474.34
	Add Water Charges @ 1%				4.74
	TOTAL				479.08
	Add CPOH @ 15%				71.86
	Cost of 10 nos				550.94
	Cost of each				55.09
	Say				55.10

9.100.3 75 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	10.000	335.00	335.00
0589	Chromium plated Brass screws 20 mm	100 nos	40.000	100.00	40.00
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.060	435.00	26.10
	TOTAL				404.34
	Add Water Charges @ 1%				4.04
	TOTAL				408.38
	Add CPOH @ 15%				61.26
	Cost of 10 nos				469.64
	Cost of each				46.96
	Say				46.95

9.101 Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.

9.101.1 Single rubber stopper

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
2459	Anodised Aluminium hanging type door stopper	each	10.000	28.00	280.00
0588	Chromium plated Brass screws 25 mm	100 Nos	20.000	125.00	25.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.030	435.00	13.05
	TOTAL				322.91
	Add Water Charges @ 1%				3.23
	TOTAL				326.14
	Add CPOH @ 15%				48.92
	Cost of 10 nos				375.06
	Cost of each				37.51
	Say				37.50

9.101.2 Twin rubber stopper

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	10.000	68.00	680.00
0588	Chromium plated Brass screws 25 mm	100 Nos	20.000	125.00	25.00
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	0.030	435.00	13.05
	TOTAL				722.91
	Add Water Charges @ 1%				7.23
	TOTAL				730.14
	Add CPOH @ 15%				109.52
	Cost of 10 nos				839.66
	Cost of each				83.97
	Say				83.95

9.102 Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
2465	Anodised Aluminium Casement stay 250 mm	each	10.000	55.00	550.00
0588	Chromium plated Brass screws 25 mm	100 Nos	40.000	125.00	50.00
9999	Carriage of materials	L.S.	0.910	1.78	1.62
	LABOUR:				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
	TOTAL				645.12
	Add Water Charges @ 1%				6.45
	TOTAL				651.57
	Add CPOH @ 15%				97.74
	Cost of 10 nos				749.31
	Cost of each				74.93
	Say				74.95

9.103 Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete .

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 lock</i>				
	MATERIAL:				
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	1.000	280.00	280.00
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	1.000	340.00	340.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries including carriage of materials	L.S.	4.550	1.78	8.10
	TOTAL				702.05
	Add Water Charges @ 1%				7.02
	TOTAL				709.07
	Add CPOH @ 15%				106.36
	Cost of each				815.43
	Say				815.45

9.104 Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long</i>				
	MATERIAL:				
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	2.000	52.00	104.00
9999	Labour	L.S.	2.730	1.78	4.86
9999	Sundries	L.S.	1.430	1.78	2.55
	TOTAL				111.41
	Add Water Charges @ 1%				1.11
	TOTAL				112.52
	Add CPOH @ 15%				16.88
	Cost of 2 metre				129.40
	Cost of 1 metre				64.70
	Say				64.70

9.105 Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/ sqm(both side inclusive), consisting of floor and ceiling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.

9.105.1 75 mm overall thickness partition with 12.5 mm thick double skin fire rated board conforming to IS: 2095: part I

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6.00x3.65 = 21.9 sqm (Partition Panel)</i>				
	MATERIAL:				
7366	Glass reinforced Gypsum (GRG) board 12.5 mm thick	sqm	43.800	250.00	10950.00
	50mm floor and ceiling channel 2x6.00 =12m				
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	12.000	70.00	840.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7369	48mm stud-72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	40.150	80.00	3212.00
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 Nos	392.000	60.00	235.20
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.000	50.00	1100.00
7048	Rawl plug 50 mm (designation 10 nos) [(3.65/0.45)+1]x2= 18	each	18.000	10.00	180.00
0869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.270	4.50	86.72
0763	Glue (22/100)x21.90=4.82	kilogram	4.820	70.00	337.40
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 Nos	roll	0.584	135.00	78.84
7021	Primer (for gypsum board) (36/100)21.90 = 7.88 litre	litre	7.880	73.00	575.24
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 Nos	44.000	25.00	110.00
1211	G.I. plain washer for seam bolts	100 Nos	44.000	30.00	13.20
9999	Sundries and carriage	L.S.	52.000	1.78	92.56
9999	Sundries scaffolding Labour for 21.90 sqm.	L.S.	130.000	1.78	231.40
0111	Carpenter 1 st class 0.3x21.90	day	6.570	435.00	2857.95
0112	Carpenter 2nd class 0.13x21.90	day	2.847	399.00	1135.95
0131	Painter 0.05x21.90	day	1.095	399.00	436.90
0114	Beldar 0.35x21.90	day	7.665	329.00	2521.78
TOTAL					24995.14
Add Water Charges @ 1%					249.95
TOTAL					25245.09
Add CPOH @ 15%					3786.76
Cost of 21.9 sqm					29031.85
Cost of 1 sqm					1325.66
Say					1325.65

9.105.2 75 mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum board conforming to IS: 2095: part I

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6.00x3.65 = 21.9 sqm (Partition Panel)</i>				
	MATERIAL:				
8717	12.5 mm thick Glass fibre reinforced Gypsum board	sqm	43.800	195.00	8541.00
	Gypsum board -2x6.00x3.65=43.80sqm				
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2x6.00 = 12m	metre	12.000	70.00	840.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm 72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.150	80.00	3212.00
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 Nos	392.000	60.00	235.20
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.000	50.00	1100.00
7048	Rawl plug 50 mm (designation 10 nos) [(3.65/0.45)+ 1]x2= 18	each	18.000	10.00	180.00
0869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.270	4.50	86.72
0763	Glue (22/100)x21.90=4.82	kilogram	4.820	70.00	337.40
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 Nos.	roll	0.584	135.00	78.84
7021	Primer (for gypsum board) (36/100)21.90 = 7.88 litre	litre	7.880	73.00	575.24
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 Nos	44.000	25.00	110.00
1211	G.I. plain washer for seam bolts	100 Nos	44.000	30.00	13.20
9999	Sundries carriage	L.S.	52.000	1.78	92.56
9999	Sundries scaffolding Labour for 21.90 sqm.	L.S.	130.000	1.78	231.40
0111	Carpenter 1 st class 0.3x21.90	day	6.570	435.00	2857.95
0112	Carpenter 2nd class 0.13x21.90	day	2.847	399.00	1135.95
0131	Painter 0.05x21.90	day	1.095	399.00	436.90
0114	Beldar 0.35x21.90	day	7.665	329.00	2521.78
TOTAL					22586.14
Add Water Charges @ 1%					225.86
TOTAL					22812.00
Add CPOH @ 15%					3421.80
Cost of 21.9 sqm					26233.80
Cost of 1 sqm					1197.89
Say					1197.90

9.105.3 66 mm overall thickness Partition with 8 mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process with Compressive Strength 225 kg/sq cm, Bending Strength 100 kg/ sq cm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 6.00x3.65 = 21.9 sqm. (Partition Panel)</i>					
MATERIAL:					
8699	8 mm thick tapered edge calcium silicate board	sqm	43.800	250.00	10950.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2x6.00 = 12m	metre	12.000	70.00	840.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm 72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65= 40.15m	metre	40.150	80.00	3212.00
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 Nos	392.000	60.00	235.20
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.000	50.00	1100.00
7048	Rawl plug 50 mm (designation 10 nos) [(3.65/0.45)+1]x2= 18	each	18.000	10.00	180.00
0869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.270	4.50	86.72
0763	Glue (22/100)x21.90=4.82	kilogram	4.820	70.00	337.40
7018	Joint tape roll (120m roll)(300/100)x21.90/120 = 0.584 Nos	roll	0.584	135.00	78.84
7021	Primer (for gypsum board) (36/100)21.90 = 7.88 litre	litre	7.880	73.00	575.24
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 Nos	44.000	25.00	110.00
1211	G.I. plain washer for seam bolts	100 Nos	44.000	30.00	13.20
9999	Sundries carriage	L.S.	52.000	1.78	92.56
9999	Sundries scaffolding Labour for 21.90 sqm.	L.S.	130.000	1.78	231.40
0111	Carpenter 1 st class 0.3x21.90	day	6.570	435.00	2857.95
0112	Carpenter 2nd class 0.13x21.90	day	2.847	399.00	1135.95
0131	Painter 0.05x21.90	day	1.095	399.00	436.90
0114	Beldar 0.35x21.90	day	7.665	329.00	2521.78
TOTAL					24995.14
Add Water Charges @ 1%					249.95
TOTAL					25245.09
Add CPOH @ 15%					3786.76
Cost of 21.9 sqm					29031.85
Cost of 1 sqm					1325.66
Say					1325.65

9.105.4 66 mm overall thickness partition using 8 mm thick double skin non- asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (High pressure steam cured) as per IS: 14862 with suitable fibre cement screws

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for</i>				
	MATERIAL:				
0237	Multi purpose fibre (high impact poly propylene reinforced) cement board 8 mm thick	sqm	43.800	260.00	11388.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	12.000	70.00	840.00
	2x6.00 =12m				
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	40.150	80.00	3212.00
	72x34x36x0.5mm				
	(6.00/0.61)+1 = 11x3.65 = 40.15m				
7020	All drive screws (for gypsum board)	100 Nos	392.000	60.00	235.20
	[(3.65/0.30)+1]x11x2 = 308				
	[(6.00/0.30)+1]x2x2=84				
	Total = 392				
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	22.000	50.00	1100.00
	[(6.00/0.61)+1]x2=22				
7048	Rawl plug 50 mm (designation 10 nos)	each	18.000	10.00	180.00
	[(3.65/0.45)+1]x2= 18				
0869	Plaster of Paris	kilogram	19.270	4.50	86.72
	(88/100)x21.9 = 19.27				
0763	Glue	kilogram	4.820	70.00	337.40
	(22/100)x21.90=4.82				
7018	Joint tape roll	roll	0.584	135.00	78.84
	(120m roll) (300/100)x21.90/120 = 0.584 No				
7021	Primer (for gypsum board)	litre	7.880	73.00	575.24
	(36/100)21.90 = 7.88 litre				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	44.000	25.00	110.00
	11x2x2=44				
1211	G.I. plain washer for seam bolts	100 Nos	44.000	30.00	13.20
9999	Sundries carriage	L.S.	52.000	1.78	92.56
9999	Sundries scaffolding	L.S.	130.000	1.78	231.40
	Labour for 21.90 sqm.				
0111	Carpenter 1 st class	day	6.570	435.00	2857.95
	0.3x21.90				
0112	Carpenter 2nd class	day	2.847	399.00	1135.95
	0.13x21.90				
0131	Painter	day	1.095	399.00	436.90
	0.05x21.90				
0114	Beldar	day	7.665	329.00	2521.78
	0.35x21.90				
	TOTAL				25433.14
	Add Water Charges @ 1%				254.33
	TOTAL				25687.47
	Add CPOH @ 15%				3853.12
	Cost of 21.9 sqm				29540.59
	Cost of 1 sqm				1348.89
	Say				1348.90

9.106 Providing and fixing PTMT handles with necessary screws etc. complete.**9.106.1 125x34x24 mm weighing not less than 23 gms**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos.</i>				
	MATERIAL :				
7512	PTMT handle 125x34x24 mm	each	10.000	35.00	350.00
0639	Bright finished or black enameled mild steel screws				
	25 mm	100 Nos	40.000	38.00	15.20
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR :				
0112	Carpenter 2nd class	day	0.060	399.00	23.94
	TOTAL				394.00
	Add Water Charges @ 1%				3.94
	TOTAL				397.94
	Add CPOH @ 15%				59.69
	Cost of 10 nos.				457.63
	Cost of each				45.76
	Say				45.75

9.106.2 150x34x24 mm weighing not less than 26 gms

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos.</i>				
	MATERIAL :				
7513	PTMT handle 150x34x24 mm	each	10.000	40.00	400.00
0639	Bright finished or black enameled mild steel screws				
	25 mm	100 Nos	40.000	38.00	15.20
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR :				
0112	Carpenter 2nd class	day	0.060	399.00	23.94
	TOTAL				444.00
	Add Water Charges @ 1%				4.44
	TOTAL				448.44
	Add CPOH @ 15%				67.27
	Cost of 10 nos.				515.71
	Cost of each				51.57
	Say				51.55

9.107 Providing and fixing PTMT Butt hinges with necessary screws etc. complete.**9.107.1 75x60x10 mm fitted with 5.5 mm dia M.S. Bright Bar Rod weighing not less than 34 gms**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos.</i>				
	MATERIAL				
7514	PTMT butt hinges 75x60x10 mm	each	10.000	50.00	500.00
0638	Bright finished or black enameled mild steel screws				
	30 mm	100 Nos	60.000	42.00	25.20
9999	Carriage of materials	L.S.	1.820	1.78	3.24
	LABOUR :				
0112	Carpenter 2nd class	day	0.140	399.00	55.86

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				613.91
	Add Water Charges @ 1%				6.14
	TOTAL				620.05
	Add CPOH @ 15%				93.01
	Cost of 10 nos.				713.06
	Cost of each				71.31
	Say				71.30

9.107.2 100x75x10 mm fitted with 5.5 mm dia MS Bright Bar Rod weighing not less than 53 gms

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos.</i>				
	MATERIAL :				
7515	PTMT butt hinges 100x75x10 mm	each	10.000	65.00	650.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	80.000	52.00	41.60
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR :				
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.090	329.00	29.61
	TOTAL				781.93
	Add Water Charges @ 1%				7.82
	TOTAL				789.75
	Add CPOH @ 15%				118.46
	Cost of 10 nos				908.21
	Cost of each				90.82
	Say				90.80

9.108 Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete.

9.108.1 152x42x18 mm weighing not less than 60 gms

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos</i>				
	MATERIAL :				
7516	PTMT Tower bolt 152x42x18 mm	each	10.000	70.00	700.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 Nos	60.000	42.00	25.20
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR :				
0112	Carpenter 2nd class	day	0.080	399.00	31.92
	TOTAL				761.98
	Add Water Charges @ 1%				7.62
	TOTAL				769.60
	Add CPOH @ 15%				115.44
	Cost of 10 nos				885.04
	Cost of each				88.50
	Say				88.50

9.108.2 202x42x18 mm weighing not less than 78 gms

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos</i>				
	MATERIAL :				
7517	PTMT Tower bolt 202x42x18 mm	each	10.000	90.00	900.00
0638	Bright finished or black enameled mild steel screws				
	30 mm	100 Nos	80.000	42.00	33.60
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR :				
0112	Carpenter 2nd class	day	0.100	399.00	39.90
	TOTAL				978.36
	Add Water Charges @ 1%				9.78
	TOTAL				988.14
	Add CPOH @ 15%				148.22
	Cost of 10 nos				1136.36
	Cost of each				113.64
	Say				113.65

9.109 Providing and fixing PTMT door catcher of length 72 mm and dia. of 42 mm with suitable washers weighing not less than 33 gms.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos</i>				
	MATERIAL :				
7518	PTMT door catcher 72x42 mm	each	10.000	35.00	350.00
0639	Bright finished or black enameled mild steel screws				
	25 mm	100 Nos	20.000	38.00	7.60
9999	Carriage of materials	L.S.	2.730	1.78	4.86
	LABOUR :				
0111	Carpenter 1 st class	day	0.030	435.00	13.05
	TOTAL				375.51
	Add Water Charges @ 1%				3.76
	TOTAL				379.27
	Add CPOH @ 15%				56.89
	Cost of 10 nos				436.16
	Cost of each				43.62
	Say				43.60

9.110 Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25 mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of hallock wood in scantling of section 50X25 mm, fixed with nails and G.I wire on existing support, complete as per direction of Engineer-in-Charge.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a bamboo jaffery of size 1.00mx2.10m</i>				
	= 2.10sqm				
	MATERIAL:				
	Bamboo 25mm of 100/ 2.50 = 40 NosHalf cut off = 40/2				
	=20 Nos. x 2.10 = 42.00mAdd wastage @ 15% = 6.30m				
	Total = 48.30m				
	Rate of Bamboo 25 mm dia 2.5 metre long for one score				
	i.e. 20nos is Rs. 192for 48.30m qty 48.30 /(2.5*20) =				
	0.966				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0305	Bamboo 25 mm dia 2.5 metre long	score	0.966	350.00	338.10
9999	Carriage of bamboo	L.S.	4.830	1.78	8.60
2466	Hollock wood in scantling	10 cu dm	3.940	340.00	133.96
	3 Nos. (1.00 x 0.05 x 0.025) = 0.00375 cum Add wastage @ 5% = 0.00019 cum Total = 0.00394 cum or 3.94 cu dm				
2204	Carriage of timber	cum	0.00394	121.70	0.48
9999	Nails and wire	L.S.	20.250	1.78	36.04
	LABOUR:				
0112	Carpenter 2nd class	day	0.250	399.00	99.75
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	10.050	1.78	17.89
	TOTAL				717.07
	Add Water Charges @ 1%				7.17
	TOTAL				724.24
	Add CPOH @ 15%				108.64
	Cost of 2.1 sqm				832.88
	Cost of 1 sqm				396.61
	Say				396.60
9.111	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.				
9.111.1	50x50 mm (base and height)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for beading = 5.00 m</i>				
	MATERIAL:				
	Teak wood 2nd class in plan ks 5.00x.05x.05/2 = 0.00625 cum Add wastage @10% = 0.00063 Total = 0.00688 cum say 6.88 cu dm				
1190	Second class teak wood in planks	10 cu dm	6.880	750.00	516.00
2204	Carriage of timber	cum	0.00688	121.70	0.84
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	6.000	52.00	3.12
	Priming coat Area 5.0 x (.05 +.05) = 0.50 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.500	32.95	16.48 A
	LABOUR:				
	For planing, fixing & making design				
0111	Carpenter 1 st class	day	0.750	435.00	326.25
	TOTAL				862.69
	Add Water Charges @ 1% except on A i.e on (862.69 - 16.48 =) 846.21				8.46
	TOTAL				871.15
	Add CPOH @ 15% except on A i.e on (871.15 - 16.48 =) 854.67				128.20
	Cost of 5 metre				999.35
	Cost of 1 metre				199.87
	Say				199.85

9.112	Providing and fixing 2nd class teak wood lipping / moulded beading or taj beading of size 18X5 mm fixed with wooden adhesive of approved quality and screws / nails on the edges of the Pre-laminated particle board as per direction of Engineer-in-Charge.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10. 00 m</i>				
	MATERIAL:				
8719	2nd class teak wood lipping / moulded beading or Taj beading of size 18X5 mm	metre	10.000	35.00	350.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.250	399.00	99.75
0114	Beldar	day	0.250	329.00	82.25
	TOTAL				532.00
	Add Water Charges @ 1%				5.32
	TOTAL				537.32
	Add CPOH @ 15%				80.60
	Cost of 10 metre				617.92
	Cost of 1 metre				61.79
	Say				61.80
9.113	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer-in-charge.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
8716	100 mm mortice lock with 6 levers for aluminium door	each	1.000	340.00	340.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.130	435.00	56.55
9999	Sundries (screws, carriage etc.)	L.S.	2.600	1.78	4.63
	TOTAL				401.18
	Add Water Charges @ 1%				4.01
	TOTAL				405.19
	Add CPOH @ 15%				60.78
	Cost of each				465.97
	Say				465.95
9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete .				
9.114.1	Triple strip vertical type				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
	MATERIAL:				
8714	Magnetic catcher triple strip vertical type	each	1.000	20.00	20.00
9999	Sundries including screws and fixing charges.	L.S.	2.600	1.78	4.63
	TOTAL				24.63
	Add Water Charges @ 1%				0.25
	TOTAL				24.88
	Add CPOH @ 15%				3.73
	Cost of each				28.61
	Say				28.60
9.114.2	Double strip (horizontal type)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one no.</i>				
	MATERIAL:				
8715	Magnetic catcher double strip horizontal type	each	1.000	15.00	15.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries including screws and fixing charges.	L.S.	2.600	1.78	4.63
	TOTAL				19.63
	Add Water Charges @ 1%				0.20
	TOTAL				19.83
	Add CPOH @ 15%				2.97
	Cost of each				22.80
	Say				22.80

9.115 Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer-in-charge.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sets</i>				
	MATERIAL:				
8703	Telescopic drawer channels 300 mm long	set	10.000	150.00	1500.00
9999	Carriage	L.S.	19.500	1.78	34.71
9999	Sundries including screws and fixing charges.	L.S.	100.100	1.78	178.18
	TOTAL				1712.89
	Add Water Charges @ 1%				17.13
	TOTAL				1730.02
	Add CPOH @ 15%				259.50
	Cost of 10 sets				1989.52
	Cost of one set				198.95
	Say				198.95

9.116 Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by with stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
	MATERIAL:				
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/cabinets shutter	each	1.000	9.00	9.00
9999	Labour for fixing	L.S.	1.040	1.78	1.85
	TOTAL				10.85
	Add Water Charges @ 1%				0.11
	TOTAL				10.96
	Add CPOH @ 15%				1.64
	Cost of each				12.60
	Say				12.60

9.117 Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge

9.117.1 Extruded section profile size 48x40 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.000	160.00	800.00
	LABOUR:				
0156	Carpenter (average)	day	0.150	417.00	62.55

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	4.680	1.78	8.33
	TOTAL				920.23
	Add Water Charges @ 1%				9.20
	TOTAL				929.43
	Add CPOH @ 15%				139.41
	Cost of 5 metre				1068.84
	Cost of 1 metre				213.77
	Say				213.75

9.117.2 Extruded section profile size 42x50 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
8705	50 mmX42 mmX2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.000	150.00	750.00
	LABOUR:				
0156	Carpenter (average)	day	0.150	417.00	62.55
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	4.680	1.78	8.33
	TOTAL				870.23
	Add Water Charges @ 1%				8.70
	TOTAL				878.93
	Add CPOH @ 15%				131.84
	Cost of 5 metre				1010.77
	Cost of 1 metre				202.15
	Say				202.15

9.118 Providing and fixing to existing door frames.

9.118.1 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8001	24 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish including carriage	sqm	2.380	2200.00	5236.00
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				5570.64
	Add Water Charges @ 1%				55.71
	TOTAL				5626.35
	Add CPOH @ 15%				843.95
	Cost of 2.38 sqm				6470.30
	Cost of 1 sqm				2718.61
	Say				2718.60

9.118.2 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8002	30 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2.380	2300.00	5474.00
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				5808.64
	Add Water Charges @ 1%				58.09
	TOTAL				5866.73
	Add CPOH @ 15%				880.01
	Cost of 2.38 sqm				6746.74
	Cost of 1 sqm				2834.76
	Say				2834.75

9.118.3 25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. An M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8706	25 mm thick factory made PVC flush door shutter i/c carriage	sqm	2.380	2200.00	5236.00
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				5570.64
	Add Water Charges @ 1%				55.71
	TOTAL				5626.35
	Add CPOH @ 15%				843.95
	Cost of 2.38 sqm				6470.30
	Cost of 1 sqm				2718.61
	Say				2718.60

- 9.119 Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door frame of 5 metre</i>				
	MATERIAL:				
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	5.000	370.00	1850.00
	LABOUR:				
0156	Carpenter (average)	day	0.150	417.00	62.55
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	7.800	1.78	13.88
	TOTAL				1975.78
	Add Water Charges @ 1%				19.76
	TOTAL				1995.54
	Add CPOH @ 15%				299.33
	Cost of 5 metre				2294.87
	Cost of 1 metre				458.97
	Say				458.95

- 9.120 Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.**

9.120.1 30 mm thick plain PVC door shutters					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8003	Factory made PVC rigid foam panelled shutter i/c carriage	sqm	2.380	2200.00	5236.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mm X 1.9 mm	10 Nos	4.000	90.00	36.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
9.118	Providing and fixing to existing door frames.				
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				5634.16
	Add Water Charges @ 1%				56.34
	TOTAL				5690.50
	Add CPOH @ 15%				853.58
	Cost of 2.38 sqm				6544.08
	Cost of 1 sqm				2749.61
	Say				2749.60
9.120.2 30 mm thick pre laminated PVC door shutters					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	2.380	2600.00	6188.00
8100	Powder coated M.S. butt hinges 100 mm X58 mmX 1.9 mm	10 Nos	4.000	90.00	36.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				6586.16
	Add Water Charges @ 1%				65.86
	TOTAL				6652.02
	Add CPOH @ 15%				997.80
	Cost of 2.38 sqm				7649.82
	Cost of 1 sqm				3214.21
	Say				3214.20

- 9.121 Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat . Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door frame of 5 metre</i>				
	MATERIAL:				
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage	metre	5.000	390.00	1950.00
	LABOUR:				
0156	Carpenter (average)	day	0.150	417.00	62.55
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	7.800	1.78	13.88
	TOTAL				2075.78
	Add Water Charges @ 1%				20.76
	TOTAL				2096.54
	Add CPOH @ 15%				314.48
	Cost of 5 metre				2411.02
	Cost of 1 metre				482.20
	Say				482.20

- 9.122 Providing and fixing to existing door frames.**

- 9.122.1 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter</i>				
	<i>2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage	sqm	2.380	1900.00	4522.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mm X 1.9 mm	10 Nos	4.000	90.00	36.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				4920.16
	Add Water Charges @ 1%				49.20
	TOTAL				4969.36
	Add CPOH @ 15%				745.40
	Cost of 2.38 sqm				5714.76
	Cost of 1 sqm				2401.16
	Say				2401.15

9.122.2 30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	sqm	2.380	2200.00	5236.00
8100	Powder coated M.S. butt hinges 100 mm X58 mm X 1.9 mm	10 Nos	4.000	90.00	36.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				5634.16
	Add Water Charges @ 1%				56.34
	TOTAL				5690.50
	Add CPOH @ 15%				853.58
	Cost of 2.38 sqm				6544.08
	Cost of 1 sqm				2749.61
	Say				2749.60

9.123 Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement , including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door frame of 5 metre</i>				
	MATERIAL:				
8710	Factory made solid PVC door frame 60 x 30 mm i/c carriage	metre	5.000	300.00	1500.00
	LABOUR:				
0156	Carpenter (average)	day	0.150	417.00	62.55
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	7.800	1.78	13.88
	TOTAL				1625.78
	Add Water Charges @ 1%				16.26
	TOTAL				1642.04
	Add CPOH @ 15%				246.31
	Cost of 5 metre				1888.35
	Cost of 1 metre				377.67
	Say				377.65

- 9.124 Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mm x 1 mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge.**

9.124.1 Non decorative finish

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8712	30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish	sqm	2.380	2150.00	5117.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mm X 1.9 mm	10 Nos	4.000	90.00	36.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				5515.16
	Add Water Charges @ 1%				55.15
	TOTAL				5570.31
	Add CPOH @ 15%				835.55
	Cost of 2.38 sqm				6405.86
	Cost of 1 sqm				2691.54
	Say				2691.55

9.124.2 Decorative finish (both side wood grained finish)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 2.20x1.08m=2.38 sqm</i>				
	MATERIAL:				
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	sqm	2.380	2700.00	6426.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mm X 1.9 mm	10 Nos	4.000	90.00	36.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				6824.16
	Add Water Charges @ 1%				68.24
	TOTAL				6892.40
	Add CPOH @ 15%				1033.86
	Cost of 2.38 sqm				7926.26
	Cost of 1 sqm				3330.36
	Say				3330.35
9.125	Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.0x0.3m = 0.3 sqm</i>				
	MATERIAL:				
8006	Factory made PVC rigid foam sheet 1 mm thick	sqm	0.330	200.00	66.00
	PVC rigid foam sheet 1mm thick = 0.30 sqm				
	Add wastage @ 10% = 0.03 sqmTotal = 0.33 sqm				
9999	Rubber adhesive	L.S.	21.840	1.78	38.88
	LABOUR:				
0111	Carpenter 1 st class	day	0.110	435.00	47.85
0114	Beldar	day	0.140	329.00	46.06
0130	Mistry	day	0.020	435.00	8.70
	TOTAL				207.49
	Add Water Charges @ 1%				2.07
	TOTAL				209.56
	Add CPOH @ 15%				31.43
	Cost of 0.3 sqm				240.99
	Cost of 1 sqm				803.30
	Say				803.30
9.126	Providing and fixing 12 mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick.				
9.126.1	Marine plywood conforming to IS : 710				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3rd panelling</i>				
	<i>...200x108cm=2.16sqm. Panel area = 4x45.1x36.55cm</i>				
	<i>= 0.67sqm</i>				
	MATERIAL:				
	Plywood 4x47.2x38.65cm = 0.73sqm+				
	Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm				
8724	12 mm thick marine plywood conforming to IS: 710	sqm	0.800	850.00	680.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of plywood	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				939.06
	Add Water Charges @ 1%				9.39
	TOTAL				948.45
	Add CPOH @ 15%				142.27
	Cost of 0.67 sqm				1090.72
	Cost of 1 sqm				1627.94
	Say				1627.95

9.126.2 Fire retardant plywood conforming to IS : 5509

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3rd paneling 200x 108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm</i>				
	MATERIAL:				
	Plywood 4x47.2x38.65cm = 0.73sqm+				
	Add for wastage @ 10% = 0.07sqm. Total = 0.80 sqm				
8725	12 mm thick fire retardant plywood conforming to IS:	sqm	0.800	880.00	704.00
	5509				
9999	Carriage of plywood	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				963.06
	Add Water Charges @ 1%				9.63
	TOTAL				972.69
	Add CPOH @ 15%				145.90
	Cost of 0.67 sqm				1118.59
	Cost of 1 sqm				1669.54
	Say				1669.55

9.127 Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.

9.127.1 1.5 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5.00 sqm</i>				
	MATERIAL:				
	Decorative laminate = 5.00 sqm				
	Add wastage @ 10% = 0.50 sqm Total = 5.50 sqm				
8726	1.5 mm thick decorative laminated sheet	sqm	5.500	500.00	2750.00
9999	Adhesive	L.S.	195.000	1.78	347.10
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries i/c nails etc.	L.S.	52.000	1.78	92.56
	TOTAL				3571.66
	Add Water Charges @ 1%				35.72
	TOTAL				3607.38
	Add CPOH @ 15%				541.11
	Cost of 5 sqm				4148.49
	Cost of 1 sqm				829.70
	Say				829.70

9.127.2 1.0 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5.00 sqm</i>				
	MATERIAL:				
	Decorative laminate = 5.00 sqm				
	Add wastage @ 10% = 0.50 sqm Total = 5.50 sqm				
8727	1.0 mm thick decorative laminated sheet	sqm	5.500	380.00	2090.00
9999	Adhesive	L.S.	195.000	1.78	347.10
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries i/c nails etc.	L.S.	52.000	1.78	92.56
	TOTAL				2911.66
	Add Water Charges @ 1%				29.12
	TOTAL				2940.78
	Add CPOH @ 15%				441.12
	Cost of 5 sqm				3381.90
	Cost of 1 sqm				676.38
	Say				676.40

- 9.128 Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS : 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS : 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a chajja 0.90 x 0.60 = 0.54 sqm</i>				
	MATERIAL:				
8713	Fiber glass reinforced plastic chajja including accessories	sqm	0.540	3800.00	2052.00
9999	Carriage	L.S.	26.000	1.78	46.28
9999	fixing charges including sundries.	L.S.	143.000	1.78	254.54
	TOTAL				2352.82
	Add Water Charges @ 1%				23.53
	TOTAL				2376.35
	Add CPOH @ 15%				356.45
	Cost of 0.54 sqm				2732.80
	Cost of 1 sqm				5060.74
	Say				5060.75

- 9.129 Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS : 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 2.20x1.00m = 2.20sqm.</i>				
	MATERIAL:				
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	2.200	940.00	2068.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage	L.S.	29.640	1.78	52.76
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	4.400	48.00	211.20
0685	Oxidised mild steel screws 25 mm	100 Nos	125.000	50.00	62.50
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
0130	Mistry	day	0.070	435.00	30.45
7271	Ilnd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.000	40.00	280.00
	TOTAL				3086.91
	Add Water Charges @ 1%				30.87
	TOTAL				3117.78
	Add CPOH @ 15%				467.67
	Cost of 2.2 sqm				3585.45
	Cost of 1 sqm				1629.75
	Say				1629.75

9.130 Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make including Ilnd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.

9.130.1 With decorative veneering on one side and commercial veneering on other side

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 2.20x1.00m = 2.20sqm.</i>				
	MATERIAL:				
7269	25 mm thick particle board	sqm	2.200	480.00	1056.00
0346	Extra for veneered particle board with Teak veneering on one side and commercial veneering on other side	sqm	2.200	270.00	594.00
9999	Carriage	L.S.	29.640	1.78	52.76
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	4.400	48.00	211.20
0685	Oxidised mild steel screws 25 mm	100 Nos	125.000	50.00	62.50
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
0130	Mistry	day	0.070	435.00	30.45
7271	Ilnd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.000	40.00	280.00
	TOTAL				2668.91
	Add Water Charges @ 1%				26.69
	TOTAL				2695.60
	Add CPOH @ 15%				404.34
	Cost of 2.2 sqm				3099.94
	Cost of 1 sqm				1409.06
	Say				1409.05

9.130.2 With non decorative veneering on both sides					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 2.20x1.00m = 2.20sqm.</i>				
	MATERIAL:				
7269	25 mm thick particle board	sqm	2.200	480.00	1056.00
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	2.200	180.00	396.00
9999	Carriage	L.S.	29.640	1.78	52.76
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	4.400	48.00	211.20
0685	Oxidised mild steel screws 25 mm	100 Nos	125.000	50.00	62.50
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
0130	Mistry	day	0.070	435.00	30.45
7271	Ilnd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.000	40.00	280.00
	TOTAL				2470.91
	Add Water Charges @ 1%				24.71
	TOTAL				2495.62
	Add CPOH @ 15%				374.34
	Cost of 2.2 sqm				2869.96
	Cost of 1 sqm				1304.53
	Say				1304.55
9.131	Providing and fixing factory made shutters of pre-laminated particle board flat pressed three layer or graded wood particle board with one side decorative finish and other side balancing lamination conforming to IS : 12823 Grade I Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading all-round the shutter, including fixing with angle cleat, grip strip, cadmium plated steel screws, including fixing of aluminium hinges 100x63x4 mm etc. complete as per architectural drawing and direction of Engineer-in-Charge (Cost of 'U' beading and hinges will be paid for separately).				
9.131.1	25 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.10 sqm (Door size 2.1 x 1.00m)</i>				
	MATERIAL:				
	Prelaminated particle board = 2.10sqm.+				
	Add for wastage @ 5% = 0.11 sqm.				
	Total = 2.21sqm				
7445	25 mm thick prelaminated flush door shutter both side decorative	sqm	2.210	850.00	1878.50
7443	Aluminium single cleat of size 30x32x3 mm	each	4.000	15.00	60.00
7444	Aluminium grip strip of size 50x12x2 mm	each	8.000	12.00	96.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	0.150	160.00	24.00
9999	Carriage of materials including loading and unloading	L.S.	19.500	1.78	34.71
9999	Sundries and screw etc.	L.S.	39.000	1.78	69.42
	LABOUR:				
0112	Carpenter 2nd class	day	0.270	399.00	107.73
0114	Beldar	day	0.300	329.00	98.70
	TOTAL				2369.06
	Add Water Charges @ 1%				23.69
	TOTAL				2392.75
	Add CPOH @ 15%				358.91
	Cost of 2.1 sqm				2751.66
	Cost of 1 sqm				1310.31
	Say				1310.30

9.132	Providing and fixing aluminum U beading of required size to Pre laminated / flush door shutter, including fixing etc. complete as per direction of Engineer-in-Charge.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 kg</i>				
	MATERIAL:				
	Aluminum U beading = 1.00kg +				
	Add 10% wastage = 0.10				
	Total = 1.10kg				
7449	Aluminium U beading	kilogram	1.100	220.00	242.00
9999	Anodized 15 micron	L.S.	65.000	1.78	115.70
9999	Sundries including screws, fixing, carriage etc.	L.S.	13.000	1.78	23.14
	TOTAL				380.84
	Add Water Charges @ 1%				3.81
	TOTAL				384.65
	Add CPOH @ 15%				57.70
	Cost of 1 kg				442.35
	Say				442.35
9.133	Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55 mm thick) having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm, placed @ 610 mm C/C in perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610 mm C/C with fully threaded self-tapping dry wall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200 mm C/C., all complete as per the drawing & directions of engineer-in-charge, the joints of the boards are finished with specially formulated jointing compound and 48 mm wide jointing tape to provide seamless finish.				
9.133.1	Tapered edge calcium silicate board made with calcareous & siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with compressive strength 225 kg/sqcm, Bending strength 100 kg/sqcm.				
9.133.1.1	10 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3.66 mx 3.05 m =11.16 sqm</i>				
	MATERIAL:				
	Calcium silicate board 10mm thick.= 11.16 sqm				
	Add wastage @ 10% = 1.12 sqm.				
	Total = 12.28 sqm				
8700	10 mm thick calcium silicate board	sqm	12.280	400.00	4912.00
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	19.660	44.00	865.04
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	9.600	27.00	259.20
8722	Nylon sleeves & wooden screws (40 mm)	each	42.000	2.00	84.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	176.000	80.00	140.80
9999	Jointing compound	L.S.	20.800	1.78	37.02

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7018	Joint tape roll	roll	0.190	135.00	25.65
9999	Sundries i/c rawl plug. Scaffolding etc.	L.S.	52.000	1.78	92.56
9999	Carriage of materials	L.S.	26.000	1.78	46.28
	LABOUR:				
0111	Carpenter 1 st class	day	3.800	435.00	1653.00
0114	Beldar	day	4.600	329.00	1513.40
	TOTAL				9628.95
	Add Water Charges @ 1%				96.29
	TOTAL				9725.24
	Add CPOH @ 15%				1458.79
	Cost of 11.16 sqm				11184.03
	Cost of 1 sqm				1002.15
	Say				1002.15

9.133.2 Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS :14862 with suitable fibre cement screw

9.133.2.1 8 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3.66 m x 3.05 m =11.16 sqm</i>				
	MATERIAL:				
	Multipurpose non asbestos fibre cement board				
	8mm thick. = 11.16 sqm				
	Add wastage @ 10% =1.12 sqm.				
	Total = 12.28 sqm				
0237	Multi purpose fibre (high impact poly propelene reinforced) cement board 8 mm thick	sqm	12.280	260.00	3192.80
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	19.660	44.00	865.04
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	9.600	27.00	259.20
8722	Nylon sleeves & wooden screws (40 mm)	each	42.000	2.00	84.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	176.000	80.00	140.80
9999	Jointing compound	L.S.	20.800	1.78	37.02
7018	Joint tape roll	roll	0.190	135.00	25.65
9999	Sundries i/c rawl plug. Scaffolding etc.	L.S.	52.000	1.78	92.56
9999	Carriage of materials	L.S.	26.000	1.78	46.28
	LABOUR:				
0111	Carpenter 1 st class	day	3.800	435.00	1653.00
0114	Beldar	day	4.600	329.00	1513.40
	TOTAL				7909.75
	Add Water Charges @ 1%				79.10
	TOTAL				7988.85
	Add CPOH @ 15%				1198.33
	Cost of 11.16 sqm				9187.18
	Cost of 1 sqm				823.22
	Say				823.20

9.133 Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55 mm thick) having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm, placed @ 610 mm C/C in perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610 mm C/C with fully threaded self-tapping dry wall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200 mm C/C., all complete as per the drawing & directions of engineer-in-charge, the joints of the boards are finished with specially formulated jointing compound and 48 mm wide jointing tape to provide seamless finish.

9.133.3 Gypsum board conforming to IS: 2095 Part - I

9.133.3.1 12.5 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3.66 m x 3.66 m - 11.16 sqm</i>				
	MATERIAL:				
	Glass fibre reinforced gypsum board 12.5 mm thick.				
	= 11.16 sqm				
	Add wastage @ 10% = 1.12 sqm				
	Total = 12.28 sqm				
8717	12.5 mm thick Glass fibre reinforced Gypsum board	sqm	12.280	195.00	2394.60
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	19.660	44.00	865.04
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	9.600	27.00	259.20
8722	Nylon sleeves & wooden screws (40 mm)	each	42.000	2.00	84.00
8723	Counter sunk ribbed head screw 25 mm	100 Nos	176.000	80.00	140.80
9999	Jointing compound	L.S.	20.800	1.78	37.02
7018	Joint tape roll	roll	0.190	135.00	25.65
9999	Sundries i/c rawl plug, scaffolding etc.	L.S.	52.000	1.78	92.56
9999	Carriage of materials	L.S.	26.000	1.78	46.28
	LABOUR:				
0111	Carpenter 1 st class	day	3.800	435.00	1653.00
0114	Beldar	day	4.600	329.00	1513.40
	TOTAL				7111.55
	Add Water Charges @ 1%				71.12
	TOTAL				7182.67
	Add CPOH @ 15%				1077.40
	Cost of 11.16 sqm				8260.07
	Cost of 1 sqm				740.15
	Say				740.15

9.134 Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws:

9.134.1 35 mm thick shutters

9.134.1.1 with ISI marked M.S. pressed butt hinges bright finished of required size

9.134.1.1.1 Second class teak wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 2.16sqm</i>				
	MATERIAL:				
	Second Class Teak wood				
	Styles 4x200x9.5 x3.5cm = 0.0266cum+				
	Top Rail - 1x110.5x9.5x3.5cm =0.0036cum+				
	Lock and bottom rail				
	2x110.5x19.7x3.5cm=0.0152 cum.+				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	+Beadings (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage@ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm				
1190	Second class teak wood in planks	10 cudm	51.400	750.00	3855.00
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.410	840.00	1184.40
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
2204	Carriage of timber	cum	0.051	121.70	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				6514.07
	Add Water Charges @ 1%				65.14
	TOTAL				6579.21
	Add CPOH @ 15%				986.88
	Cost of 2.16 sqm				7566.09
	Cost of 1 sqm				3502.82
	Say				3502.80

9.134.1.1.2 Kiln seasoned and chemically treated hollock wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 2.16sqm</i>				
	MATERIAL:				
	Hollock wood.				
	Styles 4x200x9.5x3.5cm =0.0266cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Grand Total = 0.0514 cum. Say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.400	390.00	2004.60
2204	Carriage of timber	cum	0.051	121.70	6.26
2504	Kiln seasoning of timber	cum	0.051	750.00	38.55
9999	Chemical Treatment Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm	L.S.	8.970	1.78	15.97
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.410	840.00	1184.40

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				4718.19
	Add Water Charges @ 1%				47.18
	TOTAL				4765.37
	Add CPOH @ 15%				714.81
	Cost of 2.16 sqm				5480.18
	Cost of 1 sqm				2537.12
	Say				2537.10

9.134.1.1.3 Kiln seasoned selected class of sheesham wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters</i>				
	<i>2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Sheesham Wood				
	Styles 4 x 200 x 9.5 x 3.5 cm= 0.0266 cum+				
	Top Rail-1x110.5x9.5x3.5cm=0.0036cum+				
	Styles 4x200x9.5x3.5cm = 0.0266cum+				
	Top Rail - 1 x110.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail 2 x110.5x19.7x3.5 cm = 0.0152 cum. +				
	Beadings -				
	(2x312+ 2x 150) x(1.2)x(1.2) cm =0.001 cum				
	Total = 0.0464 cum.+				
	add for wastage @ 10% = 0.005 cum.=0.0514 cum.				
	say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.400	650.00	3341.00
2204	Carriage of timber	cum	0.0514	121.70	6.26
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.410	840.00	1184.40
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				6038.62
	Add Water Charges @ 1%				60.39
	TOTAL				6099.01
	Add CPOH @ 15%				914.85
	Cost of 2.16 sqm				7013.86
	Cost of 1 sqm				3247.16
	Say				3247.15

9.134.1.2 With ISI marked stainless steel butt hinges of required size

9.134.1.2.1 Second class teak wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Second class teak wood				
	Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+				
	Top Rail - 1x110.5x9.5x3.5cm =0.0036cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3.5 cm = 0.0152 cum. +				
	Beadings -				
	(2x312+2x 150) x(1.2)x(1.2)cm =0.001 cum				
	Total = 0.0464 cum. +				
	add for wastage @ 10% = 0.005 cum.				
	=0.0514 cum. say 51.4 cudm				
1190	Second class teak wood in planks	10 cudm	51.400	750.00	3855.00
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.410	840.00	1184.40
8220	Stainless steel butt hinges (heavyweight) 100x60 x2.5mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
2204	Carriage of timber	cum	0.051	121.70	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				6985.47
	Add Water Charges @ 1%				69.85
	TOTAL				7055.32
	Add CPOH @ 15%				1058.30
	Cost of 2.16 sqm				8113.62
	Cost of 1 sqm				3756.31
	Say				3756.30

9.134.1.2.2 Kiln seasoned and chemically treated hollock wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Hollock wood				
	Styles 4 x 200 x 9.5 x 3.5 cm =0.0266 cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036 cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3.5 cm = 0.0152 cum.+				
	Beadings -				
	(2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				
	Total = 0.0464 cum. +				
	add for wastage @ 10% = 0.005 cum.				
	=0.0514 cum. say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.400	390.00	2004.60
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
9999	Chemical treatment				
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm	L.S.	8.970	1.78	15.97
8737	Stainless steel wire guage (Grade-304) aperture				
	1.4 mm and 0.50 mm dia wire	sqm	1.410	840.00	1184.40
8220	Stainless steel butt hinges (heavyweight)				
	00x60x2.5 mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS :				
	12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
2204	Carriage of timber	cum	0.0514	121.70	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				5189.59
	Add Water Charges @ 1%				51.90
	TOTAL				5241.49
	Add CPOH @ 15%				786.22
	Cost of 2.16 sqm				6027.71
	Cost of 1 sqm				2790.61
	Say				2790.60

9.134.1.2.3 Kiln seasoned selected class of sheesham wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Sheesham wood				
	Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3.5 cm =0.0152 cum.				
	Beadings -				
	(2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				
	Total = 0.0464 cum. +				
	add for wastage @ 10% = 0.005 cum.				
	=0.0514 cum. say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.400	650.00	3341.00
2504	Kiln seasoning of timber	cum	0.0514	750.00	38.55
	Wire guage 2x160x40cm=1.28 sqm.+Add wastage				
	@ 10 % = 0.13 sqmTotal = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture	sqm	1.410	840.00	1184.40
	1.4 mm and 0.50 mm dia wire				
8220	Stainless steel butt hinges (heavyweight)	10 Nos	6.000	690.00	414.00
	100x60x2.5 mm IS : 12817 marked				
8218	Stainless steel butt hinges 50x37x1.5 mm IS :	10 Nos	2.000	190.00	38.00
	12817 marked				
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
2204	Carriage of timber	cum	0.0514	121.70	6.26
	LABOUR:				
0111	Carpenter 1 st class	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.050	329.00	345.45
0130	Mistry	day	0.105	435.00	45.68
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				6510.02
	Add Water Charges @ 1%				65.10
	TOTAL				6575.12
	Add CPOH @ 15%				986.27
	Cost of 2.16 sqm				7561.39
	Cost of 1 sqm				3500.64
	Say				3500.65

9.134.2 30 mm thick shutters**9.134.2.1 with ISI marked M.S. pressed butt hinges bright finished of required size****9.134.2.1.1 Second class teak wood**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Teak wood (2nd class)				
	Styles 4 x 209 x 9.5 x3 cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3 cm = 0.013cum.+				
	Beadings -				
	(2x312+2x 150) x(1.2)x(1.2) cm =0.001cum				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004cum.				
	=0.44 cum.				
	say 44 cudm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1190	Second class teak wood in planks	10 cudm	44.000	750.00	3300.00
2204	Carriage of timber	cum	0.044	121.70	5.35
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage@ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.410	840.00	1184.40
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				5856.13
	Add Water Charges @ 1%				58.56
	TOTAL				5914.69
	Add CPOH @ 15%				887.20
	Cost of 2.16 sqm				6801.89
	Cost of 1 sqm				3149.02
	Say				3149.00

9.134.2.1.2 Kiln seasoned and chemically treated hollock wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Hollock wood				
	Styles 4 x 209 x 9.5 x 3 cm =0.023 cum+				
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum +				
	Lock and bottom rail				
	2 x 110.5x19.7x3 cm = 0.013 cum.+				
	Beadings -				
	(2x312+2x 150) x(1.2)x(1.2) cm =0.001cum				
	Total = 0.040 cum. +				
	Add for wastage @ 10%=0.004cum.				
	=0.44 cum. say 44 cudm				
2505	Hollock wood in planks	10 cudm	44.000	390.00	1716.00
2204	Carriage of timber	cum	0.044	121.70	5.35
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
9999	Chemical treatmentWire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	L.S.	8.970	1.78	15.978737
	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.410	840.00	1184.40

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				4321.10
	Add Water Charges @ 1%				43.21
	TOTAL				4364.31
	Add CPOH @ 15%				654.65
	Cost of 2.16 sqm				5018.96
	Cost of 1 sqm				2323.59
	Say				2323.60

9.134.2.1.3 Kiln seasoned selected class of sheesham wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Sheesham wood				
	Styles 4 x 209 x 9.5 x 3 cm= 0.023 cum+				
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3 cm = 0.013 cum.+				
	Beadings				
	(2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004cum.				
	=0.44 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.000	650.00	2860.00
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
2204	Carriage of timber	cum	0.044	121.70	5.35
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage@ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.410	840.00	1184.40
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	2.000	55.00	11.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				5449.13
	Add Water Charges @ 1%				54.49
	TOTAL				5503.62
	Add CPOH @ 15%				825.54
	Cost of 2.16 sqm				6329.16
	Cost of 1 sqm				2930.17
	Say				2930.15

9.134.2.2 With ISI marked stainless steel butt hinges of required size

9.134.2.2.1 Second class teak wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Teak wood (2nd class)				
	Styles 4 x 209 x 9.5 x3 cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3cm =0.003cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3cm =0.0152 cum. +				
	Beadings -				
	(2x312+2x 150) x(1.2)x(1.2) cm=0.001 cum				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004 cum.				
	=0.044 cum. say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.000	750.00	3300.00
2204	Carriage of timber	cum	0.044	121.70	5.35
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture				
	1.4 mm and 0.50 mm dia wire	sqm	1.410	840.00	1184.40
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm				
	IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS :				
	12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				6327.53
	Add Water Charges @ 1%				63.28
	TOTAL				6390.81
	Add CPOH @ 15%				958.62
	Cost of 2.16 sqm				7349.43
	Cost of 1 sqm				3402.51
	Say				3402.50

9.134.2.2.2 Kiln seasoned and chemically treated hollock wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Hollock wood Styles				
	4 x 209 x 9.5 x 3.5 cm =				
	0.023 cum+				
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3 cm = 0.013 cum.+				
	Beatings -				
	(2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004 cum.				
	=0.044 cum.say 44 cudm				
2505	Hollock wood in planks	10 cudm	44.000	390.00	1716.00
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
9999	Chemical treatment	L.S.	8.970	1.78	15.97
2204	Carriage of timber	cum	0.044	121.70	5.35
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture	sqm	1.410	840.00	1184.40
	1.4 mm and 0.50 mm dia wire				
8220	Stainless steel butt hinges (heavyweight)	10 Nos	6.000	690.00	414.00
	100x60x2.5 mm IS : 12817 marked				
8218	Stainless steel butt hinges 50x37x1.5 mm IS :	10 Nos	2.000	190.00	38.00
	12817 marked				
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				4792.50
	Add Water Charges @ 1%				47.92
	TOTAL				4840.42
	Add CPOH @ 15%				726.06
	Cost of 2.16 sqm				5566.48
	Cost of 1 sqm				2577.07
	Say				2577.05

9.134.2.2.3 Kiln seasoned selected class of sheesham wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Sheesham wood				
	Styles 4 x 209 x 9.5 x 3 cm= 0.023 cum+				
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3 cm =0.013 cum.+				
	Beatings -				
	(2x312+2x 150) x(1.2)x(1.2) cm =0.001cum				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.040 cum.+ Add for wastage @ 10% = 0.004cum. =0.044 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.000	650.00	2860.00
2504	Kiln seasoning of timber	cum	0.044	750.00	33.00
2204	Carriage of timber	cum	0.044	121.70	5.35
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.410	840.00	1184.40
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 Nos	6.000	690.00	414.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	2.000	190.00	38.00
8211	Stainless steel screws 40 mm	100 Nos	48.000	208.00	99.84
8214	Stainless steel screws 20 mm	100 Nos	8.000	151.00	12.08
	LABOUR:				
0111	Carpenter 1 st class	day	1.200	435.00	522.00
0112	Carpenter 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.000	329.00	329.00
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries	L.S.	33.800	1.78	60.16
	TOTAL				5920.53
	Add Water Charges @ 1%				59.21
	TOTAL				5979.74
	Add CPOH @ 15%				896.96
	Cost of 2.16 sqm				6876.70
	Cost of 1 sqm				3183.66
	Say				3183.65

9.135 Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.50 mm all complete.

9.135.1 With 2nd class teak wood beading 62X19 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm=1.54sqm.</i> MATERIAL: Wire gauge - 20x60mm mesh 3.2mmwith = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm.				
	Total=1.69 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.690	840.00	1419.60
9999	Carriage of wire gauge	L.S.	1.820	1.78	3.24
	Second class teak wood beading 5mx62mmx19mm=0.0059 cum+ Add wastage @ 10% = 0.00059 cudm. Total=0.00649 cum. Say 6 cudm				
1190	Second class teak wood in planks	10 cudm	6.000	750.00	450.00

2204	Carriage of timber	cum	0.006	121.70	0.73
	LABOUR:				
0112	Carpenter 2nd class	day	0.330	399.00	131.67
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				2122.66
	Add Water Charges @ 1%				21.23
	TOTAL				2143.89
	Add CPOH @ 15%				321.58
	Cost of 1.54 sqm				2465.47
	Cost of 1 sqm				1600.95
	Say				1600.95

9.135.2 With 12 mm mild steel U beading

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm = 1.54sqm.</i>				
	MATERIAL:				
	Wire gauge - 20x60mm mesh 3.2mmwith =				
	1.4x1.1m = 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	Total=1.69 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.690	840.00	1419.60
9999	Carriage of wire gauge	L.S.	1.820	1.78	3.24
7349	12 mm M.S. 'U' beading	metre	5.000	15.00	75.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.330	399.00	131.67
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				1746.93
	Add Water Charges @ 1%				17.47
	TOTAL				1764.40
	Add CPOH @ 15%				264.66
	Cost of 1.54 sqm				2029.06
	Cost of 1 sqm				1317.57
	Say				1317.55

9.136 Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumescent fire seal strip of size 10x4 mm (minimum) alround the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3300/2750mm Door (9.10 metre length)</i>				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermiculite based concrete mix	metre	9.100	1050.00	9555.00
9999	Labour	L.S.	130.000	1.78	231.40
9999	Sundries and carriage	L.S.	4.230	1.78	7.53
	TOTAL				9793.93
	Add Water Charges @ 1%				97.94
	TOTAL				9891.87
	Add CPOH @ 15%				1483.78
	Cost of 9.1 metre				11375.65
	Cost of 1 metre				1250.07
	Say				1250.05

- 9.137 Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/ m2) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge (panneling to be paid for separately).**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3.50 sqm (Door size-1710x2050 mm)</i>				
	MATERIAL:				
8739	Fire rated door shutter made with 16 SWG G.I. sheet (60 minutes) without panel	sqm	3.500	5300.00	18550.00
9999	Labour	L.S.	180.000	1.78	320.40
9999	Sundries and carriage	L.S.	10.000	1.78	17.80
	TOTAL				18888.20
	Add Water Charges @ 1%				188.88
	TOTAL				19077.08
	Add CPOH @ 15%				2861.56
	Cost of 3.5 sqm				21938.64
	Cost of 1 sqm				6268.18
	Say				6268.20

- 9.138 Providing and fixing glazing in fire resistant door shutters, fixed panels, ventilators and partitions etc., with G.I. beading of appropriate size, made out of 20 SWG G.I.sheet (zinc coating not less than 120 gm/ m2), fire resistant sealant, including applying a coat of approved fire resistant primer on G.I. beading etc., complete all as per direction of Engineer-in-charge.**

- 9.138.1 With clear fire resistant glass panes 6 mm thick of approved brand, having minimum 60 minutes fire resistance**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6.36 sqm (Door size 3300/2750mm) (Glazing area)</i>				
	MATERIAL:				
	MATERIAL:				
	Glazing area-2x0.70x2.05=2.87 m2				
	1x1.70x0.60=1.02 m2				
	2x0.69x1.79=2.47 m2				
	Total =6.36 m2				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
8741	Clear fire resistant glass panes 6mm thick (60 minutes) G.I.'U' beading-2x2x0.70=2.80 m 2x2x2.05=8.20 m 2x1x1.70=3.40 m 2x1x0.60=1.20 m 2x2x0.69 =2.76 m 2x2x1.79=7.16 m Total=25.52 m	sqm	6.360	21500.00	136740.00
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/m ²) with ceramic tape of suitable thickness and fire resistant primer coating	metre	25.520	280.00	7145.60
8740	Fire seal Putty	kg	3.000	750.00	2250.00
8743	Matrix Mineral Board 3x25.52m=76.56 meter	metre	76.560	65.00	4976.40
9999	Labour	L.S.	180.000	1.78	320.40
9999	Sundries and carriage	L.S.	10.000	1.78	17.80
	TOTAL				151450.20
	Add Water Charges @ 1%				1514.50
	TOTAL				152964.70
	Add CPOH @ 15%				22944.70
	Cost of 6.36 sqm				175909.40
	Cost of 1 sqm				27658.71
	Say				27658.70

9.139 Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.

Code No	Description	Unit	Quantity	Rate	Amount
	<i>Details of cost for each</i>				
	MATERIAL:				
8744	Panic Bar / latch (Double point)	each	1.000	5200.00	5200.00
	Labour for fixing				
0111	Carpenter 1 st class	day	0.170	435.00	73.95
9999	Sundries (screws and carriage)	L.S.	3.640	1.78	6.48
	TOTAL				5280.43
	Add Water Charges @ 1%				52.80
	TOTAL				5333.23
	Add CPOH @ 15%				799.98
	Cost of each				6133.21
	Say				6133.20

9.140 Providing and fixing plain lining with necessary screws/nuts & bolts/nails, including a coat of approved primer on one face, and fixed on wooden /steel frame work, complete as per direction of Engineer-in-charge (Frame work shall be paid for separately).

9.140.1 12 mm thick commercial ply conforming to IS : 1328 BWR type

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2413	12 mm commercial ply	sqm	11.000	700.00	7700.00
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.000	32.95	329.50 A
9999	Sundries and screws etc.	L.S.	40.100	1.78	71.38

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0156	Carpenter (average)	day	1.280	417.00	533.76
0114	Beldar	day	1.430	329.00	470.47
9999	Sundries and carriage	L.S.	33.560	1.78	59.74
	TOTAL				9164.85
	Add Water Charges @ 1% except on A i.e on (9,164.85 - 329.50 =) 8,835.35				88.35
	TOTAL				9253.20
	Add CPOH @ 15% except on A i.e on (9,253.20 - 329.50 =) 8,923.70				1338.56
	Cost of 10 sqm				10591.76
	Cost of 1 sqm				1059.18
	Say				1059.20

- 9.141 Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (± 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self tapping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door frame of 5 metre</i>				
	MATERIAL:				
8014	Factory made door frame of size 50x47 mm with wall thickness 5 mm made of single piece extruded profile	metre	5.000	500.00	2500.00
	LABOUR:				
0156	Carpenter (average)	day	0.150	417.00	62.55
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	11.650	1.78	20.74
	TOTAL				2632.64\
	Add Water Charges @ 1%				26.33
	TOTAL				2658.97
	Add CPOH @ 15%				398.85
	Cost of 5 metre				3057.82
	Cost of 1 metre				611.56
	Say				611.55

- 9.142 35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mmx 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitred cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.**

9.142.1 Non decorative finish (matt finish)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 2.20x1.08m</i>				
	<i>=2.38 sqm</i>				
	MATERIAL:				
8735	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile non decorative finished (Matt finished)	sqm	2.380	2150.00	5117.00
8100	Powder coated M.S. butt hinges 100 mm X58 mm X 1.9 mm	10 Nos	4.000	90.00	36.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	30.350	1.78	54.02
	TOTAL				5532.94
	Add Water Charges @ 1%				55.33
	TOTAL				5588.27
	Add CPOH @ 15%				838.24
	Cost of 2.38 sqm				6426.51
	Cost of 1 sqm				2700.21
	Say				2700.20

9.142.2 Decorative finish (wood grained finish)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 2.20x1.08m=2.38 sqm</i>				
	MATERIAL:				
8736	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (wood grain finished)	sqm	2.380	2600.00	6188.00
8100	Powder coated M.S. butt hinges 100 mm X 58 mm X 1.9 mm	10 Nos	4.000	90.00	36.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	48.000	52.00	24.96
0640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	8.000	32.00	2.56
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	30.350	1.78	54.02
	TOTAL				6603.94
	Add Water Charges @ 1%				66.04
	TOTAL				6669.98
	Add CPOH @ 15%				1000.50
	Cost of 2.38 sqm				7670.48
	Cost of 1 sqm				3222.89
	Say				3222.90

- 9.143 Providing and Fixing factory made uPVC door frame, made of uPVC extruded sections, of size 65 mm x 55 mm with wall thickness 2.0 mm (± 0.2 mm) , corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (±0.2 mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fastners, all complete as per manufacturer's specification and direction of Engineer-in-charge.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
8745	65 mm x 55 mm x 2 mm thick Factory made door frame of PVC extruded section in white, grey or wooden finish	metre	5.000	340.00	1700.00
	LABOUR:				
0156	Carpenter (average)	day	0.150	417.00	62.55
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	4.680	1.78	8.33
	TOTAL				1820.23
	Add Water Charges @ 1%				18.20
	TOTAL				1838.43
	Add CPOH @ 15%				275.76
	Cost of 5 metre				2114.19
	Cost of 1 metre				422.84
	Say				422.85

- 9.144 Providing and fixing 37 mm thick factory made PVC door shutter, styles and rails made of PVC hollow section of size 100 mm x 37 mm with wall thickness 2 mm (± 0.2 mm), with inbuilt bead on one side, styles and rails mitred cut and joint at the corners by means of 2 nos of plastic brackets of size 75 mm x 220 mm at each corner and stainless steel screws, reinforcing the hinge side of style by inserting PVC profile of size 28 mm x 30 mm, with wall thickness 2 mm (± 0.2 mm). Lockrail of size 100 mm x 37 mm, wall thickness 2 mm (± 0.2 mm) will be fixed to the vertical styles. Providing with PVC snapfit beads and panel of size 100 mm x 20 mm, and inserting 2 nos tie bar of 6 mm dia and fastening with nuts and washers complete, all as per manufacturer's specification and direction of Engineer-in-charge.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8746	37 mm thick Factory made shutter with style, rails and panels of PVC extruded section in white or grey finish i/c carriage	sqm	2.380	2400.00	5712.00
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				6046.64
	Add Water Charges @ 1%				60.47
	TOTAL				6107.11
	Add CPOH @ 15%				916.07
	Cost of 2.38 sqm				7023.18
	Cost of 1 sqm				2950.92
	Say				2950.90

- 9.145 Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (± 0.2 mm). Both verticals sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (± 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineer-in-charge.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
8747	75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVC extruded section in white, grey or wooden finish	metre	5.000	380.00	1900.00
	LABOUR:				
0156	Carpenter (average)	day	0.150	417.00	62.55
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	4.680	1.78	8.33
	TOTAL				2020.23
	Add Water Charges @ 1%				20.20
	TOTAL				2040.43
	Add CPOH @ 15%				306.06
	Cost of 5 metre				2346.49
	Cost of 1 metre				469.30
	Say				469.30

- 9.146 Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m</i>				
	= 2.38 sqm				
	MATERIAL:				
8748	37 mm thick Factory made fusion welded shutter with style, rails and panels of PVC extruded section in wooden finish	sqm	2.380	2600.00	6188.00
	LABOUR:				
0156	Carpenter (average)	day	0.400	417.00	166.80
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	20.360	1.78	36.24
	TOTAL				6522.64
	Add Water Charges @ 1%				65.23
	TOTAL				6587.87
	Add CPOH @ 15%				988.18
	Cost of 2.38 sqm				7576.05
	Cost of 1 sqm				3183.21
	Say				3183.20

9.147 Providing and Fixing factory made uPVC white colour casement/sliding window/ door, made of extruded profiles. Profiles of frames and sash will be mitered cut and fusion welded at all corners, including drilling of holes for fixing hardware and drainage of water etc., making arrangement for fixing of hardware, EPDM gasket, 1.2 ± 0.2 mm thick galvanised steel profile to be inserted in required profile, frame will be fixed to the wall with 8 mm x 100 mm long fasteners, all complete as per direction of Engineer-in-charge (Glazing, hardware hinges and fitting etc. to be paid separately). Note:- Each member of window to be measured separately with clear length.

9.147.1 Casement Window (Outward/Inward opening) with hinge System

9.147.1.1 Frame (50 mm x 50 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8760	uPVC extruded profile casement window Frame (50 mm x 50 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.050	175.00	183.75
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.050	60.00	63.00
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.050	25.00	26.25
	LABOUR:for fabrication				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.100	329.00	32.90
9999	Sundries and carriage of materials	L.S.	5.000	1.78	8.90
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.000	1.78	17.80
	TOTAL				376.10
	Add Water Charges @ 1%				3.76
	TOTAL				379.86
	Add CPOH @ 15%				56.98
	Cost of 1 metre				436.84
	Say				436.85

9.147.1.2 Sash (Style and Rail) (62 mm x 34 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8761	uPVC extruded profile casement window sash (Style and Rail) (62 mm x 34 mm) Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	160.00	168.00
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	1.050	60.00	63.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre				
7390	Neoprene/EPDM rubber gasket	metre	1.050	25.00	26.25
	Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre				
	LABOUR:for fabrication				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.100	329.00	32.90
9999	Sundries and carriage of materials	L.S.	5.000	1.78	8.90
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.000	1.78	17.80
	TOTAL				360.35
	Add Water Charges @ 1%				3.60
	TOTAL				363.95
	Add CPOH @ 15%				54.59
	Cost of 1 metre				418.54
	Say				418.55

9.147.1.3 Mullion (intermediate Section) (66 mm x 50 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 metre				
	MATERIAL:				
8762	uPVC extruded profile casement window mullion (intermediate section) (66 mm x 50 mm)	metre	1.050	195.00	204.75
	Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre				
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	1.050	60.00	63.00
	Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre				
7390	Neoprene/EPDM rubber gasket	metre	1.050	25.00	26.25
	Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre				
	LABOUR:for fabrication				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.100	329.00	32.90
9999	Sundries and carriage of materials	L.S.	5.000	1.78	8.90
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.000	1.78	17.80
	TOTAL				397.10
	Add Water Charges @ 1%				3.97
	TOTAL				401.07
	Add CPOH @ 15%				60.16
	Cost of 1 metre				461.23
	Say				461.25

9.147.1.4 'T' Profile (one vertical length in between two shutters) (24 mm x 34.5 mm)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8763	uPVC extruded profile casement window 'T' profile (one vertical length in between two shutters) (24 mm x 34.5 mm) Qty = 1.00 Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.050	54.00	56.70
	LABOUR:for fabrication				
0111	Carpenter 1 st class	day	0.020	435.00	8.70
0114	Beldar	day	0.020	329.00	6.58
9999	Sundries and carriage of materials	L.S.	3.000	1.78	5.34
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.000	1.78	8.90
	TOTAL				86.22
	Add Water Charges @ 1%				0.86
	TOTAL				87.08
	Add CPOH @ 15%				13.06
	Cost of 1 metre				100.14
	Say				100.15
9.147.1.5 Glazing bead (12 mm x 18 mm)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8764	uPVC extruded profile casement window glazing bead (12 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	54.00	56.70
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	25.00	26.25
	LABOUR:for fabrication				
0111	Carpenter 1 st class	day	0.020	435.00	8.70
0114	Beldar	day	0.020	329.00	6.58
9999	Sundries and carriage of materials	L.S.	3.000	1.78	5.34
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.000	1.78	8.90
	TOTAL				112.47
	Add Water Charges @ 1%				1.12
	TOTAL				113.59
	Add CPOH @ 15%				17.04
	Cost of 1 metre				130.63
	Say				130.65
9.147.2 Casement Window (With friction hinge & outward opening)					
9.147.2.1 Casement Frame (67 mm x 62 mm)					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8765	uPVC extruded profile casement window Frame (67mm x 62 mm) Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	245.00	257.25

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre LABOUR:for fabrication	metre	1.050	60.00	63.00
0111	Carpenter 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.100	329.00	32.90
9999	Sundries and carriage of materials	L.S.	5.000	1.78	8.90
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.000	1.78	17.80
	TOTAL				423.35
	Add Water Charges @ 1%				4.23
	TOTAL				427.58
	Add CPOH @ 15%				64.14
	Cost of 1 metre				491.72
	Say				491.70

9.147.2.2 Casement Window Sash/Mullion (67mm x 75mm) (style, rail and intermediate section)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i> MATERIAL:				
8766	uPVC extruded profile casement Window Sash/Mullion (67 mm x 75 mm)(Style,rail and intermediate section) Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	275.00	288.75
8775	Steel Galvanised tubular reinforcement for uPVC door / window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre LABOUR:for fabrication	metre	1.050	60.00	63.00
0111	Carpenter 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.100	329.00	32.90
9999	Sundries and carriage of materials	L.S.	5.000	1.78	8.90
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.000	1.78	17.80
	TOTAL				454.85
	Add Water Charges @ 1%				4.55
	TOTAL				459.40
	Add CPOH @ 15%				68.91
	Cost of 1 metre				528.31
	Say				528.30

9.147.2.3 Casement Glazing bead (35 mm x 18 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i> MATERIAL:				
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	90.00	94.50
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05	metre	1.050	25.00	26.25

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	= 1.05 metre				
	LABOUR:for fabrication				
0111	Carpenter 1 st class	day	0.020	435.00	8.70
0114	Beldar	day	0.020	329.00	6.58
9999	Sundries and carriage of materials	L.S.	3.000	1.78	5.34
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.000	1.78	8.90
	TOTAL				150.27
	Add Water Charges @ 1%				1.50
	TOTAL				151.77
	Add CPOH @ 15%				22.77
	Cost of 1 metre				174.54
	Say				174.55

9.147.3 Sliding Window (Two Track, 2/4 Shutters)

9.147.3.1 Two Track Sliding Frame (67 mm x 52 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8768	uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm)	metre	1.050	258.00	270.90
	Qty = 1.00 +				
	Add wastage @ 5% = 0.05= 1.05 metre				
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	1.050	60.00	63.00
	Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre				
8772	Aluminium Track on bottom rail for uPVC window	metre	2.100	28.00	58.80
	Qty = 2.00 +				
	Add wastage @ 5% = 0.1= 2.10 metre				
	LABOUR:for fabrication				
0111	Carpenter 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.100	329.00	32.90
9999	Sundries and carriage of materials	L.S.	5.000	1.78	8.90
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.000	1.78	26.70
	TOTAL				504.70
	Add Water Charges @ 1%				5.05
	TOTAL				509.75
	Add CPOH @ 15%				76.46
	Cost of 1 metre				586.21
	Say				586.20

9.147.3.2 Sliding window Sash (60 mm x 44 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8769	uPVC extruded profile Sliding window Sash (60 mm x 44 mm)	metre	1.050	240.00	252.00
	Qty = 1.00 +				
	Add wastage @ 5% = 0.05= 1.05 metre				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
8775	Steel Galvanised tubular reinforcement for uPVC door / window Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	60.00	63.00
8773	Wool Pine for uPVC window Qty = 2.00 + Add wastage @ 5% = 0.1 = 2.10 metre LABOUR:for fabrication	metre	2.100	20.00	42.00
0111	Carpenter 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.100	329.00	32.90
9999	Sundries and carriage of materials	L.S.	5.000	1.78	8.90
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.000	1.78	26.70
	TOTAL				469.00
	Add Water Charges @ 1%				4.69
	TOTAL				473.69
	Add CPOH @ 15%				71.05
	Cost of 1 metre				544.74
	Say				544.75

9.147.3.3 Sliding Interlock for Window (one vertical length in each shutter)(45.5 mm x 28 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8770	uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.050	53.00	55.65
8773	Wool Pine for uPVC window Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre LABOUR:for fabrication	metre	1.050	20.00	21.00
0111	Carpenter 1 st class	day	0.050	435.00	21.75
0114	Beldar	day	0.050	329.00	16.45
9999	Sundries and carriage of materials	L.S.	3.000	1.78	5.34
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.000	1.78	8.90
	TOTAL				129.09
	Add Water Charges @ 1%				1.29
	TOTAL				130.38
	Add CPOH @ 15%				19.56
	Cost of 1 metre				149.94
	Say				149.95

9.147.3.4 Sliding Glazing bead (35 mm x 18 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	90.00	94.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre LABOUR:for fabrication	metre	1.050	25.00	26.25
0111	Carpenter 1 st class	day	0.020	435.00	8.70
0114	Beldar	day	0.020	329.00	6.58
9999	Sundries and carriage of materials	L.S.	3.000	1.78	5.34
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.000	1.78	8.90
	TOTAL				150.27
	Add Water Charges @ 1%				1.50
	TOTAL				151.77
	Add CPOH @ 15%				22.77
	Cost of 1 metre				174.54
	Say				174.55

9.147.4 Sliding Door (Two Track, 2/4 Shutters)

9.147.4.1 Two Track Sliding Frame (67 mm x 52 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8768	uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm) Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	258.00	270.90
8775	Steel Galvanised tubular reinforcement for uPVC door / window Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	60.00	63.00
8772	Aluminium Track on bottom rail for uPVC window Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre LABOUR:for fabrication	metre	1.050	28.00	29.40
0111	Carpenter 1 st class	day	0.100	435.00	43.50
0114	Beldar	day	0.100	329.00	32.90
9999	Sundries and carriage of materials	L.S.	10.000	1.78	17.80
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.000	1.78	26.70
	TOTAL				484.20
	Add Water Charges @ 1%				4.84
	TOTAL				489.04
	Add CPOH @ 15%				73.36
	Cost of 1 metre				562.40
	Say				562.40

9.147.4 Sliding Door (Two Track, 2/4 Shutters)**9.147.4.2 Sliding Door Sash (80 mm x 44 mm)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8771	uPVC extruded profile Sliding Door Sash (80 mm x 44 mm) Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	300.00	315.00
8775	Steel Galvanised tubular reinforcement for uPVC door / window Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	60.00	63.00
8773	Wool Pine for uPVC window Qty = 2.00 + Add wastage @ 5% = 0.1= 2.10 metre	metre	2.100	20.00	42.00
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	25.00	26.25
	LABOUR:for fabrication				
0111	Carpenter 1 st class	day	0.140	435.00	60.90
0114	Beldar	day	0.140	329.00	46.06
9999	Sundries and carriage of materials	L.S.	5.000	1.78	8.90
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.000	1.78	26.70
	TOTAL				588.81
	Add Water Charges @ 1%				5.89
	TOTAL				594.70
	Add CPOH @ 15%				89.20
	Cost of 1 metre				683.90
	Say				683.90

9.147.4 Sliding Door (Two Track, 2/4 Shutters)**9.147.4.3 Sliding Interlock for Door (one vertical length in each shutter) (45.5 mm x 28 mm)**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8770	uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.050	53.00	55.65
8773	Wool Pine for uPVC window Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	20.00	21.00
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.050	435.00	21.75
0114	Beldar	day	0.050	329.00	16.45

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries and carriage of materials	L.S.	3.000	1.78	5.34
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.000	1.78	8.90
	TOTAL				129.09
	Add Water Charges @ 1%				1.29
	TOTAL				130.38
	Add CPOH @ 15%				19.56
	Cost of 1 metre				149.94
	Say				149.95

9.147.4.4 Sliding Glazing bead (35 mm x 18 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	90.00	94.50
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05= 1.05 metre	metre	1.050	25.00	26.25
	LABOUR:for fabrication				
0111	Carpenter 1 st class	day	0.020	435.00	8.70
0114	Beldar	day	0.020	329.00	6.58
9999	Sundries and carriage of materials	L.S.	3.000	1.78	5.34
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.000	1.78	8.90
	TOTAL				150.27
	Add Water Charges @ 1%				1.50
	TOTAL				151.77
	Add CPOH @ 15%				22.77
	Cost of 1 metre				174.54
	Say				174.55

9.148 Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/ top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge.

9.148.1 200 x 19 x 1.9 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	10.000	250.00	2500.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.000	32.00	12.80
9999	Carriage	L.S.	2.730	1.78	4.86
0112	Carpenter 2nd class	day	0.140	399.00	55.86

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				2619.58
	Add Water Charges @ 1%				26.20
	TOTAL				2645.78
	Add CPOH @ 15%				396.87
	Cost of 10 nos				3042.65
	Cost of each				304.27
	Say				304.25

9.148.2 250 x 19 x 1.9 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	10.000	300.00	3000.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.000	32.00	12.80
9999	Carriage	L.S.	2.730	1.78	4.86
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				3119.58
	Add Water Charges @ 1%				31.20
	TOTAL				3150.78
	Add CPOH @ 15%				472.62
	Cost of 10 nos				3623.40
	Cost of each				362.34
	Say				362.35

9.148.3 300 x 19 x 1.9 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8757	Stainless steel friction hinge of size 300 mm x 19 x 1.9 mm for uPVC windows	each	10.000	380.00	3800.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.000	32.00	12.80
9999	Carriage	L.S.	2.730	1.78	4.86
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				3919.58
	Add Water Charges @ 1%				39.20
	TOTAL				3958.78
	Add CPOH @ 15%				593.82
	Cost of 10 nos				4552.60
	Cost of each				455.26
	Say				455.25

9.148.4 350 x 19 x 1.9 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8758	Stainless steel friction hinge of size 350 mm x 19 x 1.9 mm for uPVC windows	each	10.000	440.00	4400.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.000	32.00	12.80
9999	Carriage	L.S.	2.730	1.78	4.86

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				4519.58
	Add Water Charges @ 1%				45.20
	TOTAL				4564.78
	Add CPOH @ 15%				684.72
	Cost of 10 nos				5249.50
	Cost of each				524.95
	Say				524.95

9.148.5 400 x 19 x 1.9 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8759	Stainless steel friction hinge of size 400 mm x 19 x 1.9 mm for uPVC windows	each	10.000	550.00	5500.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.000	32.00	12.80
9999	Carriage	L.S.	2.730	1.78	4.86
0112	Carpenter 2nd class	day	0.140	399.00	55.86
0114	Beldar	day	0.140	329.00	46.06
	TOTAL				5619.58
	Add Water Charges @ 1%				56.20
	TOTAL				5675.78
	Add CPOH @ 15%				851.37
	Cost of 10 nos				6527.15
	Cost of each				652.72
	Say				652.70

9.149 Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	10.000	180.00	1800.00
9999	Carriage	L.S.	4.420	1.78	7.87
9999	Sundries (Screws)	L.S.	3.000	1.78	5.34
	LABOUR:				
0156	Carpenter (average)	day	0.125	417.00	52.12
	TOTAL				1865.33
	Add Water Charges @ 1%				18.65
	TOTAL				1883.98
	Add CPOH @ 15%				282.60
	Cost of 10 nos				2166.58
	Cost of each				216.66
	Say				216.65

9.150 Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8751	Zinc alloy (white powder coated) Touch Lock for uPVC windows	each	10.000	120.00	1200.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage	L.S.	4.420	1.78	7.87
9999	Sundries (Screws)	L.S.	3.000	1.78	5.34
	LABOUR:				
0156	Carpenter (average)	day	0.125	417.00	52.12
	TOTAL				1265.33
	Add Water Charges @ 1%				12.65
	TOTAL				1277.98
	Add CPOH @ 15%				191.70
	Cost of 10 nos				1469.68
	Cost of each				146.97
	Say				146.95

9.151 Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8752	Zinc alloy rollers for uPVC windows	each	10.000	55.00	550.00
9999	Carriage	L.S.	4.420	1.78	7.87
9999	Sundries (Screws)	L.S.	3.000	1.78	5.34
	LABOUR:				
0156	Carpenter (average)	day	0.125	417.00	52.12
	TOTAL				615.33
	Add Water Charges @ 1%				6.15
	TOTAL				621.48
	Add CPOH @ 15%				93.22
	Cost of 10 nos				714.70
	Cost of each				71.47
	Say				71.45

9.152 Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8753	Zinc alloy rollers for uPVC door	each	10.000	90.00	900.00
9999	Carriage	L.S.	4.420	1.78	7.87
9999	Sundries (Screws)	L.S.	3.000	1.78	5.34
	LABOUR:				
0156	Carpenter (average)	day	0.125	417.00	52.12
	TOTAL				965.33
	Add Water Charges @ 1%				9.65
	TOTAL				974.98
	Add CPOH @ 15%				146.25
	Cost of 10 nos				1121.23
	Cost of each				112.12
	Say				112.10

9.153 Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8754	Zinc alloy (white powder coated) casement lock for uPVC windows	each	10.000	110.00	1100.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage	L.S.	4.420	1.78	7.87
9999	Sundries (Screws)	L.S.	3.000	1.78	5.34
0156	LABOUR: Carpenter (average)	day	0.125	417.00	52.12
	TOTAL				1165.33
	Add Water Charges @ 1%				11.65
	TOTAL				1176.98
	Add CPOH @ 15%				176.55
	Cost of 10 nos				1353.53
	Cost of each				135.35
	Say				135.35

- 9.154 Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.4x2.4 m panel=5.76m² or 58.35 Kg</i>				
	MATERIAL:				
	M.S.Pipe section @ 10.13 kg/sqm=58.35 Kg+				
	Add 5% wastage = 2.92 Kg				
	Total = 61.27 Kg				
4009	Mild steel tubes hot finished welded type	kilogram	61.270	55.00	3369.85
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	20.000	20.00	400.00
	Steel primer 5 x 2 x 2.40 x 0.05 x 4 = 4.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	4.800	27.00	129.60 A
	LABOUR:				
0116	Fitter (grade 1)	day	0.400	435.00	174.00
0103	Blacksmith 2nd class	day	0.530	399.00	211.47
0114	Beldar	day	1.230	329.00	404.67
0100	Bandhani	day	0.060	363.00	21.78
9999	Sundries	L.S.	33.560	1.78	59.74
	TOTAL				4771.11
	Add Water Charges @ 1% except on A i.e on (4,771.11 - 129.60 =) 4,641.51				46.42
	TOTAL				4817.53
	Add CPOH @ 15% except on A i.e on (4,817.53 - 129.60 =) 4,687.93				703.19
	Cost of 58.35 kg				5520.72
	Cost of 1 kg				94.61
	Say				94.60

- 9.155 Providing and fixing panelling or paneling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebated to be measured). Panelling for panelled and glazed shutters 25mm to 40mm thick:Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.66 sqm</i>				
	Detail of cost for a door with 2/3rd paneling.				
	200 x 108 cm = 2.16 sqm				
	Pannel area 4x45.1x36.55cm =0.66 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
	Both side laminated 12mm thick				
	MDF Board 4x47.2x38.65 cm = 0.73 sqm				
	Adding 10% wastage= 0.07 sqm				
	Total= 0.80 sqm				
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	0.800	700.00	560.00
9999	Sundries (Carriage of MDF board)	L.S.	1.820	1.78	3.24
	LABOUR:				
0111	Carpenter 1 st class	day	0.570	435.00	247.95
9999	Sundries	L.S.	4.420	1.78	7.87
	TOTAL				819.06
	Add Water Charges @ 1%				8.19
	TOTAL				827.25
	Add CPOH @ 15%				124.09
	Cost of 0.66 sqm				951.34
	Cost of 1 sqm				1441.42
	Say				1441.40

9.156 Providing and fixing Pre -laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately).

9.156.1 Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 7.00 sqm				
	Detail of cost for 350x200 cm = 7sqm				
	MATERIAL:				
	12 mm thick both side laminated board				
	= 7.00 sqm				
	Add for wastage @5% = 0.35 sqm				
	Total= 7.35 sqm				
2484	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	7.350	700.00	5145.00
9999	Sundries (Carriage of MDF board)	L.S.	13.520	1.78	24.07
9999	Sundries and screws	L.S.	26.910	1.78	47.90
	LABOUR:				
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				5905.07
	Add Water Charges @ 1%				59.05
	TOTAL				5964.12
	Add CPOH @ 15%				894.62
	Cost of 7.00 sqm				6858.74
	Cost of 1 sqm				979.82
	Say				979.80

9.156.2 Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 7.00 sqm				
	Detail of cost for 350x200 cm = 7sqm				
	MATERIAL:				
	18 mm thick both side laminated board				
	= 7.00 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add for wastage @5% = 0.35 sqm				
	Total= 7.35 sqm				
2485	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	7.350	750.00	5512.50
9999	Sundries (Carriage of MDF board)	L.S.	19.760	1.78	35.17
9999	Sundries and screws	L.S.	26.910	1.78	47.90
	LABOUR:				
0112	Carpenter 2nd class	day	0.900	399.00	359.10
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				6283.67
	Add Water Charges @ 1%				62.84
	TOTAL				6346.51
	Add CPOH @ 15%				951.98
	Cost of 7.00 sqm				7298.49
	Cost of 1 sqm				1042.64
	Say				1042.65

- 9.157 Providing and fixing Pre-laminated medium density fibre board IS: 14587:1998 marked, with one side decorative lamination other side balancing lamination Grade-I(exterior grade) in shelves with screws and fittings wherever required, edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand (fittings to be paid separately).**
- 9.157.1 Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.60 sqm</i>				
	Detail of cost for 4 Nos. 75x20 cm shelves = 0.60 sqm				
	MATERIAL:				
	18 mm Thick MDF Board out side laminated = 0.60 sqm				
	Add wastage @ 5% = 0.03 sqm				
	Total= 0.63 sqm				
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	0.630	875.00	551.25
	PVC edge bending tape 2.00 mm thick 4X0.75 =3.00 metre				
2489	PVC edge bending tape 2.00 mm thick	metre	3.000	30.00	90.00
9999	Sundries (Carriage of MDF board)	L.S.	0.910	1.78	1.62
	LABOUR:				
0112	Carpenter 2nd class	day	0.110	399.00	43.89
0114	Beldar	day	0.060	329.00	19.74
9999	Sundries and screws	L.S.	7.800	1.78	13.88
	TOTAL				720.38
	Add Water Charges @ 1%				7.20
	TOTAL				727.58
	Add CPOH @ 15%				109.14
	Cost of 0.60 sqm				836.72
	Cost of 1 sqm				1394.53
	Say				1394.55

9.157.2 Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.60 sqm</i>				
	Detail of cost for 4 Nos. 75x20 cm shelves				
	= 0.60 sqm				
	MATERIAL:				
	25 mm Thick MDF Board outside laminated				
	= 0.60 sqm				
	Add wastage @ 5% = 0.03 sqm				
	Total= 0.63 sqm				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	0.630	1220.00	768.60
	PVC edge bending tape 2.00 mm thick 4X0.75 =3.00 metre				
2489	PVC edge bending tape 2.00 mm thick	metre	3.000	30.00	90.00
9999	Sundries (Carriage of MDF board)	L.S.	1.820	1.78	3.24
	LABOUR:				
0112	Carpenter 2nd class	day	0.110	399.00	43.89
0114	Beldar	day	0.060	329.00	19.74
9999	Sundries and screws	L.S.	7.800	1.78	13.88
	TOTAL				939.35
	Add Water Charges @ 1%				9.39
	TOTAL				948.74
	Add CPOH @ 15%				142.31
	Cost of 0.60 sqm				1091.05
	Cost of 1 sqm				1818.42
	Say				1818.40

9.158 Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-laminated one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. complete.

9.158.1 12 mm thick.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.00 sqm</i>				
	Detail of cost for 10 sqm				
	MATERIAL:				
	12 mm thick MDF Board Grade-I ,one side laminated				
	= 10.00 sqm				
	Add wastage @10 %=1.00 sqm				
	Total=11.00 sqm				
2487	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	sqm	11.000	650.00	7150.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries (Carriage of MDF board)	L.S.	13.520	1.78	24.07
9999	Sundries and screws	L.S.	26.910	1.78	47.90
	LABOUR:				
0112	Carpenter 2nd class	day	1.280	399.00	510.72
0114	Beldar	day	1.430	329.00	470.47
7048	Rawl plug 50 mm (designation 10 nos)	each	55.000	10.00	550.00
	TOTAL				8753.16
	Add Water Charges @ 1%				87.53
	TOTAL				8840.69
	Add CPOH @ 15%				1326.10
	Cost of 10.00 sqm				10166.79
	Cost of 1 sqm				1016.68
	Say				1016.70

9.158.2 18 mm thick.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.00 sqm</i>				
	Detail of cost for 10 sqm				
	MATERIAL:				
	18 mm thick MDF Board Grade-I ,				
	one side laminated = 10.00 sqm				
	Add wastage @10 % = 1.00 sqm				
	Total= 11.00 sqm				
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	11.000	875.00	9625.00
9999	Sundries (Carriage of MDF board)	L.S.	13.520	1.78	24.07
9999	Sundries and screws	L.S.	26.910	1.78	47.90
	LABOUR:				
0112	Carpenter 2nd class	day	1.280	399.00	510.72
0114	Beldar	day	1.430	329.00	470.47
7048	Rawl plug 50 mm (designation 10 nos)	each	55.000	10.00	550.00
	TOTAL				11228.16
	Add Water Charges @ 1%				112.28
	TOTAL				11340.44
	Add CPOH @ 15%				1701.07
	Cost of 10.00 sqm				13041.51
	Cost of 1 sqm				1304.15
	Say				1304.15

9.158.3 25 mm thick.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.00 sqm</i>				
	Detail of cost for 10 sqm				
	MATERIAL:				
	25 mm thick MDF Board Grade-I ,one side laminated = 10.00 sqm				
	Add wastage @10 % = 1.00 sqm				
	Total= 11.00 sqm				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	11.000	1220.00	13420.00
9999	Sundries (Carriage of MDF board)	L.S.	13.520	1.78	24.07
9999	Sundries and screws	L.S.	26.910	1.78	47.90

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0112	Carpenter 2nd class	day	1.280	399.00	510.72
0114	Beldar	day	1.430	329.00	470.47
7048	Rawl plug 50 mm (designation 10 nos)	each	55.000	10.00	550.00
	TOTAL				15023.16
	Add Water Charges @ 1%				150.23
	TOTAL				15173.39
	Add CPOH @ 15%				2276.01
	Cost of 10.00 sqm				17449.40
	Cost of 1 sqm				1744.94
	Say				1744.95

9.159 Providing and fixing 25mm thick pre-laminated medium density fibre board exterior grade (Grade-I) IS:14587:1998 marked one side decorative and other side balancing lamination for cupboard shutters edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand including ISI marked nickle plated bright finishing M.S. piano hinges IS:3818 marked with necessary screwed complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.20 sqm</i>				
	Detail of Cost for 2.20 sqm (2.20 m x 1.00 m)				
	MATERIAL:				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	2.200	1220.00	2684.00
9999	Sundries(Carriage of MDF board)	L.S.	26.940	1.78	47.95
	PVC edge bending tape 2.00 mm thick 2x(2.20+1.00) = 6.40 metre				
2489	PVC edge bending tape 2.00 mm thick Fitting for a door of 2.20 m x1.00 mTotal = 2(2.20) = 4.40 metre	metre	6.400	30.00	192.00
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.400	42.00	184.80
0639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	125.000	38.00	47.50
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.550	417.00	229.35
0114	Beldar	day	0.550	329.00	180.95
	TOTAL				3566.55
	Add Water Charges @ 1%				35.67
	TOTAL				3602.22
	Add CPOH @ 15%				540.33
	Cost of 2.20 sqm				4142.55
	Cost of 1 sqm				1882.98
	Say				1883.00

9.160 Providing and fixing skirting with Pre-laminated medium density fibre board exterior grade (Grade-I) IS: 14587:1998 marked, (one side decorative and other side balancing lamination) with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand complete.

9.160.1 18 mm thick.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6.00 sqm</i>				
	Detail of cost for skirting 200 mm wide & 30 m long				
	Area 0.20 mx30 m = 6.0 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
	Area 0.20 m x30 m = 6.0 sqm				
	Add wastage @ 10 % =0.60 sqm				
	Total = 6.60 sqm				
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	sqm	6.600	875.00	5775.00
9999	Sundries (Carriage of MDF board)	L.S.	8.110	1.78	14.44
2489	PVC edge bending tape 2.00 mm thick	metre	30.000	30.00	900.00
7048	Rawl plug 50 mm (designation 10 nos)	each	102.000	10.00	1020.00
9999	Sundries(Labour for drilling hole)	L.S.	130.000	1.78	231.40
	LABOUR:				
0112	Carpenter 2nd class	day	0.770	399.00	307.23
0114	Beldar	day	0.860	329.00	282.94
9999	Sundries (screws and sand paper)	L.S.	53.820	1.78	95.80
	TOTAL				8626.81
	Add Water Charges @ 1%				86.27
	TOTAL				8713.08
	Add CPOH @ 15%				1306.96
	Cost of 6.00 sqm				10020.04
	Cost of 1 sqm				1670.01
	Say				1670.00

9.160 Providing and fixing skirting with Pre-laminated medium density fibre board exterior grade (Grade-I) IS: 14587:1998 marked, (one side decorative and other side balancing lamination) with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand complete.

9.160.2 25 mm thick.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 6.00 sqm				
	Detail of cost for skirting 200 mm wide & 30 m long				
	Area 0.20 mx30 m = 6.0 sqm				
	MATERIAL:				
	Area 0.20 m x30 m = 6.0 sqm				
	Add wastage @ 10 % = 0.60 sqm				
	Total = 6.60 sqm				
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	sqm	6.600	1220.00	8052.00
9999	Sundries (Carriage of MDF board)	L.S.	8.110	1.78	14.44
2489	PVC edge bending tape 2.00 mm thick	metre	30.000	30.00	900.00
7048	Rawl plug 50 mm (designation 10 nos)	each	102.000	10.00	1020.00
9999	Sundries(Labour for drilling hole)	L.S.	130.000	1.78	231.40
	LABOUR:				
0112	Carpenter 2nd class	day	0.770	399.00	307.23
0114	Beldar	day	0.860	329.00	282.94
9999	Sundries(Screws and sand papers)	L.S.	53.820	1.78	95.80
	TOTAL				10903.81
	Add Water Charges @ 1%				109.04
	TOTAL				11012.85
	Add CPOH @ 15%				1651.93
	Cost of 6.00 sqm				12664.78
	Cost of 1 sqm				2110.80
	Say				2110.80

SUB HEAD : 10.0
STEEL WORK

10.1 Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one quintal</i>				
	MATERIAL:				
	Steel = 1.00q				
	Add wastage @ 5% = 0.05q				
	Total = 1.05q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	1.050	4636.00	4867.80
2205	Carriage of steel	tonne	0.105	94.65	9.94
	LABOUR:				
0116	Fitter (grade 1)	day	0.500	435.00	217.50
0103	Blacksmith 2nd class	day	0.750	399.00	299.25
0114	Beldar	day	1.000	329.00	329.00
	Priming coat				
13.50.3	Rate as per Item Number 13.50.3 of SH:				
	Finishing	sqm	3.000	27.00	81.00 A
9999	Sundries	L.S.	20.670	1.78	36.79
	TOTAL				5841.28
	Add Water Charges @ 1% except on A i.e on (5,841.28- 81.00 =) 5,760.28				57.60
	TOTAL				5898.88
	Add CPOH @ 15% except on A i.e on (5,898.88 - 81.00 =) 5,817.88				872.68
	Cost of 100 kg				6771.56
	Cost of 1 kg				67.72
	Say				67.70

10.2 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a truss 7.6m clear span (weight = 3.95 quintal)</i>				
	MATERIAL:				
	(i) Principal rafter (T-iron):				
	100x 100x 10mm @ 15kg/m = 142.50kg				
	Struts (angles)40x40x6mm:				
	2x1.35=2.70m @ 3.5kg/m = 9.45kg				
	Total = 151.95kg				
	Add wastage @ 5% = 7.60kg				
	Total = 159.55kg. = 1.60q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	1.600	4636.00	7417.60
	(ii) Ties (flats) 50x12mm:				
	2x2.7 = 5.4m @4.7kg/m =25.38kg				
	Ties central (flats):				
	50x10mm 1x2.80 = 2.8m @3.90kg/m = 10.92kg.				
	Braces (flats)40x 10mm:				
	2x1.84= 3.68m @3.9kg/m = 14.35kg.				
	Total = 50.65kg+				
	Add wastage @ 5% = 2.53kg.				
	Total = 53.18kg. =0.53 qtl				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1009	Flats exceeding 10 mm in thickness (iii) Gusset plates 10mm thick: 1x0.74x0.35m = 0.259sqm. +shoe 4x0.46x0.46 = 0.845sqm. Total = 1.104 sqm. 1.104sqm.@ 78.4kg/m = 86.55kg. 12mm plates at the point of principal rafter and strut: 2x0.3x0.2 = 0.12sqm.+ Tie beam, brace and strut: 2x0.5x0.3 = 0.30sqm.+ Sole plates: 2x0.46x0.46 = 0.42sqm.+ Anchor plate: 2x0.46x0.1 =0.09sqm. Total = 0.93 sqm. Say 1.00 sqm. 1.00 sqm. @ 94.4kg/m = 94.40kg. Total = 180.95kg. Add wastage @ 5% = 9.05kg. Total = 190.00kg or 1.90q	quintal	0.530	4300.00	2279.00
1010	Mild steel plates (iv) 16mm dia. 50mm long rivets = 56 Nos.+ Add wastage @ 5 % = 2.8 Nos. Total = 58.8 Nos	quintal	1.900	4500.00	8550.00
1020	Mild steel rivets (v) 20mm dia. holding down bolts 4 Nos.x460mm =1840mm + Add wastage @ 5% = 92mm Total = 1932 mm	quintal	0.0684	5200.00	355.68
1221	20 mm dia holding down bolts	quintal	0.0529	6000.00	317.40
2205	Carriage of steel (0.160+0.053+0.091 +0.099+0.007+0.005) =0.415 tonne LABOUR:	tonne	0.415	94.65	39.28
0116	Fitter (grade 1)	day	2.700	435.00	1174.50
0103	Blacksmith 2nd class	day	3.600	399.00	1436.40
0139	Skilled Beldar (for floor rubbing etc.)	day	5.400	363.00	1960.20
0114	Beldar	day	3.600	329.00	1184.40
0100	Bandhani Applying priming coat: T Iron 9.5x0.4 = 3.80sqm.+ Struts 2.70x0.16 = 0.43sqm.+ Ties 5.4x0.124 =0.67sqm.+ Braces 2x 1.84x0.12 = 0.44 sqm.+ Ties 2.8x 0.12 = 0.34 sqm. Total = 5.68 sqm	day	0.440	363.00	159.72
13.50.3	Rate as per Item Number 13.50.3 of SH:				
	Finishing	sqm	5.680	27.00	153.36 A
9999	Sundries	L.S.	80.730	1.78	143.70
	TOTAL				25171.24
	Add Water Charges @ 1% except on A i.e on (25,171.24 - 153.36 =) 25,017.88				250.18
	TOTAL				25421.42
	Add CPOH @ 15% except on A i.e on (25,421.42 - 153.36 =) 25,268.06				3790.21
	Cost of 395 kg				29211.63
	Cost of 1 kg				73.95
	Say				73.95

10.3 Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a gate 2.4mx1.5m = 3.6 sqm.</i>				
	MATERIAL:				
	M.S. channels 18 Nos. on both sides				
	20x10x2mm @ 0.56kg/m				
	2x18x2.4 = 86.40m+				
	Add wastage @ 10%= 8.64m				
	Total = 95.04m				
1007	95.04m@0.56kg/m =53.22kg=0.53q				
	Structural steel such as tees, angles	quintal	0.530	4636.00	2457.08
	channels and R.S. joists				
	M.S. Tee-40x40x6mm				
	for bottom-1.5 70m+				
	for top =1.725m				
	=3.295m Say 3.3m				
	3.3m @ 3.5kg/m = 11.55kg				
	+Add wastage @ 10% = 1.155 kg.				
	Total = 12.705kg.				
	Say 0.13 qtl				
1007	Structural steel such as tees, angles	quintal	0.130	4636.00	602.68
	channels and R.S. joists				
	20mmx5mm flat iron diagonals 4 Nos.				
	4x32x0.5334 = 68.275m				
	68.275m @ 0.8kg/m = 54.62kg+				
	Add wastage @ 10% = 5.46kgTotal = 60.08kg = 0.60 qtl				
1008	Flats up to 10 mm in thickness	quintal	0.600	4200.00	2520.00
2205	Carriage of steel	tonne	0.126	94.65	11.93
	(0.053+0.013+0.060=0.126 tonne)				
9999	Cost of rivets fixing hooks and washers	L.S.	269.100	1.78	479.00
9999	Cost of locking arrangements and handles.	L.S.	67.340	1.78	119.87
4013	Pulley 40 mm dia	each	10.000	32.00	320.00
	Priming coat-				
	Channel - 36x0.076x2.4 = 6.57sqm.+				
	Tee-0.16x3.3=0.53sqm.+				
	Flats-0.05x68 = 3.40sqm.				
	Total = 10.50sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH:				
	Finishing	sqm	10.500	27.00	283.50 A
	LABOUR:				
0116	Fitter (grade 1)	day	3.000	435.00	1305.00
0102	Blacksmith 1 st class	day	6.000	435.00	2610.00
0103	Blacksmith 2nd class	day	6.000	399.00	2394.00
0123	Mason (brick layer) 1 st class	day	0.500	435.00	217.50
0124	Mason (brick layer) 2nd class	day	0.500	399.00	199.50
0114	Beldar	day	8.000	329.00	2632.00
9999	Sundries	L.S.	161.460	1.78	287.40
	TOTAL				16439.46
	Add Water Charges @ 1% except on A i.e on				
	(16,439.46 - 283.50 =) 16,155.96				161.56
	TOTAL				16601.02
	Add CPOH @ 15% except on A i.e on				
	(16,601.02 - 283.50 =) 16,317.52				2447.63
	Cost of 3.6 sqm				19048.65
	Cost of 1 sqm				5291.29
	Say				5291.30

10.4 Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junction and corners, 25 mm dia pulley, 40x40x6 mm angle and T-iron guide at the top and bottom respectively, including applying a priming coat of approved steel primer.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one double leaf door size 2.4x2.4m</i> $= 5.76\text{sqm.}$ MATERIAL: (i) M.S. sheet 1mm thick $5.76\text{sqm. @ } 7.85\text{kg/sqm.} = 45.216\text{kg.} +$ Add wastage @ 10% = 4.522kg. Total = 49.738kg = 0.497 q				
1013	Mild steel sheets for tanks	quintal	0.497	5000.00	2485.00
	(ii) Gusset plates 3.00mm thick Area of one gusset plates $0.3 \times 0.04 = 0.0120 + 1/2 \times 0.26(0.04 + 0.3) = 0.0442$ $= 0.0562\text{sqm.} + 8 \times 0.0562 = 0.4496\text{sqm.} +$ $2 \times 22/7 \times 1/4 \times 0.3 \times 0.3 = 0.1414\text{sqm.}$ $= 0.5910\text{sqm.}$ $0.5910\text{sqm.} @ 23.55\text{kg/sqm.} = 13.92\text{kg.} +$ Add wastage @ 10% = 1.39kg Total = 15.31kg. or 0.153q				
1010	Mild steel plates	quintal	0.153	4500.00	688.50
	(iii) Angle iron 40x40x6mm @ 3.5kg/m Sides-$4 \times 2.4 = 9.6\text{m} +$ Bottom & top $4 \times 1.2 = 4.8\text{m} +$ Diagonals-$2 \times 2.5 = 5.0\text{m} + 2 \times 2.45 = 4.9\text{m} +$ Top and bottom guides $2 \times 4.8 = 9.6\text{m}$ Top guide supports $7 \times 0.8 = 2.1\text{m}$ $= 36.0\text{m}$ $36\text{m} @ 3.5\text{kg. per m.} = 126\text{kg.} +$ Add wastage @ 10% = 12.6kg. Total = 138.6kg. or 1.39q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	1.390	4636.00	6444.04
	(iv) Channel 25x25x6mm @ 3.05kg/m Bottom-2.4m : 2.4×3.05 Channel 40x40x6mm @ 5.56kg/m $0.5 \times 5.56 = 2.78\text{kg.}$ $= 10.1\text{kg.} +$ Add wastage @ 10% = 1.101 kg. Total = 11.11kg. or 0.11q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.110	4636.00	509.96
2205	Carriage of steel ($0.0497 + 0.015 + 0.139 + 0.11 = 0.2157$ tonne)	tonne	0.216	94.65	20.44
9999	Pully guide blocks including drilling holes	L.S.	269.100	1.78	479.00
0969	Pulley 25 mm dia	each	8.000	40.00	320.00
9999	Handles and locking arrangements	L.S.	167.750	1.78	298.60
9999	Bolts and rivets	L.S.	269.100	1.78	479.00
9999	Cement concrete	L.S.	13.520	1.78	24.07
	Priming coat- M.S. Sheet $2 \times 5.76 = 11.52 +$ Angle iron $0.16 \times 36 = 5.76 +$ Channel-$0.15 \times 2.4 = 0.36 + 0.24 \times 0.5 = 0.12$ Total = 17.76 Say 18.0sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.3	Rate as per Item Number 13.50.3 of SH:				
	Finishing	sqm	18.000	27.00	486.00 A
	LABOUR:				
0116	Fitter (grade 1)	day	2.000	435.00	870.00
0102	Blacksmith 1 st class	day	3.000	435.00	1305.00
0103	Blacksmith 2nd class	day	4.000	399.00	1596.00
0114	Beldar	day	4.000	329.00	1316.00
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
9999	Sundries	L.S.	161.460	1.78	287.40
	TOTAL				17659.05
	Add Water Charges @ 1% except on A i.e on (17,659.05 - 486.00 =) 17,173.05				171.73
	TOTAL				17830.78
	Add CPOH @ 15% except on A i.e on (17,830.78 - 486.00 =) 17,344.78				2601.72
	Cost of 5.76 sqm				20432.50
	Cost of 1 sqm				3547.31
	Say				3547.30

10.5 Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.

10.5.1 Using M.S. angels 40x40x6 mm for diagonal braces

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one double leaf door size 2.4x2.4m = 5.76sqm.</i>				
	MATERIAL:				
	(i) M.S. sheet 1mm thick				
	5.76sqm. @ 7.85kg/sqm. = 45.216kg.+				
	Add wastage @ 10% = 4.522kg.				
	Total = 49.738kg = 0.497 q				
1013	Mild steel sheets for tanks	quintal	0.497	5000.00	2485.00
	(ii) Gusset plates 3.00mm thick				
	Area of one gusset plates				
	$0.3 \times 0.04 = 0.0120 + \frac{1}{2} \times 0.26(0.04 + 0.3) = 0.0442$				
	$= 0.0562 \text{sqm.} + 8 \times 0.0562$				
	$= 0.4496 \text{sqm.} + 2 \times 22/7 \times 1/4 \times 0.3 \times 0.3 = 0.1414 \text{sqm.}$				
	$= 0.5910 \text{sqm.}$				
	$0.5910 \text{sqm.} @ 23.55 \text{kg/sqm.} = 13.92 \text{kg.} +$				
	Add wastage @ 10% = 1.39kg				
	Total = 15.31kg. or 0.153q				
1013	Mild steel sheets for tanks	quintal	0.153	5000.00	765.00
	(iii) Angle iron: 40x40x6mm @ 3.5kg/m				
	Sides-4x2.40 = 9.6m+				
	Top & bottom-4x1.20=4.8m				
	Diagonals-2x2.5=5.0m+				
	2x2.45 = 4.9m+= 24.30m				
	Add wastage @ 10% = 2.43m				
	Total = 26.73m				
	$26.73 \text{m} @ 3.5 \text{kg. per m.} = 93.56 \text{kg} = 0.936 \text{q}$				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.936	4636.00	4339.30
2205	Carriage of steel	tonne	0.159	94.65	15.01
	(0.0497+0.0153+0.0936 tonne) = 0.1586 t				
1036	Iron pintels including welded pin	each	4.000	40.00	160.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	4.000	130.00	520.00
1019	Mild steel hooks	each	2.000	35.00	70.00
9999	Locking arrangements and handles	L.S.	167.700	1.78	298.51
9999	Rivets	L.S.	269.100	1.78	479.00
	Priming coat-				
	M.S. sheet = 11.52				
	Angle iron-0.16x24.3 = 3.89				
	Total 15.410				
13.50.3	Rate as per Item Number 13.50.3 of SH:				
	Finishing	sqm	15.410	27.00	416.07A
	LABOUR:				
0116	Fitter (grade 1)	day	2.000	435.00	870.00
0102	Blacksmith 1 st class	day	3.000	435.00	1305.00
0103	Blacksmith 2nd class	day	4.000	399.00	1596.00
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
0114	Beldar	day	5.000	329.00	1645.00
9999	Sundries	L.S.	161.460	1.78	287.40
	TOTAL				15301.33
	Add Water Charges @ 1% except on A i.e on (15,301.33 - 416.07 =) 14,885.26				148.85
	TOTAL				15450.18
	Add CPOH @ 15% except on A i.e on (15,450.18 - 416.07 =) 15,034.11				2255.12
	Cost of 5.76 sqm				17705.30
	Cost of 1 sqm				3073.84
	Say				3073.85

10.5.2 Using flats 30x6 mm for diagonal braces and central cross piece

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one double leaf door size 2.4x2.4m = 5.76sqm.</i>				
	MATERIAL:				
	(i) M.S. sheet 1mm thick				
	5.76sqm. @ 7.85kg/sqm. =45.216kg.				
	Add wastage @ 10% = 4.522kg.				
	Total = 49.738kg = 0.497 q				
1013	Mild steel sheets for tanks	quintal	0.497	5000.00	2485.00
	(ii) Gussets plates-3.00mm thick vide (ii) in item 10.4 = 0.5910sqm.				
	at mid height = 4x0.0528 = 0.2112sqm.				
	Total = 0.8022sqm.				
	Add wastage @ 10% = 0.0802sqm.				
	Total =0.8824sqm. @ 23.55 kg/sqm =20.78 kg				
	Grand Total = 0.2078 qtl				
1010	Mild steel plates	quintal	0.208	4500.00	935.10
	(iii) Angle iron:40x40x6mm @3.5kg/m				
	Sides-4x2.40 =9.6m				
	Top & bottom-4x1.20=4.8m				
	Total = 14.40m				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1007	Add wastage @ 10% = 1.44m Total = 15.84m 15.84m @ 3.5kg. per m.= 55.44kg =0.554qtl Structural steel such as tees, angles channels and R.S. joists (iv) Flats 30x6mm @1.4kg/m 4x2.45=9.80m+ 2x1.20 = 2.40m Total = 12.20m+ Add wastage @ 10% = 1.22m Total = 13.42m 13.42m @ 1.4kg. per m. = 18.788kg. = 0.188q Flats up to 10 mm in thickness Carriage of (i) (ii) and (iv)-0.0497+0.0208+0.0554+0.0188=0.1447 tonne	quintal	0.554	4636.00	2568.34
1008	Carriage of steel	tonne	0.145	94.65	13.70
1036	Iron pintels including welded pin	each	4.000	40.00	160.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	4.000	130.00	520.00
1019	Mild steel hooks	each	2.000	35.00	70.00
9999	Locking arrangements and handles	L.S.	167.700	1.78	298.51
9999	Rivets	L.S.	269.100	1.78	479.00
	Applying priming coat: M.S. sheet = 11.52 Angle iron - 0.16x24.3 = 3.89 0.16x14.40 = 2.30+ Flats 0.072x12.2= 0.88 Total = 14.70 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing LABOUR:	sqm	14.700	27.00	396.90 A
0116	Fitter (grade 1)	day	2.000	435.00	870.00
0102	Blacksmith 1 st class	day	3.000	435.00	1305.00
0103	Blacksmith 2nd class	day	4.000	399.00	1596.00
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0124	Mason (brick layer) 2nd class	day	0.060	399.00	23.94
0114	Beldar	day	5.000	329.00	1645.00
9999	Sundries	L.S.	161.460	1.78	287.40
	TOTAL				14469.59
	Add Water Charges @ 1% except on A i.e on (14,469.59 - 396.90 =) 14,072.69				140.73
	TOTAL				14610.32
	Add CPOH @ 15% except on A i.e on (14,610.32 - 396.90 =) 14,213.42				2132.01
	Cost of 5.76 sqm				16742.33
	Cost of 1 sqm				2906.65
	Say				2906.65

- 10.6** Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 – part 1 and M.S. top cover of required thickness for rolling shutters.

10.6.1 80x1.25 mm M.S. laths with 1.25 mm thick top cover

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for a rolling shutter of size 3mx2.5m=7.5 sqm.</i>					
MATERIAL:					
0973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	7.500	1300.00	9750.00
0974	Top cover for rolling shutters 1.25 mm thick	metre	2.500	620.00	1550.00
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	1.000	280.00	280.00
9999	Carriage	L.S.	53.820	1.78	95.80
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
LABOUR:					
0116	Fitter (grade 1)	day	2.550	435.00	1109.25
0114	Beldar	day	2.550	329.00	838.95
0123	Mason (brick layer) 1 st class	day	0.120	435.00	52.20
0124	Mason (brick layer) 2nd class	day	0.120	399.00	47.88
9999	Sundries	L.S.	60.580	1.78	107.83
TOTAL					13831.91
Add Water Charges @ 1%					138.32
TOTAL					13970.23
Add CPOH @ 15%					2095.53
Cost of 7.5 sqm					16065.76
Cost of 1 sqm					2142.10
Say					2142.10

10.6.2 80x1.20 mm M.S. laths with 1.20 mm thick top cover

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for a rolling shutter of size 3mx2.5m=7.5 sqm.</i>					
MATERIAL:					
7045	Rolling shutters of 80x1.2 mm laths	sqm	7.500	1200.00	9000.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	2.500	350.00	875.00
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	1.000	280.00	280.00
9999	Carriage	L.S.	53.820	1.78	95.80
LABOUR:					
0116	Fitter (grade 1)	day	2.550	435.00	1109.25
0114	Beldar	day	2.550	329.00	838.95
0123	Mason (brick layer) 1 st class	day	0.120	435.00	52.20
0124	Mason (brick layer) 2nd class	day	0.120	399.00	47.88
9999	Sundries	L.S.	60.580	1.78	107.83
TOTAL					12406.91
Add Water Charges @ 1%					124.07
TOTAL					12530.98
Add CPOH @ 15%					1879.65
Cost of 7.5 sqm					14410.63
Cost of 1 sqm					1921.42
Say					1921.40

10.6.3 80x0.90 mm M.S. laths with 0.90 mm thick top cover

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a rolling shutter of size 3mx2.5m=7.5 sqm.</i>				
	MATERIAL:				
7044	Rolling shutters of 80x0.90 mm laths	sqm	7.500	1100.00	8250.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	2.500	330.00	825.00
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	1.000	280.00	280.00
9999	Carriage	L.S.	53.820	1.78	95.80
	LABOUR:				
0116	Fitter (grade 1)	day	2.550	435.00	1109.25
0114	Beldar	day	2.550	329.00	838.95
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0123	Mason (brick layer) 1 st class	day	0.120	435.00	52.20
0124	Mason (brick layer) 2nd class	day	0.120	399.00	47.88
9999	Sundries	L.S.	60.580	1.78	107.83
	TOTAL				11606.91
	Add Water Charges @ 1%				116.07
	TOTAL				11722.98
	Add CPOH @ 15%				1758.45
	Cost of 7.5 sqm				13481.43
	Cost of 1 sqm				1797.52
	Say				1797.50

10.7 Providing and fixing ball bearing for rolling shutters.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no</i>				
0976	Ball bearing for rolling shutters	each	1.000	330.00	330.00
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				377.90
	Add Water Charges @ 1%				3.78
	TOTAL				381.68
	Add CPOH @ 15%				57.25
	Cost of each				438.93
	Say				438.95

10.8 Extra for providing mechanical device chain and crank operation for operating rolling shutters.**10.8.1 Exceeding 10.00 sqm and upto 16.80 sqm in the area**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one sqm</i>				
0977	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 10.00 sqm and up to 16.80 sqm area of door	sqm	1.000	600.00	600.00
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				624.07
	Add Water Charges @ 1%				6.24
	TOTAL				630.31
	Add CPOH @ 15%				94.55
	Cost of 1 sqm				724.86
	Say				724.85

10.8.2 Exceeding 16.80 sqm in area

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one sqm</i>				
0978	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 16.80 sqm area of door	sqm	1.000	600.00	600.00
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				624.07
	Add Water Charges @ 1%				6.24
	TOTAL				630.31
	Add CPOH @ 15%				94.55
	Cost of 1 sqm				724.86
	Say				724.85

10.9 Extra for providing grilled rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in-Charge, (area of grill to be measured).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a shutter of width 2.5m and grill height 0.6m Grill Area = 1.50sqm</i>				
	MATERIAL:				
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod instead of laths	sqm	1.500	270.00	405.00
	TOTAL				405.00
	Add Water Charges @ 1%				4.05
	TOTAL				409.05
	Add CPOH @ 15%				61.36
	Cost of 1.5 sqm				470.41
	Cost of 1 sqm				313.61
	Say				313.60

10.10 Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.**10.10.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door 2x0.76m = 1.52sqm. (weight 15 kg)</i>				
	MATERIAL:				
	Cement concrete blocks 15x10x10cm = 0.009 cum				
4.2.5	Rate as per Item Number 4.2.5 of SH: Concrete work	cum	0.009	5818.00	52.36 A
	LABOUR:				
0102	Blacksmith 1 st class	day	0.170	435.00	73.95
0123	Mason (brick layer) 1 st class	day	0.080	435.00	34.80
0124	Mason (brick layer) 2nd class	day	0.080	399.00	31.92
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries for carriage of material	L.S.	67.280	1.78	119.76
	TOTAL				477.29
	Add Water Charges @ 1% except on A i.e on (477.29 - 52.36 =) 424.93				4.25
	TOTAL				481.54
	Add CPOH @ 15% except on A i.e on (481.54 - 52.36 =) 429.18				64.38

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 15 kg				545.92
	Cost of 1 kg				36.39
	Say				36.40
10.10.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door 2x0.76m =1.52sqm (weight 15 kg)</i>				
	LABOUR:				
0102	Blacksmith 1 st class	day	0.170	435.00	73.95
0114	Beldar	day	0.170	329.00	55.93
9999	Sundries for carriage of material	L.S.	67.280	1.78	119.76
	TOTAL				249.64
	Add Water Charges @ 1%				2.50
	TOTAL				252.14
	Add CPOH @ 15%				37.82
	Cost of 15 kg				289.96
	Cost of 1 kg				19.33
	Say				19.35
10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side / top / centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).				
10.11.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a double leaf door of size 2.075 x 1.175m = 2.44 sqm. (weight 30 kg)</i>				
	MATERIAL:				
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	30.000	52.00	1560.00
9999	Carriage of steel door	L.S.	40.370	1.78	71.86
	LABOUR:for fabrication				
0103	Blacksmith 2nd class	day	0.170	399.00	67.83
0116	Fitter (grade 1)	day	0.260	435.00	113.10
0114	Beldar	day	0.340	329.00	111.86
9999	Sundries	L.S.	15.370	1.78	27.36
	Fixing with CC 1:3:6 blocks, wooden plugs and screws or rawl plugs and screws or with fixing clips and bolts and nuts as required including metal sash putty for glass fixing				
10.10.1	Rate as per Item Number 10.10.1	kg	30.000	36.40	1092.00 A
	Apply steel primer (2.44x 1.00 for both sides =2.44 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.440	27.00	65.88 A
	TOTAL				3109.89
	Add Water Charges @ 1% except on A i.e on (3,109.89 - 1,157.88 =) 1,952.01				19.52
	TOTAL				3129.41
	Add CPOH @ 15% except on A i.e on (3,129.41 - 1,157.88 =) 1,971.53				295.73
	Cost of 30 kg				3425.14
	Cost of 1 kg				114.17
	Say				114.15

10.11 Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side / top / centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).

10.11.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a double leaf door of size 2.075 x 1.175m = 2.44 sqm. (weight 30 kg)</i>				
	MATERIAL:				
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	30.000	52.00	1560.00
9999	Carriage of steel door	L.S.	40.370	1.78	71.86
	LABOUR:				
	for fabrication				
0103	Blacksmith 2nd class	day	0.170	399.00	67.83
0116	Fitter (grade 1)	day	0.260	435.00	113.10
0114	Beldar	day	0.340	329.00	111.86
9999	Sundries	L.S.	15.370	1.78	27.36
	Apply steel primer (2.44x 1.00 for both sides =2.44 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.440	27.00	65.88 A
	TOTAL				2017.89
	Add Water Charges @ 1% except on A i.e on (2,017.89 - 65.88 =) 1,952.01				19.52
	TOTAL				2037.41
	Add CPOH @ 15% except on A i.e on (2,037.41 - 65.88 =) 1,971.53				295.73
	Cost of 30 kg				2333.14
	Cost of 1 kg				77.77
	Say				77.75

10.12 Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre beading for doors, windows, Ventilators and composite units</i>				
1143	Steel beading	metre	1.000	27.00	27.00
9999	Applying priming coat	L.S.	0.460	1.78	0.82
9999	Fixing charges	L.S.	3.010	1.78	5.36
	TOTAL				33.18
	Add Water Charges @ 1%				0.33
	TOTAL				33.51
	Add CPOH @ 15%				5.03
	Cost of 1 metre				38.54
	Say				38.55

10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 17.5 kg</i>				
	MATERIAL:				
	Tee iron 40x40x6mm				
	= 2 + 2 + 1 = 5m				
	5 metres @ 3.5kg / m = 17.5kg.+				
	Add wastage @ 5% = 0.87kg.				
	Total = 18.37 kg. Say 0.18 quintal				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.180	4636.00	834.48
	M.S. bars 10mm = 1x1m = 1 metre				
	1 metre @ 0.60kg/m = 0.60kg.+				
	Add wastage @ 5% = 0.03kg.				
	Total = 0.63 kg.				
	Say = 0.006 quintal				
1002	Mild steel round bar 12 mm dia and below	quintal	0.006	4500.00	27.00
	M.S. flat 15x3mm = 6x10cm = 0.60 metre				
	0.6 metre @ 0.35kg/m = 0.21 kg+				
	Add wastage @ 5% = 0.01 kg.				
	Total = 0.22 kg				
1008	Flats up to 10 mm in thickness	quintal	0.002	4200.00	8.40
	Cement concrete block 1:3:6- 6x15x10x10cm= 0.009 cum				
4.2.5	Rate as per Item Number 4.2.5 of SH: Concrete work	cum	0.009	5818.00	52.36 A
0595	Bright finished or black enameled mild steel				
	butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
9999	for screws and nuts and bolts	L.S.	35.880	1.78	63.87
9999	for applying steel primer	L.S.	17.940	1.78	31.93
9999	Carriage of material	L.S.	5.330	1.78	9.49
	LABOUR:				
0103	Blacksmith 2nd class	day	0.100	399.00	39.90
0116	Fitter (grade 1)	day	0.150	435.00	65.25
0114	Beldar	day	0.200	329.00	65.80
9999	Sundries	L.S.	8.970	1.78	15.97
	TOTAL				1268.45
	Add Water Charges @ 1% except on A i.e on				
	(1,268.45 - 52.36 =) 1,216.09				
					12.16
	TOTAL				1280.61
	Add CPOH @ 15% except on A i.e on				
	(1,280.61 - 52.36 =) 1,228.25				
					184.24
	Cost of 17.5 kg				1464.85
	Cost of 1 kg				83.71
	Say				83.70

10.13 Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.

10.13.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 17.5 kg</i>				
	MATERIAL:				
	Tee iron 40x40x6mm =				
	2 + 2 + 1 = 5m				
	5 metres @ 3.5kg/m = 17.5kg.+				
	Add wastage @ 5% = 0.87kg.				
	Total = 18.37 kg. Say 0.18 quintal				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.180	4636.00	834.48
	M.S. bars 10mm = 1x1m = 1 metre				
	1 metre @ 0.60kg/ m = 0.60kg.+				
	Add wastage @ 5% = 0.03kg.				
	Total = 0.63 kg.				
	Say = 0.006 quintal				
1002	Mild steel round bar 12 mm dia and below	quintal	0.006	4500.00	27.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
9999	for screws and nuts and bolts	L.S.	35.880	1.78	63.87
9999	for applying steel primer	L.S.	17.940	1.78	31.93
9999	Carriage of material	L.S.	5.330	1.78	9.49
	LABOUR:				
0103	Blacksmith 2nd class	day	0.100	399.00	39.90
0116	Fitter (grade 1)	day	0.150	435.00	65.25
0114	Beldar	day	0.200	329.00	65.80
9999	Sundries	L.S.	8.970	1.78	15.97
	TOTAL				1207.69
	Add Water Charges @ 1%				12.08
	TOTAL				1219.77
	Add CPOH @ 15%				182.97
	Cost of 17.5 kg				1402.74
	Cost of 1 kg				80.16
	Say				80.15

10.14 Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm pressed, mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:

10.14.1 Profile B

10.14.1.1 Fixing with adjustable lugs with split end tail to each jamb

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B"	metre	5.000	230.00	1150.00
	2+2+1=5m				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
9999	Screws, nuts and bolts 50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg Say 0.03q	L.S.	35.880	1.78	63.87
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.030	4636.00	139.08
9999	Carriage of material LABOUR:	L.S.	5.330	1.78	9.49
0116	Fitter (grade 1)	day	0.150	435.00	65.25
0114	Beldar	day	0.200	329.00	65.80
9999	Sundries	L.S.	8.970	1.78	15.97
	Steel primer-500x2(2x1.2+2x6.0+1x12.50cm)=2.69 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.690	27.00	72.63 A
	TOTAL				1636.09
	Add Water Charges @ 1% except on A i.e on (1,636.09 - 72.63 =) 1,563.46				15.63
	TOTAL				1651.72
	Add CPOH @ 15% except on A i.e on (1,651.72 - 72.63 =) 1,579.09				236.86
	Cost of 5 metre				1888.58
	Cost of 1 metre				377.72
	Say				377.70

10.14.1.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B" 2+2+1=5m	metre	5.000	230.00	1150.00
9999	Deduct sundries for not providing adjustable lugs	L.S.	-20.000	1.78	-35.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
9999	Screws, nuts and bolts 50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg Say 0.03q	L.S.	35.880	1.78	63.87
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.030	4636.00	139.08
9999	Carriage of material LABOUR:	L.S.	5.330	1.78	9.49
0116	Fitter (grade 1)	day	0.150	435.00	65.25
0114	Beldar	day	0.200	329.00	65.80
9999	Sundries	L.S.	8.970	1.78	15.97
	Steel primer-500x2(2x1.2+2x6.0+1 x 12.50cm) =2.69 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.690	27.00	72.63 A
	TOTAL				1600.49
	Add Water Charges @ 1% except on A i.e on (1,600.49 - 72.63 =) 1,527.86				15.28
	TOTAL				1615.77
	Add CPOH @ 15% except on A i.e on (1,615.77 - 72.63 =) 1,543.14				231.47
	Cost of 5 metre				1847.24
	Cost of 1 metre				369.45
	Say				369.45

10.14.2 Profile C

10.14.2.1 Fixing with adjustable lugs with split end tail to each jamb

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C" 2+2+1=5m	metre	5.000	250.00	1250.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
9999	Screws, nuts and bolts 50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg. Say 0.03q	L.S.	35.880	1.78	63.87
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.030	4636.00	139.08
9999	Carriage of material	L.S.	5.330	1.78	9.49
	LABOUR:				
0116	Fitter (grade 1)	day	0.150	435.00	65.25
0114	Beldar	day	0.200	329.00	65.80
9999	Sundries	L.S.	8.970	1.78	15.97
	Steel primer-500x2(2x 1.2+2x6.0+1 x 12.50cm) sqm =2.69				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.690	27.00	72.63 A
	TOTAL				1736.09
	Add Water Charges @ 1% except on A i.e on (1,736.09 - 72.63 =) 1,663.46				16.63
	TOTAL				1752.72
	Add CPOH @ 15% except on A i.e on (1,752.72 - 72.63 =) 1,680.09				252.01
	Cost of 5 metre				2004.73
	Cost of 1 metre				400.95
	Say				400.95

10.14 Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm pressed, mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:

10.14.2 Profile C

10.14.2.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Cost of 5 metre</i>				
	<i>Details of cost for 5 metre</i>				
	MATERIAL				
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C" 2+2+1=5	metre	5.000	250.00	1250.00
9999	Sundries for not providing adjustable lugs(-)	L.S.	-20.000	1.78	-35.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
9999	Screws and Nuts bolts 50 x 25 x 5 mm M.S. angle for threshold 1 metre @ 2.75 kg per metre = 2.75 kg. Say 0.03 qtl	L.S.	35.880	1.78	63.87
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.030	4636.00	139.08
9999	Carriage of material	L.S.	5.330	1.78	9.49
	LABOUR :				
0116	Fitter (grade 1)	day	0.150	435.00	65.25
0114	Beldar	day	0.200	329.00	65.80
9999	Sundries	L.S.	8.970	1.78	15.97
	Steel primer-500x2(2x 1.2+2x6.0+1 x 12.50cm) sqm =2.69				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.690	27.00	72.63 A
	TOTAL				1700.49
	Add Water Charges @ 1% except on A i.e on (1,700.49 - 72.63 =) 1,627.86				16.28
	TOTAL				1716.77
	Add CPOH @ 15% except on A i.e on (1,716.77 - 72.63 =) 1,644.14				246.62
	Cost of 5 metre				1963.39
	Cost of 1 metre				392.68
	Say				392.70

10.14.3 Profile E

10.14.3.1 Fixing with adjustable lugs with split end tail to each jamb

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E" 2+2+1=5	metre	5.000	270.00	1350.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Screws & Nuts bolts	L.S.	35.880	1.78	63.87
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.030	4636.00	139.08
9999	Carriage of material	L.S.	5.330	1.78	9.49
	LABOUR :				
0116	Fitter (grade 1)	day	0.150	435.00	65.25
0114	Beldar	day	0.200	329.00	65.80
9999	Sundries	L.S.	8.970	1.78	15.97
	(A) Steel primer-500 x 2 (2x1.2 + 2x6.0 + 1x12.50 cm) = 2.69 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.690	27.00	72.63 A
	TOTAL				1836.09
	Add Water Charges @ 1% except on A i.e on (1,836.09 - 72.63 =) 1,763.46				17.63
	TOTAL				1853.72
	Add CPOH @ 15% except on A i.e on (1,853.72 - 72.63 =) 1,781.09				267.16
	Cost of 5 metre				2120.88
	Cost of 1 metre				424.18
	Say				424.20

10.14.3.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL :				
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E" 2+2+1 =5 m	metre	5.000	270.00	1350.00
9999	Sundries for not providing adjustable lugs (-)	L.S.	-20.000	1.78	-35.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
9999	Screws & Nuts bolts 50 x 25 x 5 mm M.S. angle for threshold 1 metre @ 2.75 kg per metre = 2.75 kg . Say 0.03 qtl	L.S.	35.880	1.78	63.87
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.030	4636.00	139.08
9999	Carriage of material	L.S.	5.330	1.78	9.49
	LABOUR :				
0116	Fitter (grade 1)	day	0.150	435.00	65.25
0114	Beldar	day	0.200	329.00	65.80
9999	Sundries	L.S.	8.970	1.78	15.97
	(A) Steel primer-500 x 2 (2x1.2 + 2x6.0 + 1x12.50 cm) = 2.69 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.690	27.00	72.63 A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1800.49
	Add Water Charges @ 1% except on A i.e on (1,800.49 - 72.63 =) 1,727.86				17.28
	TOTAL				1817.77
	Add CPOH @ 15% except on A i.e on (1,817.77 - 72.63 =) 1,745.14				261.77
	Cost of 5 metre				2079.54
	Cost of 1 metre				415.91
	Say				415.90

10.15 Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.

10.15.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 7.13 Kg.</i>				
	L- section - 32x22x28mm 1.60mm thick				
	2.00+2.00+1.00 = 5.00 m				
	Width of MS sheet =				
	32+24.80+22+24.80+10mm= 113.60mm =0.1136m				
	Area of MS sheet = 0.1136x5.00x0.0016				
	=0.0009088 sqm				
	Weight of Sheet = 0.0009088				
	x7850 = 7.134 kg				
	Add wastage @ 5% = 0.357kg.				
	Total = 7.491 kg Say 7.49 kg				
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	7.490	72.00	539.28
	M.S. bars 10mm = l x l m = 1 metre				
	1 metre @ 0.60kg/m= 0.60kg.				
	Add wastage @ 5% = 0.03 kg.				
	Total = 0.63 kg.				
	Say = 0.006 quintal				
1002	Mild steel round bar 12 mm dia and below	quintal	0.006	4500.00	27.00
	M.S. flat 15x3mm = 6x10cm = 0.60 metre				
	0.6 metre @ 0.35kg/m = 0.21 kg				
	Add wastage @ 5% = 0.01 kg.				
	Total = 0.22 kg				
1008	Flats up to 10 mm in thickness	quintal	0.002	4200.00	8.40
	Cement concrete block 1:3:6- 6x15x10x				
	10cm = 0.009 cum				
4.2.5	Rate as per Item Number 4.2.5 of SH: Concrete work	cum	0.009	5818.00	52.36 A
0595	Bright finished or black enameled mild steel butt hinges				
	100x58x1.90 mm	10 Nos	6.000	90.00	54.00
9999	for screws and nuts and bolts	L.S.	35.880	1.78	63.87
9999	for applying steel primer	L.S.	17.940	1.78	31.93
9999	Carriage of material	L.S.	5.330	1.78	9.49
	LABOUR:				
0103	Blacksmith 2nd class	day	0.040	399.00	15.96
0116	Fitter (grade 1)	day	0.060	435.00	26.10
0114	Beldar	day	0.080	329.00	26.32

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	3.640	1.78	6.48
	TOTAL				861.19
	Add Water Charges @ 1% except on A i.e on (861.19 - 52.36 =) 808.83				8.09
	TOTAL				869.28
	Add CPOH @ 15% except on A i.e on (869.28 - 52.36 =) 816.92				122.54
	Cost of 7.13 kg				991.82
	Cost of 1 kg				139.11
	Say				139.10

10.15.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 7.13 kg</i>				
	L- section - 32x22x28mm 1.60mm thick				
	2.00+2.00+1.00 = 5.00 m				
	Width of MS sheet =				
	32+24.80+22+24.80+10mm= 113.60mm = 0.1136m				
	Area of MS sheet = 0.1136x5.00x0.0016 =				
	0.0009088 sqm				
	Weight of Sheet = 0.0009088x7850 = 7.134 kg				
	Add wastage @ 5% = 0.357kg.				
	Total = 7.491 kg Say 7.49 kg				
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	7.490	72.00	539.28
	M.S. bars 10mm = l x l m = 1 metre				
	1 metre @ 0.60kg/m = 0.60kg.				
	Add wastage @ 5% = 0.03 kg.				
	Total = 0.63 kg.				
	Say = 0.006 quintal				
1002	Mild steel round bar 12 mm dia and below	quintal	0.006	4500.00	27.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	6.000	90.00	54.00
9999	for screws and nuts and bolts	L.S.	35.880	1.78	63.87
9999	for applying steel primer	L.S.	17.940	1.78	31.93
9999	Carriage of material	L.S.	5.330	1.78	9.49
	LABOUR:				
0103	Blacksmith 2nd class	day	0.040	399.00	15.96
0116	Fitter (grade 1)	day	0.060	435.00	26.10
0114	Beldar	day	0.080	329.00	26.32
9999	Sundries	L.S.	3.640	1.78	6.48
	TOTAL				800.43
	Add Water Charges @ 1%				8.00
	TOTAL				808.43
	Add CPOH @ 15%				121.26
	Cost of 7.13 kg				929.69
	Cost of 1 kg				130.39
	Say				130.40

10.16 Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.

10.16.1 Hot finished welded type tubes

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a truss of span 8 metre weight = 119 kg.</i>				
	MATERIAL:				
	50mm dia. tube				
	Tie beam-lx8.0m = 8.00m+				
	Principal rafter 2x4.30m = 8.60m= 16.60m				
	16.60m @ 5.10kg./m = 84.66kg.				
	40mm dia. tube				
	Members = 2(0.45+1.25+0.90+2.15)				
	= 2x4.75=9.50m				
	9.50m @ 3.61kg/m = 34.60kg.				
	Total = 118.96kg.				
	Add wastage @ 5% = 5.94kg.				
	Total = 124.90kg. say 125 kg				
4009	Mild steel tubes hot finished welded type	kilogram	125.000	55.00	6875.00
2205	Carriage of steel	tonne	0.125	94.65	11.83
	Priming coat 50mm dia. tube 16.60x0.157m = 1.61 sqm.				
	40mm dia. tube 9.50x0.125m=1.91 sqm.= 2.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.800	27.00	75.60 A
	Welding charges:-				
	Rafter:-				
	4x22/7x6.03 = 75.80cm.+				
	Ties:- 2x22/7x6.03=37.90cm.+				
	Members:-2x4x2x22/7x4.83=242.87cm				
	Total = 356.57cm say 357cm				
1215	Welding by electric plant	cm	357.000	2.00	714.00
	LABOUR:				
	For cutting, assembling & erection				
0102	Blacksmith 1 st class	day	1.500	435.00	652.50
0100	Bandhani	day	0.750	363.00	272.25
0114	Beldar	day	5.500	329.00	1809.50
9999	Sundries	L.S.	80.730	1.78	143.70
	TOTAL				10554.38
	Add Water Charges @ 1% except on A i.e on				
	(10,554.38 - 75.60 =) 10,478.78				104.79
	TOTAL				10659.17
	Add CPOH @ 15% except on A i.e on				
	(10,659.17 - 75.60 =) 10,583.57				1587.54
	Cost of 119 kg				12246.71
	Cost of 1 kg				102.91
	Say				102.90

10.16.2 Hot finished seamless type tubes

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a truss of span 8 metre weight = 119 kg.</i>				
	MATERIAL:				
	50mm dia. tube				
	Tie beam- 1 x 8.0m = 8.00m +				
	Principal rafter 2x4.30m = 8.60m = 16.60m				
	16.60m @ 5.10 kg/m = 84.66 kg.40mm dia. tube				
	Members = 2(0.45+1.25+0.90+2.15)				
	= 2x4.75 = 9.50m9.50m				
	@ 3.61kg/m =34.60kg.				
	Total = 118.96kg.				
	Add wastage @ 5% = 5.94kg.				
	Total = 124.90kg. say 125 kg				
4010	Mild steel tubes hot finished seamless type	kilogram	125.000	65.00	8125.00
2205	Carriage of steel	tonne	0.125	94.65	11.83
	Priming coat 50mm dia. tube 16.60x0.157 m = 1.61 sqm.				
	40mm dia. tube 9.50x 10125m = 1.91 sqm.				
	Total =2.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.800	27.00	75.60 A
	Welding charges:-				
	Rafter:- 4x22/7x6.03 = 75.80cm.+				
	Ties :- 2x22/7x6.03=37.90cm.+				
	Members :- 2x4x2x22/7x4.83 = 242.87cm				
	Total = 356.57 cm say 357 cm				
1215	Welding by electric plant	cm	357.000	2.00	714.00
	LABOUR:				
0102	Blacksmith 1 st class	day	1.500	435.00	652.50
0100	Bandhani	day	0.750	363.00	272.25
0114	Beldar	day	5.500	329.00	1809.50
9999	Sundries	L.S.	80.730	1.78	143.70
	TOTAL				11804.38
	Add Water Charges @ 1% except on A i.e on				
	(11,804.38 - 75.60 =) 11,728.78				
					117.29
	TOTAL				11921.67
	Add CPOH @ 15% except on A i.e on				
	(11,921.67 - 75.60 =) 11,846.07				
					1776.91
	Cost of 119 kg				13698.58
	Cost of 1 kg				115.11
	Say				115.10

10.16.3 Electric resistance or induction butt welded tubes

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a truss of span 8 metre weight = 119 kg.</i>				
	MATERIAL:				
	50mm dia. tubeTie beam-1x8.0m = 8.00m+				
	Principal rafter 2x4.30m = 8.60m= 16.60m				
	16.60m @ 5.10kg./m= 84.66kg.40mm dia. tube				
	Members = 2(0.45+1.25+0.90+2.15)=				
	2x4.75=9.50m9.50m @ 3.61kg/m = 34.60kg.				
	Total = 118.96kg.				
	Add wastage @ 5% = 5.94kg.				
	Total = 124.90kg. say 125 kg				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	125.000	72.00	9000.00
2205	Carriage of steel Priming coat 50mm dia. tube 16.60x0.157 m = 1.61 sqm. 40mm dia. tube 9.50x 10125m = 1.91 sqm. Total =2.80 sqm	tonne	0.125	94.65	11.83
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing Welding charges:- Rafter:- 4x22/7x6.03 = 75.80cm.+ Ties :- 2x22/7x6.03=37.90cm.+ Members :- 2x4x2x22/7x4.83 = 242.87cm Total = 356.57 cm say 357 cm	sqm	2.800	27.00	75.60 A
1215	Welding by electric plant LABOUR:	cm	357.000	2.00	714.00
0102	Blacksmith 1 st class	day	1.500	435.00	652.50
0100	Bandhani	day	0.750	363.00	272.25
0114	Beldar	day	5.500	329.00	1809.50
9999	Sundries	L.S.	80.730	1.78	143.70
	TOTAL				12679.38
	Add Water Charges @ 1% except on A i.e on (12,679.38 - 75.60 =) 12,603.78				126.04
	TOTAL				12805.42
	Add CPOH @ 15% except on A i.e on (12,805.42 - 75.60 =) 12,729.82				1909.47
	Cost of 119 kg				14714.89
	Cost of 1 kg				123.65
	Say				123.65
10.17	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 clamp</i> MATERIAL: 16mm dia. M.S. bar 1m @ 1.58 kg/m 1x1.58 = 1.58kg + Add wastage @ 5% = 0.08 kg. Total = 1.66 kg. Say 1.70kg. or 0.017q				
1003	Mild steel round bar above 12 mm dia LABOUR:	quintal	0.017	4400.00	74.80
0103	Blacksmith 2nd class	day	0.040	399.00	15.96
0114	Beldar	day	0.040	329.00	13.16
9999	Sundries (carriage, fixing and painting etc.)	L.S.	1.820	1.78	3.24
	TOTAL				107.16
	Add Water Charges @ 1%				1.07
	TOTAL				108.23
	Add CPOH @ 15%				16.23
	Cost of each				124.46
	Say				124.45

10.18 Providing and fixing circular / hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron / M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one box clamp</i>				
	MATERIAL:				
4012	Circular C.I. Box for ceiling fan including bottom and top lids 12mm dia. M.S. bar 80cm @ 0.9kg/m - 0.72kg+ Add wastage @ 5% - 0.036 Total = 0.756 kg. Say 0.008 q	each	1.000	62.00	62.00
1002	Mild steel round bar 12 mm dia and below	quintal	0.008	4500.00	36.00
	LABOUR:				
0103	Blacksmith 2nd class	day	0.030	399.00	11.97
0114	Beldar	day	0.030	329.00	9.87
9999	Sundries (carriage, fixing and painting etc.)	L.S.	1.820	1.78	3.24
	TOTAL				123.08
	Add Water Charges @ 1%				1.23
	TOTAL				124.31
	Add CPOH @ 15%				18.65
	Cost of each				142.96
	Say				142.95

10.19 Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one bolt 16mm dia and 1200mm long.</i>				
	MATERIAL:				
	l .2m @ 1.58kg/m = 1.895 kg = 0.019q				
1035	Bolts and nuts above 300 mm in length Plate-100x100x6mm @ 47kg/sqm. Wt. = 0.47kg. = 0.005q	quintal	0.019	5800.00	110.20
1010	Mild steel plates	quintal	0.005	4500.00	22.50
	LABOUR:				
0103	Blacksmith 2nd class	day	0.030	399.00	11.97
9999	Carriage and labour for fixing	L.S.	4.550	1.78	8.10
	TOTAL				152.77
	Add Water Charges @ 1%				1.53
	TOTAL				154.30
	Add CPOH @ 15%				23.14
	Cost of 2.4 kg				177.44
	Cost of 1 kg				73.93
	Say				73.95

10.20 Providing and fixing bolts including nuts and washers complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.10 quintal of nuts and washers</i>				
	MATERIAL:				
1034	Bolts and nuts up to 300 mm in length	quintal	0.100	5600.00	560.00
2205	Carriage of steel	tonne	0.010	94.65	0.95
	LABOUR:				
0103	Blacksmith 2nd class	day	0.380	399.00	151.62
0114	Beldar	day	0.380	329.00	125.02
9999	Sundries	L.S.	4.550	1.78	8.10
	TOTAL				845.69
	Add Water Charges @ 1%				8.46
	TOTAL				854.15
	Add CPOH @ 15%				128.12
	Cost of 10 kg				982.27
	Cost of 1 kg				98.23
	Say				98.25

10.21 Providing and fixing M.S. rivets of sizes in position.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.10 q of rivets</i>				
	MATERIAL:				
1020	Mild steel rivets	quintal	0.100	5200.00	520.00
2205	Carriage of steel	tonne	0.010	94.65	0.95
	LABOUR:				
0116	Fitter (grade 1)	day	0.830	435.00	361.05
0139	Skilled Beldar (for floor rubbing etc.)	day	0.830	363.00	301.29
9999	Sundries	L.S.	10.790	1.78	19.21
	TOTAL				1202.50
	Add Water Charges @ 1%				12.02
	TOTAL				1214.52
	Add CPOH @ 15%				182.18
	Cost of 10 kg				1396.70
	Cost of 1 kg				139.67
	Say				139.65

10.22 Welding by gas or electric plant including transportation of plant at site etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one cm.</i>				
1214	Welding by gas plant including transportation of welding plant at site etc. complete	cm	1.000	2.00	2.00
9999	Sundries	L.S.	0.260	1.78	0.46
	TOTAL				2.46
	Add Water Charges @ 1%				0.02
	TOTAL				2.48
	Add CPOH @ 15%				0.37
	Cost of 1 cm				2.85
	Say				2.85

- 10.25 Steel work welded in built up sections / framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.**
- 10.25.1 In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a flight of staircase of 2.8m height with tread and riser of 200mm & 0.60m wide.</i> MATERIAL: (i) Unequal angles as stringers-75x50x6mm $4 \times 12.69 \times 5.6 = 284.25 \text{ kg.}$ Add wastage @ 5% = 14.21 kg. = 298.46kg. Say 2.985q (ii) unequal angles at sides 50x30x5mm $2 \times 14 \times 0.2 \times 3.00 = 16.8 \text{ kg.}$ Add wastage @ 5% = 0.84kg. = 17.64 kg. Say 0.176q Total = 3.161q 1007 Structural steel such as tees, angles channels and R.S. joists quintal 3.161 4636.00 14654.40 (iii) plate for tread 8mm thick $14 \times 7.5 = 105.00 \text{ kg.} +$ Add wastage @ 5% = 5.25kg. Total = 110.25kg. Say 1.103q 1010 Mild steel plates quintal 1.103 4500.00 4963.50 (iv) G. pipe for railing 40mm $2 \times 12.69 \text{ m} = 25.38 \text{ m} +$ Add wastage @ 5% = 1.27m = 26.65m 1549 G.I. pipes 40 mm dia metre 26.650 220.00 5863.00 (v) M.S. round bars 16mm dia. $15 \times 0.75 \times 2 \times 1.58 = 35.55 \text{ kg.} +$ Add wastage @ 5% = 1.78kg. Total = 37.33 kg. Say 0.373q 1003 Mild steel round bar above 12 mm dia quintal 0.373 4400.00 1641.20 2205 Carriage of steel tonne 0.464 94.65 43.89 $(3.161 + 1.103 + 0.373) = 4.637 \text{ q} = 0.4637 \text{ tonne}$ 2271 Carriage of G.I. pipes below 100 mm dia tonne 0.099 94.65 9.38 approx. wt. $3.72 \times 26.65 = 99.14 \text{ kg}$ 1215 Welding by electric plant cm 2320.000 2.00 4640.00 23.20m LABOUR: 0102 Blacksmith 1 st class day 1.850 435.00 804.75 0114 Beldar day 1.250 329.00 411.25 0100 Bandhani day 0.600 363.00 217.80 Applying priming coat (i) steps $2.4 \times 14 = 33.60 \text{ sqm.} +$ (ii) angles $4 \times 12.69 \times 0.25 = 12.69 \text{ sqm.} +$ (iii) Bars and other components = 2.00 sqm. (L.S.) Total = 48.29 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	48.290	27.00	1303.83 A
9999	Sundries	L.S.	110.890	1.78	197.38
	TOTAL				34750.38
	Add Water Charges @ 1% except on A i.e on (34,750.38 - 1,303.83 =) 33,446.55				334.47
	TOTAL				35084.85
	Add CPOH @ 15% except on A i.e on (35,084.85 - 1,303.83 =) 33,781.02				5067.15
	Cost of 533.1 kg				40152.00
	Cost of 1 kg				75.32
	Say				75.30
10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 mx1 m framed guard bar grating of 0.218 quintal</i>				
	(i) M.S. flat 50x6 mm 2.4kg/per metre 5.75x2.40 =13.8kg. + Add wastage@ 5% = 0.69kg Total = 14.49kg. say 14.5 kg				
1008	Flats up to 10 mm in thickness	quintal	0.145	4200.00	609.00
	(ii) 12mm dia. Bars @ 0.89 kg/m 9x1 = 9 metre @ 0.89kg/m = 8.01 kg+ Add wastage @ 5% = 0.40kg. Total=8.41 kg. say 0.084q				
1002	Mild steel round bar 12 mm dia and below	quintal	0.084	4500.00	378.00
2205	Carriage of steel	tonne	0.023	94.65	2.17
1215	Welding by electric plant 60cm	cm	60.000	2.00	120.00
	LABOUR:				
0102	Blacksmith 1 st class	day	0.700	435.00	304.50
0114	Beldar	day	0.500	329.00	164.50
0100	Bandhani	day	0.250	363.00	90.75
	Applying priming coat 0.65 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.600	27.00	16.20 A
9999	Sundries	L.S.	4.550	1.78	8.10
	TOTAL				1693.22
	Add Water Charges @ 1% except on A i.e on (1,693.22 - 16.20 =) 1,677.02				16.77
	TOTAL				1709.99
	Add CPOH @ 15% except on A i.e on (1,709.99 - 16.20 =) 1,693.79				254.07
	Cost of 21.8 kg				1964.06
	Cost of 1 kg				90.09
	Say				90.10

10.26 Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.

10.26.1 M.S. tube

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m</i>				
	MATERIAL:				
	M.S. tube 40mm nominal bore (medium)				
	=5.40m @ 3.61kg/m= 19.49kg				
	Add wastage @ 5% =0.097				
	Total = 20.46 kg				
4009	Mild steel tubes hot finished welded type	kilogram	20.460	55.00	1125.30
2205	Carriage of steel	tonne	0.021	94.65	1.94
	Priming coat 40mm dia.Tube-				
	5.4x22/7x0.0483= 0.82 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.820	27.00	22.14 A
1215	Welding by electric plant	cm	72.000	2.00	144.00
	(joints of hand rail and ballusters) 18x4x1.00 = 72cm				
	LABOUR:				
	Labour for cutting assembling & erection				
0102	Blacksmith 1 st class	day	0.240	435.00	104.40
0114	Beldar	day	0.900	329.00	296.10
0100	Bandhani	day	0.120	363.00	43.56
9999	Sundries	L.S.	12.480	1.78	22.21
	TOTAL				1759.65
	Add Water Charges @ 1% except on A i.e on				
	(1,759.65 - 22.14 =) 1,737.51				
	TOTAL				1777.03
	Add CPOH @ 15% except on A i.e on				
	(1,777.03 - 22.14 =) 1,754.89				
	Cost of 19.49 kg				2040.26
	Cost of 1 kg				104.68
	Say				104.70

10.26.2 E.R.W. tubes

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m</i>				
	MATERIAL:				
	E.R.W. tube 40mm nominal bore = 5.40m @				
	3.28kg/ m= 17.31kg				
	Add wastage @ 5% = 0.88 kg				
	Total = 18.59 kg				
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	18.590	72.00	1338.48

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2205	Carriage of steel Priming coat 40mm dia. Tube-5.4x22/7x0.0483 = 0.82 sqm	tonne	0.019	94.65	1.76
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.820	27.00	22.14 A
1215	Welding by electric plant (joints of hand rail and ballustards) 18x4x1.00 = 72cm	cm	72.000	2.00	144.00
	LABOUR:				
	Labour for cutting assembling & erection				
0102	Blacksmith 1 st class	day	0.240	435.00	104.40
0114	Beldar	day	0.900	329.00	296.10
0100	Bandhani	day	0.120	363.00	43.56
9999	Sundries	L.S.	12.480	1.78	22.21
	TOTAL				1972.65
	Add Water Charges @ 1% except on A i.e on (1,972.65 - 22.14 =) 1,950.51				19.51
	TOTAL				1992.16
	Add CPOH @ 15% except on A i.e on (1,992.16 - 22.14 =) 1,970.02				295.50
	Cost of 17.71 kg				2287.66
	Cost of 1 kg				129.17
	Say				129.15

10.26.3 G.I. pipes

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos				
	MATERIAL:				
	G.I. pipe 40mm nominal bore = 5.40m				
	Add wastage @ 5% = 0.27m				
	Total = 5.67m				
1549	G.I. pipes 40 mm dia	metre	5.670	220.00	1247.40
2271	Carriage of G.I. pipes below 100 mm dia (5.67m @ 3.72 kg/m = 21.09kg) Priming coat 40mm dia.Tube-5.4x22/7x0.0483 = 0.82 sqm	tonne	0.021	94.65	2.00
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.820	27.00	22.14 A
1215	Welding by electric plant (joints of hand rail and ballustards) 18x4x1.00 = 72cm	cm	72.000	2.00	144.00
	LABOUR:				
	Labour for cutting assembling & erection				
0102	Blacksmith 1 st class	day	0.240	435.00	104.40
0114	Beldar	day	0.900	329.00	296.10
0100	Bandhani	day	0.120	363.00	43.56
9999	Sundries	L.S.	12.480	1.78	22.21
	TOTAL				1881.81
	Add Water Charges @ 1% except on A i.e on (1,881.81 - 22.14 =) 1,859.67				18.60
	TOTAL				1900.41
	Add CPOH @ 15% except on A i.e on (1,900.41 - 22.14 =) 1,878.27				281.74
	Cost of 20.09 kg				2182.15
	Cost of 1 kg				108.62
	Say				108.60

10.27 Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm²), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.

10.27.1 10 x60 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
2506	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 60 mm	10 Nos	10.000	260.00	260.00
0124	Mason (brick layer) 2nd class	day	0.400	399.00	159.60
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries for carriage of material	L.S.	10.000	1.78	17.80
	TOTAL				569.00
	Add Water Charges @ 1%				5.69
	TOTAL				574.69
	Add CPOH @ 15%				86.20
	Cost of 10 nos				660.89
	Cost of each				66.09
	Say				66.10

10.27.2 10 x80 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
2507	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleave. Size 10 mm x 80 mm	10 Nos	10.000	300.00	300.00
0124	Mason (brick layer) 2nd class	day	0.400	399.00	159.60
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries for carriage of material	L.S.	10.000	1.78	17.80
	TOTAL				609.00
	Add Water Charges @ 1%				6.09
	TOTAL				615.09
	Add CPOH @ 15%				92.26
	Cost of 10 nos				707.35
	Cost of each				70.74
	Say				70.75

10.27.3 10 x120 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
2508	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 120 mm	10 Nos	10.000	365.00	365.00
0124	Mason (brick layer) 2nd class	day	0.500	399.00	199.50
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries for carriage of material	L.S.	10.000	1.78	17.80
	TOTAL				746.80
	Add Water Charges @ 1%				7.47
	TOTAL				754.27
	Add CPOH @ 15%				113.14
	Cost of 10 nos				867.41
	Cost of each				86.74
	Say				86.75

10.27.4 10 x140 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
2509	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 140 mm	10 Nos	10.000	460.00	460.00
0124	Mason (brick layer) 2nd class	day	0.500	399.00	199.50
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries for carriage of material	L.S.	10.000	1.78	17.80
	TOTAL				841.80
	Add Water Charges @ 1%				8.42
	TOTAL				850.22
	Add CPOH @ 15%				127.53
	Cost of 10 nos				977.75
	Cost of each				97.78
	Say				97.80

10.27.5 10 x160 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
2510	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 160 mm	10 Nos	10.000	575.00	575.00
0124	Mason (brick layer) 2nd class	day	0.600	399.00	239.40
0114	Beldar	day	0.600	329.00	197.40
9999	Sundries for carriage of material	L.S.	10.000	1.78	17.80
	TOTAL				1029.60
	Add Water Charges @ 1%				10.30
	TOTAL				1039.90
	Add CPOH @ 15%				155.99
	Cost of 10 nos				1195.89
	Cost of each				119.59
	Say				119.60

10.28 Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2 kg(length approx. 1 feet)</i>				
	MATERIAL:				
	Qty= 2 .00 kg				
	Add wastage @ 5% = 0.10 kg				
	Total = 2.10 kg				
4001	Stainless steel (Grade-304)hollow section round / square tubes	kg	2.100	350.00	735.00
4002	Stainless steel bolts/square bar and plates	kg	1.000	130.00	130.00
	LABOUR:for fabrication, assembling, errection, welding, curvaturig, grinding, buffling etc.				
0102	Blacksmith 1 st class	day	0.060	435.00	26.10
0114	Beldar	day	0.200	329.00	65.80
0100	Bandhani	day	0.020	363.00	7.26
9999	Welding of stainless steel section	L.S.	30.000	1.78	53.40
9999	Curvaturig, grinding, finishing, buffing	L.S.	20.000	1.78	35.60
9999	Sundries for making good wall and floors	L.S.	7.500	1.78	13.35
	TOTAL				1066.51
	Add Water Charges @ 1%				10.67
	TOTAL				1077.18
	Add CPOH @ 15%				161.58
	Cost of 2 kg				1238.76
	Cost of 1 kg				619.38
	Say				619.40

10.29 Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.

10.29.1 Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window shutter 1.40x1.10=1.54 sqm</i>				
	MATERIAL :				
	Wire gauze 1.40x1.10=1.54 sqm				
	Add wastage @ 10 %=0.15 sqm				
	Total=1.69 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.690	260.00	439.40
9999	Carriage	L.S.	1.820	1.78	3.24
	M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre				
	Add wastage @ 5%=0.25 m				
	Total=5.25 m 5.25@0.35kg/m=1.84 kg				
1008	Flats up to 10 mm in thickness	quintal	0.018	4200.00	77.28
9999	Carriage	L.S.	1.820	1.78	3.24
	LABOUR:				
0103	Blacksmith 2nd class	day	0.170	399.00	67.83
0112	Carpenter 2nd class	day	0.170	399.00	67.83
0114	Beldar	day	0.060	329.00	19.74
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				713.73
	Add Water Charges @ 1%				7.14
	TOTAL				720.87
	Add CPOH @ 15%				108.13
	Cost of 1.54 sqm				829.00
	Cost of 1 sqm				538.31
	Say				538.30

10.29.2 Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window shutter 1.40x1.10=1.54 sqm</i>				
	MATERIAL :				
	Wire gauze 1.40x1.10=1.54 sqm				
	Add wastage @ 10 %=0.15 sqm				
	Total=1.69 sqm.				
8737	Stainless steel wire gauge (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.690	840.00	1419.60
9999	Carriage	L.S.	1.820	1.78	3.24
	M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre				
	Add wastage @ 5%=0.25 m				
	Total=5.25 m 5.25@0.35kg/m=1.84 kg				
1008	Flats up to 10 mm in thickness	quintal	0.018	4200.00	77.28
9999	Carriage	L.S.	1.820	1.78	3.24
	LABOUR:				
0103	Blacksmith 2nd class	day	0.170	399.00	67.83
0112	Carpenter 2nd class	day	0.170	399.00	67.83
0114	Beldar	day	0.060	329.00	19.74
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				1693.93
	Add Water Charges @ 1%				16.94
	TOTAL				1710.87
	Add CPOH @ 15%				256.63
	Cost of 1.54 sqm				1967.50
	Cost of 1 sqm				1277.60
	Say				1277.60

10.30 Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows all complete with :

10.30.1 4.0 mm thick glass panes

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 glass panes (area of each pane = 0.10 sqm)</i>				
	MATERIAL:				
	Area of glass panes =1.00 sqm +				
	Add wastage @ 10% = 0.10				
	Total =1.10 sqm				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.100	345.00	379.50
9999	Carriage	L.S.	1.820	1.78	3.24
	LABOUR:				
0119	Glazier	day	0.130	399.00	51.87
9999	Sundries, putty, glazing clips, scaffolding etc.	L.S.	125.580	1.78	223.53
	TOTAL				658.14
	Add Water Charges @ 1%				6.58
	TOTAL				664.72
	Add CPOH @ 15%				99.71
	Cost of 1 sqm				764.43
	Say				764.45

10.30 Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows all complete with :

10.30.2 5.5 mm thick glass panes

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 glass panes (area of each glass pane = 0.10 sqm)</i>				
	MATERIAL:				
	Area of glass panes =1.00 sqm +				
	Add wastage @ 10% = 0.10				
	Total =1.10 sqm				
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	1.100	520.00	572.00
9999	Carriage	L.S.	1.820	1.78	3.24
	LABOUR:				
0119	Glazier	day	0.130	399.00	51.87
9999	Sundries, putty, glazing clips, scaffolding etc.	L.S.	125.580	1.78	223.53
	TOTAL				850.64
	Add Water Charges @ 1%				8.51
	TOTAL				859.15
	Add CPOH @ 15%				128.87
	Cost of 1 sqm				988.02
	Say				988.00

SUB HEAD : 11.0

FLOORING

11.1 Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks:

11.1.1 1:4 (1 cement : 4 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.000	4500.00	2542.50
2201	Carriage of bricks	1000 Nos	565.000	283.96	160.44
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.434	4172.05	1810.67
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.020	94.65	1.89
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.080	399.00	430.92
0114	Beldar	day	0.250	329.00	82.25
0115	Coolie	day	1.620	329.00	532.98
0101	Bhisti	day	0.270	363.00	98.01
	TOTAL				5785.66
	Add Water Charges @ 1%				57.86
	TOTAL				5843.52
	Add CPOH @ 15%				876.53
	Cost of 10 sqm				6720.05
	Cost of 1 sqm				672.01
	Say				672.00

11.1.2 1:6 (1 cement : 6 coarse sand)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.000	4500.00	2542.50
2201	Carriage of bricks	1000 Nos	565.000	283.96	160.44
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.434	3340.75	1449.89
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.020	94.65	1.89
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.080	399.00	430.92
0114	Beldar	day	0.250	329.00	82.25
0115	Coolie	day	1.620	329.00	532.98
0101	Bhisti	day	0.270	363.00	98.01
	TOTAL				5424.88
	Add Water Charges @ 1%				54.25
	TOTAL				5479.13
	Add CPOH @ 15%				821.87
	Cost of 10 sqm				6301.00
	Cost of 1 sqm				630.10
	Say				630.10

11.2 Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	645.000	4500.00	2902.50
2201	Carriage of bricks	1000 Nos	645.000	283.96	183.15
0983	Fine sand (zone IV)	cum	0.150	700.00	105.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.150	106.49	15.97
	Mud Mortar				
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.150	403.30	60.50
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.900	399.00	359.10
0115	Coolie	day	1.980	329.00	651.42
0101	Bhisti	day	0.050	363.00	18.15
	TOTAL				4295.79
	Add Water Charges @ 1%				42.96
	TOTAL				4338.75
	Add CPOH @ 15%				650.81
	Cost of 10 sqm				4989.56
	Cost of 1 sqm				498.96
	Say				498.95

11.3 Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.

11.3.1 40 mm thick with 20 mm nominal size stone aggregate

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.267	1175.00	313.73
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.089	1175.00	104.57
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.356	106.49	37.91
0982	Coarse sand (zone III)	cum	0.178	1200.00	213.60
2203	Carriage of coarse sand	cum	0.178	106.49	18.96
0367	Portland Cement	tonne	0.170	6300.00	1071.00
2209	Carriage of cement	tonne	0.170	94.65	16.09
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	1.400	329.00	460.60
0101	Bhisti	day	1.040	363.00	377.52
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.030	435.00	13.05
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.030	800.00	24.00
9999	Sundries	L.S.	40.430	1.78	71.97
	TOTAL				3042.20
	Add Water Charges @ 1%				30.42
	TOTAL				3072.62
	Add CPOH @ 15%				460.89
	Cost of 10 sqm				3533.51
	Cost of 1 sqm				353.35
	Say				353.35

- 11.4** 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 10 sqm</i>					
MATERIAL:					
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.267	1175.00	313.73
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.089	1175.00	104.57
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.356	106.49	37.91
0982	Coarse sand (zone III)	cum	0.178	1200.00	213.60
2203	Carriage of coarse sand	cum	0.178	106.49	18.96
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	0.115	1140.00	131.10
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.115	106.49	12.25
0367	Portland Cement	tonne	0.211	6300.00	1329.30
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.231	94.65	21.86
7254	Hardening compound	litre	2.440	40.00	97.60
9999	Carriage of hardening compound	L.S.	2.730	1.78	4.86
LABOUR:					
0124	Mason (brick layer) 2nd class	day	2.150	399.00	857.85
0114	Beldar	day	1.600	329.00	526.40
0115	Coolie	day	1.880	329.00	618.52
0101	Bhisti	day	0.270	363.00	98.01
9999	Sundries	L.S.	53.820	1.78	95.80
TOTAL					4608.32
Add Water Charges @ 1%					46.08
TOTAL					4654.40
Add CPOH @ 15%					698.16
Cost of 10 sqm					5352.56
Cost of 1 sqm					535.26
Say					535.25

- 11.5** 62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufactures specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 10 sqm</i>					
MATERIAL:					
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.334	1175.00	392.45
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.111	1175.00	130.43
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.445	106.49	47.39
0982	Coarse sand (zone III)	cum	0.222	1200.00	266.40
2203	Carriage of coarse sand	cum	0.222	106.49	23.64
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	0.115	1140.00	131.10
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.115	106.49	12.25
0367	Portland Cement	tonne	0.243	6300.00	1530.90
0367	Portland Cement	tonne	0.020	6300.00	126.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of cement	tonne	0.263	94.65	24.89
7254	Hardening compound	litre	2.440	40.00	97.60
9999	Carriage of handening compound	L.S.	2.730	1.78	4.86
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	2.150	399.00	857.85
0114	Beldar	day	1.860	329.00	611.94
0115	Coolie	day	1.880	329.00	618.52
0101	Bhisti	day	0.270	363.00	98.01
9999	Sundries	L.S.	53.820	1.78	95.80
	TOTAL				5070.03
	Add Water Charges @ 1%				50.70
	TOTAL				5120.73
	Add CPOH @ 15%				768.11
	Cost of 10 sqm				5888.84
	Cost of 1 sqm				588.88
	Say				588.90

11.6 Cement plaster skirting upto 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.

11.6.1 18 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Cement mortar 1:3 = 0.205 cum+				
	Add for rounding corners = 0.030 cum= 0.235				
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.235	5003.35	1175.79
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.020	94.65	1.89
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.880	399.00	750.12
0115	Coolie	day	1.880	329.00	618.52
0101	Bhisti	day	0.540	363.00	196.02
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				2903.51
	Add Water Charges @ 1%				29.04
	TOTAL				2932.55
	Add CPOH @ 15%				439.88
	Cost of 10 sqm				3372.43
	Cost of 1 sqm				337.24
	Say				337.25

11.7 Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one cum</i>				
	MATERIAL:				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	1.000	5466.30	5466.30 A

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Extra labour for laying in floors etc.				
0124	Mason (brick layer) 2nd class	day	0.350	399.00	139.65
0114	Beldar	day	0.180	329.00	59.22
0101	Bhisti	day	0.050	363.00	18.15
9999	Sundries	L.S.	19.760	1.78	35.17
	TOTAL				5718.49
	Add Water Charges @ 1% except on A i.e on (5,718.49 - 5,466.30 =) 252.19				2.52
	TOTAL				5721.01
	Add CPOH @ 15% except on A i.e on (5,721.01 - 5,466.30 =) 254.71				38.21
	Cost of 1 cum				5759.22
	Say				5759.20

11.8 Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc..

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.360	399.00	143.64
0114	Beldar	day	0.360	329.00	118.44
9999	Chequered plate etc.	L.S.	13.520	1.78	24.07
	TOTAL				286.15
	Add Water Charges @ 1%				2.86
	TOTAL				289.01
	Add CPOH @ 15%				43.35
	Cost of 10 sqm				332.36
	Cost of 1 sqm				33.24
	Say				33.25

11.9 40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume including cement slurry etc. complete:

11.9.1 Dark shade pigment with ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 34mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.227	1175.00	266.73
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.076	1175.00	89.30
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.303	106.49	32.27
0982	Coarse sand (zone III)	cum	0.151	1200.00	181.20
2203	Carriage of coarse sand	cum	0.151	106.49	16.08
0367	Portland Cement	tonne	0.109	6300.00	686.70
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.129	94.65	12.21
	For top layer 6 mm thick				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.872	220.00	191.84
2268	Carriage of marble dust and/or marble chips	cum	0.051	106.49	5.43
0367	Portland Cement	tonne	0.041	6300.00	255.15
2209	Carriage of cement	tonne	0.041	94.65	3.83
0784	Marble dust/ powder	cum	0.007	1000.00	7.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0874	Black colour dark shade pigment 3.5kg/ 50kg of cement= 40.5x3.5/50=2.84kg	kilogram	2.840	55.00	156.20
9999	Carriage of pigment & marble powder etc. LABOUR:	L.S.	3.640	1.78	6.48
0124	Mason (brick layer) 2nd class	day	1.790	399.00	714.21
0114	Beldar	day	1.990	329.00	654.71
0101	Bhisti	day	1.040	363.00	377.52
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.030	435.00	13.05
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.030	800.00	24.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries	L.S.	161.460	1.78	287.40
	TOTAL				5030.31
	Add Water Charges @ 1%				50.30
	TOTAL				5080.61
	Add CPOH @ 15%				762.09
	Cost of 10 sqm				5842.70
	Cost of 1 sqm				584.27
	Say				584.25

11.9.2 Light shade pigment with white cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.9.1	Rate as per Item Number 11.9.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigmentAdd for	sqm	10.000	584.25	5842.50 A
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.840	75.00	213.00
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.840	55.00	-156.20
	Add difference of cost due to using white cement instead of grey cementAdd for				
0368	White Cement	tonne	0.041	14000.00	567.00
	Deduct for				
0367	Portland Cement	tonne	-0.041	6300.00	-255.15
	TOTAL				6211.15
	Add Water Charges @ 1% except on A i.e on (6,211.15 - 5,842.50 =) 368.65				3.69
	TOTAL				6214.84
	Add CPOH @ 15% except on A i.e on (6,214.84 - 5,842.50 =) 372.34				55.85
	Cost of 10 sqm				6270.69
	Cost of 1 sqm				627.07
	Say				627.05

11.9.3 Medium shade pigment with 50% white cement and 50% ordinary cement					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.9.1	Rate as per Item Number 11.9.1 of SH: Flooring	sqm	10.000	584.25	5842.50 A
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0876	Add for Green or blue medium shade pigment	kilogram	2.840	70.00	198.80
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.840	55.00	-156.20
	Add difference of cost due to using white cement instead of grey cement				
0368	Add for White Cement	tonne	0.020	14000.00	284.20
	Deduct for				
0367	Portland Cement	tonne	-0.020	6300.00	-127.89
	TOTAL				6041.41
	Add Water Charges @ 1% except on A i.e on (6,041.41 - 5,842.50 =) 198.91				1.99
	TOTAL				6043.40
	Add CPOH @ 15% except on A i.e on (6,043.40 - 5,842.50 =) 200.90				30.14
	Cost of 10 sqm				6073.54
	Cost of 1 sqm				607.35
	Say				607.35

11.9.4 White cement without any pigment					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 34mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.227	1175.00	266.73
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.076	1175.00	89.30
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.303	106.49	32.27
0982	Coarse sand (zone III)	cum	0.151	1200.00	181.20
2203	Carriage of coarse sand	cum	0.151	106.49	16.08
0367	Portland Cement	tonne	0.109	6300.00	686.70
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.129	94.65	12.21
	For top layer 6 mm thick				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.958	220.00	210.76
2268	Carriage of marble dust and/or marble chips	cum	0.056	106.49	5.96
0368	White Cement	tonne	0.041	14000.00	567.00
2209	Carriage of cement	tonne	0.041	94.65	3.83
0784	Marble dust/ powder	cum	0.007	1000.00	7.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.790	399.00	714.21
0114	Beldar	day	1.990	329.00	654.71
0101	Bhisti	day	1.040	363.00	377.52
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.030	435.00	13.05
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.030	800.00	24.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries	L.S.	161.460	1.78	287.40
	TOTAL				5198.93
	Add Water Charges @ 1%				51.99
	TOTAL				5250.92
	Add CPOH @ 15%				787.64
	Cost of 10 sqm				6038.56
	Cost of 1 sqm				603.86
	Say				603.85

11.9.5 Light shade pigment with ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
11.9.1	Rate as per Item Number 11.9.1 of SH: Flooring	sqm	10.000	584.25	5842.50 A
	Add difference of cost due to using lightshade pigment instead of dark shade pigment				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.840	75.00	213.00
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.840	55.00	-156.20
	TOTAL				5899.30
	Add Water Charges @ 1% except on A i.e on (5,899.30 - 5,842.50 =) 56.80				0.57
	TOTAL				5899.87
	Add CPOH @ 15% except on A i.e on (5,899.87 - 5,842.50 =) 57.37				8.61
	Cost of 10 sqm				5908.48
	Cost of 1 sqm				590.85
	Say				590.85

11.9.6 Ordinary cement without any pigment

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.9.1	Rate as per Item Number 11.9.1 of SH: Flooring	sqm	10.000	584.25	5842.50 A
	less cost of dark shade pigment				
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.840	55.00	-156.20
9999	Deduct for carriage of pigment	L.S.	-7.380	1.78	-13.14
	TOTAL				5673.16
	Add Water Charges @ 1% except on A i.e on (5,673.16 - 5,842.50 =) -169.34				-1.69
	TOTAL				5671.47
	Add CPOH @ 15% except on A i.e on (5,671.47 - 5,842.50 =) -171.03				-25.65
	Cost of 10 sqm				5645.82
	Cost of 1 sqm				564.58
	Say				564.60

11.10 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 9 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4 mm to 7 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder : 7 marble chips) by volume, including cement slurry etc. complete.

11.10.1 Dark shade pigment with Ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
	Details of cost for 10 sqm				
	For under layer of 31mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.210	1175.00	246.75
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.070	1175.00	82.25
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.280	106.49	29.82
0982	Coarse sand (zone III)	cum	0.140	1200.00	168.00
2203	Carriage of coarse sand	cum	0.140	106.49	14.91
0367	Portland Cement	tonne	0.101	6300.00	633.15
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.121	94.65	11.41
	For top layer 9 mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.400	210.00	294.00
2268	Carriage of marble dust and/or marble chips	cum	0.082	106.49	8.73
0367	Portland Cement	tonne	0.058	6300.00	364.14
2209	Carriage of cement	tonne	0.058	94.65	5.47
0784	Marble dust/ powder	cum	0.012	1000.00	12.00
0874	Black colour dark shade pigment	kilogram	4.050	55.00	222.75
	3.5kg/ 50kg of cement= 57.80x3.5/50=4.05kg				
9999	Carriage of pigment & marble powder etc.	L.S.	5.460	1.78	9.72
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.790	399.00	714.21
0114	Beldar	day	1.990	329.00	654.71
0101	Bhisti	day	1.040	363.00	377.52
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.030	435.00	13.05
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.030	800.00	24.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries	L.S.	134.550	1.78	239.50
	TOTAL				5175.09
	Add Water Charges @ 1%				51.75
	TOTAL				5226.84
	Add CPOH @ 15%				784.03
	Cost of 10 sqm				6010.87
	Cost of 1 sqm				601.09
	Say				601.10

11.10.2 Light shade pigment with white cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm				
11.10.1	Rate as per Item Number 11.10.1 of SH: Flooring	sqm	10.000	601.10	6011.00 A
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	4.050	75.00	303.75
	Deduct for				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0874	Black colour dark shade pigment	kilogram	-4.050	55.00	-222.75
	Add difference of cost due to using whitecement instead of grey cementAdd for				
0368	White Cement	tonne	0.058	14000.00	809.20
	Deduct for				
0367	Portland Cement	tonne	-0.058	6300.00	-364.14
	TOTAL				6537.06
	Add Water Charges @ 1% except on A i.e on (6,537.06 - 6,011.00 =) 526.06				5.26
	TOTAL				6542.32
	Add CPOH @ 15% except on A i.e on (6,542.32 - 6,011.00 =) 531.32				79.70
	Cost of 10 sqm				6622.02
	Cost of 1 sqm				662.20
	Say				662.20

11.10.3 Medium shade pigment with 50% white cement and 50% ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.10.1	Rate as per Item Number 11.10.1 of SH: Flooring	sqm	10.000	601.10	6011.00 A
	Add difference of cost due to using light shade pigment instead of dark shade pigmentAdd for				
0876	Green or blue medium shade pigment	kilogram	4.050	70.00	283.50
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-4.050	55.00	-222.75
	Add difference of cost due to using whitecement instead of grey cementAdd for				
0368	White Cement	tonne	0.029	14000.00	404.60
	Deduct for				
0367	Portland Cement	tonne	-0.029	6300.00	-182.07
	TOTAL				6294.28
	Add Water Charges @ 1% except on A i.e on (6,294.28 - 6,011.00 =) 283.28				2.83
	TOTAL				6297.11
	Add CPOH @ 15% except on A i.e on (6,297.11 - 6,011.00 =) 286.11				42.92
	Cost of 10 sqm				6340.03
	Cost of 1 sqm				634.00
	Say				634.00

11.10.4 White cement without any pigment

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 31mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.210	1175.00	246.75
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.070	1175.00	82.25
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.280	106.49	29.82
0982	Coarse sand (zone III)	cum	0.140	1200.00	168.00
2203	Carriage of coarse sand	cum	0.140	106.49	14.91
0367	Portland Cement	tonne	0.101	6300.00	633.15
0367	Portland Cement	tonne	0.020	6300.00	126.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of cement For top layer 9 mm thick	tonne	0.121	94.65	11.41
0788	Marble chips large size above 4 mm White & black	quintal	1.400	210.00	294.00
2268	Carriage of marble dust and/or marble chips	cum	0.082	106.49	8.73
0368	White Cement	tonne	0.058	14000.00	809.20
2209	Carriage of cement	tonne	0.058	94.65	5.47
0784	Marble dust/ powder	cum	0.012	1000.00	12.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.790	399.00	714.21
0114	Beldar	day	1.990	329.00	654.71
0101	Bhisti	day	1.040	363.00	377.52
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.030	435.00	13.05
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.030	800.00	24.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries	L.S.	161.460	1.78	287.40
	TOTAL				5435.58
	Add Water Charges @ 1%				54.36
	TOTAL				5489.94
	Add CPOH @ 15%				823.49
	Cost of 10 sqm				6313.43
	Cost of 1 sqm				631.34
	Say				631.35

11.10.5 Light shade pigment with ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.10.1	Rate as per Item Number 11.10.1 of SH: Flooring	sqm	10.000	601.10	6011.00 A
	Add difference of cost due to using lightshade pigment instead of dark shade pigmentAdd for				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.840	75.00	213.00
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.840	55.00	-156.20
	TOTAL				6067.80
	Add Water Charges @ 1% except on A i.e on (6,067.80 - 6,011.00 =) 56.80				0.57
	TOTAL				6068.37
	Add CPOH @ 15% except on A i.e on (6,068.37 - 6,011.00 =) 57.37				8.61
	Cost of 10 sqm				6076.98
	Cost of 1 sqm				607.70
	Say				607.70

11.10.6 Ordinary cement without any pigment

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 31mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.210	1175.00	246.75
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.070	1175.00	82.25
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.280	106.49	29.82
0982	Coarse sand (zone III)	cum	0.140	1200.00	168.00
2203	Carriage of coarse sand	cum	0.140	106.49	14.91
0367	Portland Cement	tonne	0.101	6300.00	633.15
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.121	94.65	11.41
	For top layer 9 mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.400	210.00	294.00
2268	Carriage of marble dust and/or marble chips	cum	0.082	106.49	8.73
0367	Portland Cement	tonne	0.058	6300.00	364.14
2209	Carriage of cement	tonne	0.058	94.65	5.47
0784	Marble dust/ powder	cum	0.012	1000.00	12.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.790	399.00	714.21
0114	Beldar	day	1.990	329.00	654.71
0101	Bhisti	day	1.040	363.00	377.52
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.030	435.00	13.05
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.030	800.00	24.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries	L.S.	134.550	1.78	239.50
	TOTAL				4942.62
	Add Water Charges @ 1%				49.43
	TOTAL				4992.05
	Add CPOH @ 15%				748.81
	Cost of 10 sqm				5740.86
	Cost of 1 sqm				574.09
	Say				574.10

11.11 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 12 mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7 mm to 10 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume, including cement Slurry etc. complete:

11.11.1 Dark shade pigment with ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 28mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.190	1175.00	223.25
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.060	1175.00	70.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.250	106.49	26.62
0982	Coarse sand (zone III)	cum	0.125	1200.00	150.00
2203	Carriage of coarse sand	cum	0.125	106.49	13.31
0367	Portland Cement	tonne	0.090	6300.00	565.11
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.110	94.65	10.38
	For top layer 12mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.734	210.00	364.14

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2268	Carriage of marble dust and/or marble chips	cum	0.102	106.49	10.86
0367	Portland Cement	tonne	0.081	6300.00	510.30
2209	Carriage of cement	tonne	0.081	94.65	7.67
0784	Marble dust/ powder	cum	0.017	1000.00	17.00
0874	Black colour dark shade pigment @ 3.5kg/50kg of cement= 81x3.5/50=5.67kg	kilogram	5.670	55.00	311.85
9999	Carriage of pigment & marble powder etc. LABOUR:	L.S.	6.240	1.78	11.11
0124	Mason (brick layer) 2nd class	day	1.790	399.00	714.21
0114	Beldar	day	1.990	329.00	654.71
0101	Bhisti	day	1.040	363.00	377.52
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.030	435.00	13.05
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.030	800.00	24.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries	L.S.	156.130	1.78	277.91
	TOTAL				5402.50
	Add Water Charges @ 1%				54.02
	TOTAL				5456.52
	Add CPOH @ 15%				818.48
	Cost of 10 sqm				6275.00
	Cost of 1 sqm				627.50
	Say				627.50

11.11.2 Light shade pigment with white cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.11.1	Rate as per Item Number 11.11.1 of SH: Flooring	sqm	10.000	627.50	6275.00 A
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	5.670	75.00	425.25
	Deduct				
0874	Black colour dark shade pigment	kilogram	-5.670	55.00	-311.85
	Add difference of cost due to using white cement instead of grey cementAdd for				
0368	White Cement	tonne	0.081	14000.00	1134.00
	Deduct for				
0367	Portland Cement	tonne	-0.081	6300.00	-510.30
	TOTAL				7012.10
	Add Water Charges @ 1% except on A i.e on (7,012.10 - 6,275.00 =) 737.10				7.37
	TOTAL				7019.47
	Add CPOH @ 15% except on A i.e on (7,019.47 - 6,275.00 =) 744.47				111.67
	Cost of 10 sqm				7131.14
	Cost of 1 sqm				713.11
	Say				713.10

11.11.3 Medium shade pigment with 50% white cement and 50% ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.11.1	Rate as per Item Number 11.11.1 of SH: Flooring	sqm	10.000	627.50	6275.00 A
	Add difference of cost due to using medium shade pigment instead of dark shade pigment				
0876	Add for Green or blue medium shade pigment	kilogram	5.670	70.00	396.90
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-5.670	55.00	-311.85
	Add difference of cost due to using white cement instead of grey cement				
0368	White Cement	tonne	0.041	14000.00	567.00
	Deduct				
0367	Portland Cement	tonne	-0.041	6300.00	-255.15
	TOTAL				6671.90
	Add Water Charges @ 1% except on A i.e on (6,671.90 - 6,275.00 =) 396.90				3.97
	TOTAL				6675.87
	Add CPOH @ 15% except on A i.e on (6,675.87 - 6,275.00 =) 400.87				60.13
	Cost of 10 sqm				6736.00
	Cost of 1 sqm				673.60
	Say				673.60

11.11.4 White cement without any pigment

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 28mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.190	1175.00	223.25
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.060	1175.00	70.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.250	106.49	26.62
0982	Coarse sand (zone III)	cum	0.125	1200.00	150.00
2203	Carriage of coarse sand	cum	0.125	106.49	13.31
0367	Portland Cement	tonne	0.090	6300.00	565.11
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.110	94.65	10.38
	For top layer 12mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.916	210.00	402.36
2268	Carriage of marble dust and/or marble chips	cum	0.113	106.49	12.01
0368	White Cement	tonne	0.081	14000.00	1134.00
2209	Carriage of cement	tonne	0.081	94.65	7.67
0784	Marble dust/ powder	cum	0.017	1000.00	17.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.790	399.00	714.21
0114	Beldar	day	1.990	329.00	654.71
0101	Bhisti	day	1.040	363.00	377.52
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.030	435.00	13.05
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.030	800.00	24.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	134.550	1.78	239.50
	TOTAL				5704.20
	Add Water Charges @ 1%				57.04
	TOTAL				5761.24
	Add CPOH @ 15%				864.19
	Cost of 10 sqm				6625.43
	Cost of 1 sqm				662.54
	Say				662.55
11.11.5 Light shade pigment with ordinary cement					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.11.1	Rate as per Item Number 11.11.1 of SH: Flooring	sqm	10.000	627.50	6275.00 A
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	5.670	75.00	425.25
0874	Deduct for Black colour dark shade pigment	kilogram	-5.670	55.00	-311.85
	TOTAL				6388.40
	Add Water Charges @ 1% except on A i.e on (6,388.40 - 6,275.00 =)				113.40
	TOTAL				6389.53
	Add CPOH @ 15% except on A i.e on (6,389.53 - 6,275.00 =)				114.53
	Cost of 10 sqm				6406.71
	Cost of 1 sqm				640.67
	Say				640.65
11.11.6 Ordinary cement without any pigment					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 28mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.190	1175.00	223.25
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.060	1175.00	70.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.250	106.49	26.62
0982	Coarse sand (zone III)	cum	0.125	1200.00	150.00
2203	Carriage of coarse sand	cum	0.125	106.49	13.31
0367	Portland Cement	tonne	0.090	6300.00	565.11
0367	Portland Cement	tonne	0.020	6300.00	126.00
2209	Carriage of cement	tonne	0.110	94.65	10.38
	for top layer 12mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.916	210.00	402.36
2268	Carriage of marble dust and/or marble chips	cum	0.113	106.49	12.01
0367	Portland Cement	tonne	0.081	6300.00	510.30
2209	Carriage of cement	tonne	0.081	94.65	7.67
0784	Marble dust/ powder	cum	0.017	1000.00	17.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.790	399.00	714.21
0114	Beldar	day	1.990	329.00	654.71
0101	Bhisti	day	1.040	363.00	377.52
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.030	435.00	13.05

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.030	800.00	24.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries	L.S.	134.550	1.78	239.50
	TOTAL				5080.50
	Add Water Charges @ 1%				50.80
	TOTAL				5131.30
	Add CPOH @ 15%				769.70
	Cost of 10 sqm				5901.00
	Cost of 1 sqm				590.10
	Say				590.10
11.12	Marble chips skirting upto 30 cm height, rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4 mm nominal size, laid in cement marble powder mix 3 : 1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume :				
11.12.1	18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand)				
11.12.1.1	Dark shade pigment with ordinary cement				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 12mm thick cement mortar 1:3 =				
	0.144+Extra for rounding = 0.03 =0.174 cum				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.174	5003.35	870.58
	Top layer 6mm thick				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.872	220.00	191.84
2268	Carriage of marble dust and/or marble chips	cum	0.051	106.49	5.43
0367	Portland Cement	tonne	0.041	6300.00	255.15
2209	Carriage of cement	tonne	0.041	94.65	3.83
0784	Marble dust/ powder	cum	0.007	1000.00	7.00
0874	Black colour dark shade pigment	kilogram	2.840	55.00	156.20
	@ 3.5kg/50kg of cement =40.5x3.5/50=2.84kg				
9999	Carriage of pigment & marble powder etc.	L.S.	3.640	1.78	6.48
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.000	399.00	1197.00
0114	Beldar	day	3.000	329.00	987.00
0101	Bhisti	day	1.000	363.00	363.00
0139	Skilled Beldar (for floor rubbing etc.)	day	7.000	363.00	2541.00
9999	Sundries	L.S.	201.890	1.78	359.36
	TOTAL				6943.87
	Add Water Charges @ 1%				69.44
	TOTAL				7013.31
	Add CPOH @ 15%				1052.00
	Cost of 10 sqm				8065.31
	Cost of 1 sqm				806.53
	Say				806.55

11.12.1.2 Light shade pigment with white cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.000	806.55	8065.50 A
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.840	75.00	213.00
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.840	55.00	-156.20
	Add difference of cost due to using white cement instead of grey cement				
0368	Add for White Cement	tonne	0.041	14000.00	567.00
	Deduct for				
0367	Portland Cement	tonne	-0.041	6300.00	-255.15
	TOTAL				8434.15
	Add Water Charges @ 1% except on A i.e on (8,434.15 - 8,065.50 =) 368.65				3.69
	TOTAL				8437.84
	Add CPOH @ 15% except on A i.e on (8,437.84 - 8,065.50 =) 372.34				55.85
	Cost of 10 sqm				8493.69
	Cost of 1 sqm				849.37
	Say				849.35

11.12.1.3 Medium shade pigment with 50% white cement and 50% ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.000	806.55	8065.50 A
	Add difference of cost due to using medium shade pigment instead of dark shade pigment				
0876	Add for Green or blue medium shade pigment	kilogram	2.840	70.00	198.80
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.840	55.00	-156.20
	Add difference of cost due to using white cement instead of grey cement				
0368	Add for White Cement	tonne	0.020	14000.00	284.20
	Deduct for				
0367	Portland Cement	tonne	-0.020	6300.00	-127.89
	TOTAL				8264.41
	Add Water Charges @ 1% except on A i.e on (8,264.41 - 8,065.50 =) 198.91				1.99
	TOTAL				8266.40
	Add CPOH @ 15% except on A i.e on (8,266.40 - 8,065.50 =) 200.90				30.14
	Cost of 10 sqm				8296.54
	Cost of 1 sqm				829.65
	Say				829.65

11.12.1.4 White cement without any pigment

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 12mm thick cement mortar				
	1:3 = 0.144+				
	Extra for rounding = 0.03				
	Total =0.174 cum				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.174	5003.35	870.58
	Top layer 6mm thick				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.958	220.00	210.76
2268	Carriage of marble dust and/or marble chips	cum	0.056	106.49	5.96
0368	White Cement	tonne	0.041	14000.00	567.00
2209	Carriage of cement	tonne	0.041	94.65	3.83
0784	Marble dust/ powder	cum	0.007	1000.00	7.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.000	399.00	1197.00
0114	Beldar	day	3.000	329.00	987.00
0101	Bhisti	day	1.000	363.00	363.00
0139	Skilled Beldar (for floor rubbing etc.)	day	7.000	363.00	2541.00
9999	Sundries	L.S.	201.890	1.78	359.36
	TOTAL				7112.49
	Add Water Charges @ 1%				71.12
	TOTAL				7183.61
	Add CPOH @ 15%				1077.54
	Cost of 10 sqm				8261.15
	Cost of 1 sqm				826.12
	Say				826.10

11.12.1.5 Light shade pigment with ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.000	806.55	8065.50 A
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
	Add for				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.840	75.00	213.00
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.840	55.00	-156.20
	TOTAL				8122.30
	Add Water Charges @ 1% except on A i.e on (8,122.30 - 8,065.50 =) 56.80				0.57
	TOTAL				8122.87
	Add CPOH @ 15% except on A i.e on (8,122.87 - 8,065.50 =) 57.37				8.61
	Cost of 10 sqm				8131.48
	Cost of 1 sqm				813.15
	Say				813.15

11.12.1.6 Ordinary cement without any pigment

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 10 sqm</i>					
11.12.1.1	Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.000	806.55	8065.50 A
	Less cost of dark shade pigment				
	Deduct for				
0874	Black colour dark shade pigment	kilogram	-2.840	55.00	-156.20
9999	Deduct for carriage of pigment and marble dust	L.S.	-3.640	1.78	-6.48
2268	Carriage of marble dust and/or marble chips	cum	0.007	106.49	0.75
	TOTAL				7903.57
	Add Water Charges @ 1% except on A i.e on (7,903.57 - 8,065.50 =) -161.93				-1.62
	TOTAL				7901.95
	Add CPOH @ 15% except on A i.e on (7,901.95 - 8,065.50 =) -163.55				-24.53
	Cost of 10 sqm				7877.42
	Cost of 1 sqm				787.74
	Say				787.75

11.13 Providing and fixing glass strips in joints of terrazo / cement concrete floors.**11.13.1 40 mm wide and 4 mm thick**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 10 metre length</i>					
MATERIAL:					
Glass strips = 10m					
Add 10% for wastage = 1m					
Total = 11m					
1149	Glass strip 4 mm thick 40 mm deep	metre	11.000	20.00	220.00
9999	Carriage of glass.	L.S.	2.730	1.78	4.86
LABOUR:					
0124	Mason (brick layer) 2nd class	day	0.250	399.00	99.75
0114	Beldar	day	0.250	329.00	82.25
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				430.93
	Add Water Charges @ 1%				4.31
	TOTAL				435.24
	Add CPOH @ 15%				65.29
	Cost of 10 metre				500.53
	Cost of 1 metre				50.05
	Say				50.05

11.14 Extra for laying terrazo flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc..

Code No	Description	Unit	Quantity	Rate	Amount
<i>Details of cost for 10 sqm</i>					
LABOUR:					
0124	Mason (brick layer) 2nd class	day	0.300	399.00	119.70
0114	Beldar	day	0.300	329.00	98.70

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.300	329.00	98.70
	TOTAL				317.10
	Add Water Charges @ 1%				3.17
	TOTAL				320.27
	Add CPOH @ 15%				48.04
	Cost of 10 sqm				368.31
	Cost of 1 sqm				36.83
	Say				36.85
11.15	Crazy marble stone flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishing and cement slurry etc. complete:				
11.15.1	18 mm thick crazy marble stone white, black or as specified				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Under layer 25mm thick of cementConcrete 1:2:4 -10 x 0.025=0.25 cum				
11.7	Rate as per Item Number 11.7 of SH: Flooring Cement slurry for subgrade and under large cement	cum	0.250	5759.20	1439.80 A
0367	Portland Cement	tonne	0.040	6300.00	252.00
2209	Carriage of cement	tonne	0.040	94.65	3.79
	LABOUR:				
	Labour for applying cement slurry				
0114	Beldar	day	0.500	329.00	164.50
	Top layer with marble pieces and gap filling with marble powder mixture Marble pieces for crazy flooring (Assume 70% of marble stone are and 30% of joint filer/mixture 7sqmx0.02m = 0.14 cum0.872x0.14/0.051 = 2.40q				
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	2.400	172.00	412.80
0368	White Cement	tonne	0.041	14000.00	567.00
0784	Marble dust/ powder	cum	0.007	1000.00	7.00
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.840	75.00	213.00
	@ 3.5kg/50kg of cement = 40.5x3.5/50=2.84kg				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.872	220.00	191.84
2268	Carriage of marble dust and/or marble chips	cum	0.051	106.49	5.43
2209	Carriage of cement	tonne	0.041	94.65	3.83
9999	Carriage of pigment & marble powder.	L.S.	3.640	1.78	6.48
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.240	94.65	22.72
	Labour for finishing, polishing and fixing-				
0123	Mason (brick layer) 1 st class	day	1.200	435.00	522.00
0114	Beldar	day	1.000	329.00	329.00
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries including carboranadum etc.	L.S.	134.550	1.78	239.50
0101	Bhisti	day	0.540	363.00	196.02
0013	Machine for rubbing of floors	day	4.000	350.00	1400.00
	TOTAL				8120.71
	Add Water Charges @ 1% except on A i.e on (8,120.71 - 1,439.80 =) 6,680.91				66.81
	TOTAL				8187.52
	Add CPOH @ 15% except on A i.e on (8,187.52 - 1,439.80 =) 6,747.72				1012.16
	Cost of 10 sqm				9199.68
	Cost of 1 sqm				919.97
	Say				919.95
11.16	Precast terrazzo tiles 22 mm thick with graded marble chips of size upto 12 mm, laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :				
11.16.1	Light shade pigment using white cement				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1201	Precast terrazzo tiles 22 mm thick (light shade) including 10% wastage	sqm	11.000	350.00	3850.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4 (1 Cement : 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
0367	Portland Cement	tonne	0.044	6300.00	277.20
	Grey cement for slurry @ 4.4kg/sqm.				
0368	White Cement	tonne	0.044	14000.00	616.00
	for grouting				
2209	Carriage of cement	tonne	0.088	94.65	8.33
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.080	75.00	231.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0101	Bhisti	day	1.000	363.00	363.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries including carborantum stone etc.	L.S.	161.980	1.78	288.32
	TOTAL				8859.76
	Add Water Charges @ 1%				88.60
	TOTAL				8948.36
	Add CPOH @ 15%				1342.25
	Cost of 10 sqm				10290.61
	Cost of 1 sqm				1029.06
	Say				1029.05

11.16.2 Medium shade pigment using 50% white cement and 50% ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1202	Precast terrazzo tiles 22 mm thick (medium shade) including 10% wastage	sqm	11.000	300.00	3300.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4 (1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Grey cement				
	(i) for slurry @ 4.4kg/sqm = 44 kg. +				
	(ii) 50% for grouting = 22kg.				
	Total = 66kg or 0.066 tonne				
0367	Portland Cement	tonne	0.066	6300.00	415.80
	50% white cement for grouting				
0368	White Cement	tonne	0.022	14000.00	308.00
2209	Carriage of cement	tonne	0.088	94.65	8.33
0876	Green or blue medium shade pigment	kilogram	3.080	70.00	215.60
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0101	Bhisti	day	1.000	363.00	363.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.980	1.78	288.32
	TOTAL				8124.96
	Add Water Charges @ 1%				81.25
	TOTAL				8206.21
	Add CPOH @ 15%				1230.93
	Cost of 10 sqm				9437.14
	Cost of 1 sqm				943.71
	Say				943.70

11.16 Precast terrazzo tiles 22 mm thick with graded marble chips of size upto 12 mm, laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand):**11.16.3 Dark shade pigment using ordinary cement**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade) including 10% wastage	sqm	11.000	300.00	3300.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4 (1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg + (ii) Grouting = 44 kg. Total - 88kg or 0.088 tonne				
0367	Portland Cement	tonne	0.088	6300.00	554.40
2209	Carriage of cement	tonne	0.088	94.65	8.33

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0874	Black colour dark shade pigment	kilogram	3.080	55.00	169.40
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0101	Bhisti	day	1.000	363.00	363.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.980	1.78	288.32
	TOTAL				7909.36
	Add Water Charges @ 1%				79.09
	TOTAL				7988.45
	Add CPOH @ 15%				1198.27
	Cost of 10 sqm				9186.72
	Cost of 1 sqm				918.67
	Say				918.65

11.16.4 Ordinary cement without any pigment

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade) including 10% wastage	sqm	11.000	300.00	3300.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4(1Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Ordinary cement for				
	(i) Cement slurry @4.4kg/sqm =44kg+				
	(ii) Grouting = 44 kg.				
	Total = 88kg or 0.088 tonne				
0367	Portland Cement	tonne	0.088	6300.00	554.40
2209	Carriage of cement	tonne	0.088	94.65	8.33
0874	Black colour dark shade pigment	kilogram	3.080	55.00	169.40
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0101	Bhisti	day	1.000	363.00	363.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.980	1.78	288.32
	Less for dark shade pigment [3.08+2.84(for tiles)]				
0874	Black colour dark shade pigment	kilogram	-5.920	55.00	-325.60
	TOTAL				7583.76
	Add Water Charges @ 1%				75.84
	TOTAL				7659.60
	Add CPOH @ 15%				1148.94
	Cost of 10 sqm				8808.54
	Cost of 1 sqm				880.85
	Say				880.85

11.17 Extra if terrazzo tiles are laid in treads of steps not exceeding 30 cm in width.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.220	399.00	87.78
0115	Coolie	day	0.220	329.00	72.38
0139	Skilled Beldar (for floor rubbing etc.)	day	0.650	363.00	235.95
	TOTAL				396.11
	Add Water Charges @ 1%				3.96
	TOTAL				400.07
	Add CPOH @ 15%				60.01
	Cost of 10 sqm				460.08
	Cost of 1 sqm				46.01
	Say				46.00

11.18 Precast terrazzo tiles 22 mm thick with graded marble chips of sizes upto 12 mm, in skirting and risers of steps not exceeding 30 cm in height, on 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sand), jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete with tiles of :**11.18.1 Light shade pigment using white cement**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1201	Precast terrazzo tiles 22 mm thick (light shade) including 10% wastage	sqm	11.000	350.00	3850.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1 :3 (1Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	5003.35	720.48
0368	White Cement	tonne	0.066	14000.00	924.00
	For slurryFor buttering tiles bed sides =44 kg. + For grouting =22 kg. Total = 66 kg				
2209	Carriage of cement	tonne	0.066	94.65	6.25
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment 66x3.5/50 = 4.62	kilogram	4.620	75.00	346.50
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.250	399.00	1296.75
0115	Coolie	day	3.250	329.00	1069.25
0139	Skilled Beldar (for floor rubbing etc.)	day	7.600	363.00	2758.80
9999	Sundries including carboranadum stone and	L.S.	161.460	1.78	287.40
	TOTAL				11331.40
	Add Water Charges @ 1%				113.31
	TOTAL				11444.71
	Add CPOH @ 15%				1716.71
	Cost of 10 sqm				13161.42
	Cost of 1 sqm				1316.14
	Say				1316.15

11.18.2 Medium shades pigment using 50% white cement and 50% ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1202	Precast terrazzo tiles 22 mm thick(medium shade) including wastage & breakage	sqm	11.000	300.00	3300.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:3(1 Cement: 3 Coarse sand)				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	5003.35	720.48
	50% white cement for slurry				
0368	White Cement	tonne	0.033	14000.00	462.00
	50% grey cement for slurry				
0367	Portland Cement	tonne	0.033	6300.00	207.90
2209	Carriage of cement	tonne	0.066	94.65	6.25
0876	Green or blue medium shade pigment	kilogram	4.620	70.00	323.40
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.250	399.00	1296.75
0115	Coolie	day	3.250	329.00	1069.25
0139	Skilled Beldar (for floor rubbing etc.)	day	7.600	363.00	2758.80
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.460	1.78	287.40
	TOTAL				10504.20
	Add Water Charges @ 1%				105.04
	TOTAL				10609.24
	Add CPOH @ 15%				1591.39
	Cost of 10 sqm				12200.63
	Cost of 1 sqm				1220.06
	Say				1220.05

11.18.3 Dark shade pigment using ordinary cement

Code No	Description	Unit	Quantity	Rate	Amount
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade) including wastage & breakage	sqm	11.000	300.00	3300.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar. 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	5003.35	720.48
	Grey cement for slurry				
0367	Portland Cement	tonne	0.066	6300.00	415.80
2209	Carriage of cement	tonne	0.066	94.65	6.25
0874	Black colour dark shade pigment	kilogram	4.620	55.00	254.10
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.250	399.00	1296.75
0115	Coolie	day	3.250	329.00	1069.25
0139	Skilled Beldar (for floor rubbing etc.)	day	7.600	363.00	2758.80
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.460	1.78	287.40
	TOTAL				10180.80
	Add Water Charges @ 1%				101.81
	TOTAL				10282.61
	Add CPOH @ 15%				1542.39
	Cost of 10 sqm				11825.00
	Cost of 1 sqm				1182.50
	Say				1182.50

11.18.4 Ordinary cement without any pigment

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade) including wastage & breakage	sqm	11.000	300.00	3300.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	5003.35	720.48
	Grey cement for sturry				
0367	Portland Cement	tonne	0.066	6300.00	415.80
2209	Carriage of cement	tonne	0.066	94.65	6.25
0874	Black colour dark shade pigment	kilogram	4.620	55.00	254.10
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.250	399.00	1296.75
0115	Coolie	day	3.250	329.00	1069.25
0139	Skilled Beldar (for floor rubbing etc.)	day	7.600	363.00	2758.80
9999	Sundries including carboradum stone and polishing powder etc.	L.S.	161.460	1.78	287.40
	Less for dark shade pigment [4.62+2.84(for tiles)]				
0874	Black colour dark shade pigment	kilogram	-7.460	55.00	-410.30
	TOTAL				9770.50
	Add Water Charges @ 1%				97.70
	TOTAL				9868.20
	Add CPOH @ 15%				1480.23
	Cost of 10 sqm				11348.43
	Cost of 1 sqm				1134.84
	Say				1134.85
11.19	Chequered terrazzo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :				
11.19.1	Light shade pigment using white cement				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1227	Chequered terrazzo tiles 22 mm thick(light shade) including 10% wastage	sqm	11.000	275.00	3025.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4 (1 Cement : 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Grey cement for slurry @ 4.4kg/sqm				
0367	Portland Cement	tonne	0.044	6300.00	277.20
	White cement for grouting				
0368	White Cement	tonne	0.044	14000.00	616.00
2209	Carriage of cement	tonne	0.088	94.65	8.33
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.080	75.00	231.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0101	Bhisti	day	1.000	363.00	363.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.980	1.78	288.32
	TOTAL				8034.76
	Add Water Charges @ 1%				80.35
	TOTAL				8115.11
	Add CPOH @ 15%				1217.27
	Cost of 10 sqm				9332.38
	Cost of 1 sqm				933.24
	Say				933.25

11.19.2 Medium shade pigment using 50% white cement, 50% ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1228	Chequered terrazzo tiles 22 mm thick(medium shade) including 10% wastage	sqm	11.000	300.00	3300.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4(1 Cemet: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Grey cement				
	(i) for slurry @ 4.4kg/sqm =44 kg.+				
	(ii) 50% for grouting = 22kg.				
	Total =66kg or 0.066 tonne				
0367	Portland Cement	tonne	0.066	6300.00	415.80
	50% white cement for grouting				
0368	White Cement	tonne	0.022	14000.00	308.00
2209	Carriage of cement	tonne	0.088	94.65	8.33
0876	Green or blue medium shade pigment	kilogram	3.080	70.00	215.60
	Labour & sundries:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0101	Bhisti	day	1.000	363.00	363.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.980	1.78	288.32
	TOTAL				8124.96
	Add Water Charges @ 1%				81.25
	TOTAL				8206.21
	Add CPOH @ 15%				1230.93
	Cost of 10 sqm				9437.14
	Cost of 1 sqm				943.71
	Say				943.70

11.19.3 Dark shade pigment using ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1229	Chequered terrazzo tiles 22 mm thick (dark shade) including 10% wastage	sqm	11.000	260.00	2860.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4(1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg.Total = 88kg or 0.088 tonne				
0367	Portland Cement	tonne	0.088	6300.00	554.40
2209	Carriage of cement	tonne	0.088	94.65	8.33
0874	Black colour dark shade pigment	kilogram	3.080	55.00	169.40
	Labour & sundries:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0101	Bhisti	day	1.000	363.00	363.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	161.980	1.78	288.32
	TOTAL				7469.36
	Add Water Charges @ 1%				74.69
	TOTAL				7544.05
	Add CPOH @ 15%				1131.61
	Cost of 10 sqm				8675.66
	Cost of 1 sqm				867.57
	Say				867.55

11.19.4 Ordinary cement without any pigment

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	11.000	260.00	2860.00
	including 10% wastage				
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4 (1 Cemet: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Ordinary cement for				
	(i) Cement slurry @ 4.4kg/sqm =44kg+				
	(ii) Grouting = 44 kg.				
	Total = 88kg or 0.088 tonne				
0367	Portland Cement	tonne	0.088	6300.00	554.40
2209	Carriage of cement	tonne	0.088	94.65	8.33
0874	Black colour dark shade pigment	kilogram	3.080	55.00	169.40
	Labour & sundries:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0101	Bhisti	day	1.000	363.00	363.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	162.590	1.78	289.41
	Less for dark shade pigment [3.08+2.84(for tiles)]				
0874	Black colour dark shade pigment	kilogram	-5.920	55.00	-325.60
	TOTAL				7144.85
	Add Water Charges @ 1%				71.45
	TOTAL				7216.30
	Add CPOH @ 15%				1082.44
	Cost of 10 sqm				8298.74
	Cost of 1 sqm				829.87
	Say				829.85

11.20 Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).

11.20.1 Light shade pigment using white cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7070	Chequerred precast cement concrete tiles 22 mm thick using marble chips of size 6mm - Light shade using white cement	sqm	11.000	360.00	3960.00
	including 10% wastage				
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4(1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.220	4172.05	917.85
	Grey cement slurry @ 4.4kg @sqm				
0367	Portland Cement	tonne	0.044	6300.00	277.20
	White cement for grouting				
0368	White Cement	tonne	0.048	14000.00	672.00
2209	Carriage of cement	tonne	0.092	94.65	8.71
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.080	75.00	231.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0101	Bhisti	day	1.000	363.00	363.00
	TOTAL				7798.13
	Add Water Charges @ 1%				77.98
	TOTAL				7876.11
	Add CPOH @ 15%				1181.42
	Cost of 10 sqm				9057.53
	Cost of 1 sqm				905.75
	Say				905.75

11.20.2 Medium shade pigment using 50% white cement 50% Grey cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7237	Precast chequerred cement tiles 22 mm thick medium shade using 50% white cement				
	50% ordinary cement	sqm	11.000	540.00	5940.00
	including 10% wastage				
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4(1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.220	4172.05	917.85
	Grey cement for slurry @ 4.4kg/sqm. = 44 kg.+ grey cement for grouting 2.4kg/sqm. = 24 kg.				
	Total = 68 kg				
0367	Portland Cement	tonne	0.068	6300.00	428.40
	White cement for grouting @ 2.4kg/sqm. = 24 kg				
0368	White Cement	tonne	0.024	14000.00	336.00
2209	Carriage of cement	tonne	0.092	94.65	8.71
0876	Green or blue medium shade pigment	kilogram	3.080	70.00	215.60
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	2.000	329.00	658.00
0101	Bhisti	day	1.000	363.00	363.00
	TOTAL				9577.93
	Add Water Charges @ 1%				95.78
	TOTAL				9673.71
	Add CPOH @ 15%				1451.06
	Cost of 10 sqm				11124.77
	Cost of 1 sqm				1112.48
	Say				1112.50

11.20.3 Dark shade pigment using ordinary cement

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement including 10% wastage	sqm	11.000	235.00	2585.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
3.9	Cement mortar 1:4(1 Cement: 4Coarse sand)				
	Rate as per Item Number 3.9 of SH: Mortars	cum	0.220	4172.05	917.85
	Grey cement for slurry @ 4.4kg/sqm. = 44 kg.+ For grouting = 48 kg.				
	Total=92 kg. say 0.092 tonne				
0367	Portland Cement	tonne	0.092	6300.00	579.60
2209	Carriage of cement	tonne	0.092	94.65	8.71
0874	Black colour dark shade pigment	kilogram	3.080	55.00	169.40
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0101	Bhisti	day	1.000	363.00	363.00
	TOTAL				5991.93
	Add Water Charges @ 1%				59.92
	TOTAL				6051.85
	Add CPOH @ 15%				907.78
	Cost of 10 sqm				6959.63
	Cost of 1 sqm				695.96
	Say				695.95

11.20.4 Ordinary cement without any pigment

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement including 10% wastage	sqm	11.000	235.00	2585.00
9999	Carriage of tiles	L.S.	40.430	1.78	71.97
	Cement mortar 1:4 (1 Cement 4 Coarse sand)				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
3.9	Rate as per Item Number 3.9 of SH: Mortars Grey cement for slurry @ 4.4kg/sqm. = 44 kg For grouting = 48 kg. Total = 92 kg. Say 0.092 tonne	cum	0.220	4172.05	917.85
0367	Portland Cement	tonne	0.092	6300.00	579.60
2209	Carriage of cement	tonne	0.092	94.65	8.71
0874	Black colour dark shade pigment LABOUR:	kilogram	3.080	55.00	169.40
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0101	Bhisti	day	1.000	363.00	363.00
	Less for dark shade pigment [3.08+2.84(for tiles)]				
0874	Black colour dark shade pigment	kilogram	-5.920	55.00	-325.60
	TOTAL				5666.33
	Add Water Charges @ 1%				56.66
	TOTAL				5722.99
	Add CPOH @ 15%				858.45
	Cost of 10 sqm				6581.44
	Cost of 1 sqm				658.14
	Say				658.15

11.21 Providing and fixing 10 mm thick acid and / or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and / or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.

11.21.1 In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)

11.21.1.1 Acid and alkali resistant tile

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Acid proof tiles of size 300x300mm, 10mm thick =11.11 Nos+				
	Add wastage and breakage @ 2.5% = 0.28 Nos.				
	Total = 11.39 Nos. Say 12 Nos				
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	12.000	575.00	690.00
9999	Carriage	L.S.	6.240	1.78	11.11
	10mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.012	4172.05	50.06
9999	Mortar for pointing in acid/ alkali resistant cement	L.S.	40.430	1.78	71.97
	Cement for slurry over bed @ 3.3kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	Difference of cost for using acid proof cement instead of ordinary cement				
7024	Acid Proof cement	tonne	0.008	8150.00	64.39
	Deduct				
0367	Portland Cement	tonne	-0.008	6300.00	-49.77

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.200	329.00	65.80
9999	Sundries including carriage of cement etc.	L.S.	26.910	1.78	47.90
	TOTAL				1059.25
	Add Water Charges @ 1%				10.59
	TOTAL				1069.84
	Add CPOH @ 15%				160.48
	Cost of 1 sqm				1230.32
	Say				1230.30

11.21.2 In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)

11.21.2.1 Acid and alkali resistant tile

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Acid proof tiles of size 300x300mm, 10mm thick = 11.11 Nos.+				
	Add wastage and breakage @ 2.5%=0.28 Nos.				
	Total = 11.39 Nos. Say 12 Nos				
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	12.000	575.00	690.00
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	12mm .thick.Cement mortar, 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.014	4172.05	58.41
	Difference of cost for using acid proof cement instead of ordinary cement				
7024	Acid Proof cement	tonne	0.009	8150.00	70.09
	Deduct for				
0367	Portland Cement	tonne	-0.009	6300.00	-54.18
9999	Mortar for pointing in acid proof cement	L.S.	40.430	1.78	71.97
	Acid proof cementfor slurry over plaster3.3kg/sqm				
7024	Acid Proof cement	tonne	0.003	8150.00	26.90
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.250	329.00	82.25
9999	Sundries including carriage of cement etc.	L.S.	26.910	1.78	47.90
	TOTAL				1113.20
	Add Water Charges @ 1%				11.13
	TOTAL				1124.33
	Add CPOH @ 15%				168.65
	Cost of 1 sqm				1292.98
	Say				1293.00

11.22 Tile work in skirting, risers of steps and dado upto 2 m height, over 12 mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm, including pointing in white cement mixed with pigment of matching shade complete.

11.22.1 Marble tiles (polished) Raj Nagar

11.22.1.1 8 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
2751	8 mm thick marble tiles (polished) Raj Nagar including wastage	sqm	1.061	400.00	424.40

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of tiles	L.S.	3.900	1.78	6.94
	12mm thick cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	5003.35	70.05
9999	Mortar for pointing in white cement	L.S.	25.350	1.78	45.12
	Cement for slurry @ 3.3kg/sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
9999	Pigment	L.S.	2.080	1.78	3.70
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.250	329.00	82.25
9999	Sundries including carriage of cement etc.	L.S.	16.900	1.78	30.08
	TOTAL				792.08
	Add Water Charges @ 1%				7.92
	TOTAL				800.00
	Add CPOH @ 15%				120.00
	Cost of 1 sqm				920.00
	Say				920.00
11.23	Marble stone flooring with 18 mm thick marble stone as per sample of marble approved by Engineer-in-Charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with :				
11.23.1	Makrana white second quality				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.Total = 11.50sqm				
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	11.500	2000.00	23000.00
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Cement for slurry @4.4kg/sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.050	6300.00	315.00
9999	Carriage of marble slab	L.S.	26.910	1.78	47.90
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1 st class	day	1.200	435.00	522.00
0114	Beldar	day	1.000	329.00	329.00
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00
0013	Machine for rubbing of floors	day	4.000	350.00	1400.00
9999	Sundries including carriage of cement etc.	L.S.	134.550	1.78	239.50
	TOTAL				28931.94
	Add Water Charges @ 1%				289.32
	TOTAL				29221.26
	Add CPOH @ 15%				4383.19
	Cost of 10 sqm				33604.45
	Cost of 1 sqm				3360.45
	Say				3360.45

11.23.2 Raj Nagar plain

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	11.500	800.00	9200.00
	Base mortar 1:4 (1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.050	6300.00	315.00
9999	Carriage of marbles slab	L.S.	26.910	1.78	47.90
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1 st class	day	1.200	435.00	522.00
0114	Beldar	day	1.000	329.00	329.00
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00
0013	Machine for rubbing of floors	day	4.000	350.00	1400.00
9999	Sundries and carriage of cement etc.	L.S.	134.550	1.78	239.50
	TOTAL				15131.94
	Add Water Charges @ 1%				151.32
	TOTAL				15283.26
	Add CPOH @ 15%				2292.49
	Cost of 10 sqm				17575.75
	Cost of 1 sqm				1757.58
	Say				1757.60

11.23.3 Agaria White

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
7850	Agaria White marble slab plain 18 mm thick	sqm	11.500	1100.00	12650.00
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.050	6300.00	315.00
9999	Carriage of marbles slab	L.S.	26.910	1.78	47.90
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1 st class	day	1.200	435.00	522.00
0114	Beldar	day	1.000	329.00	329.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00
0013	Machine for rubbing of floors	day	4.000	350.00	1400.00
9999	Sundries and carriage of cement etc.	L.S.	134.550	1.78	239.50
	TOTAL				18581.94
	Add Water Charges @ 1%				185.82
	TOTAL				18767.76
	Add CPOH @ 15%				2815.16
	Cost of 10 sqm				21582.92
	Cost of 1 sqm				2158.29
	Say				2158.30

11.23.4 Black Zebra

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
6019	Black Zebra marble slab plain 18 mm thick	sqm	11.500	500.00	5750.00
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.050	6300.00	315.00
9999	Carriage of marbles slab	L.S.	26.910	1.78	47.90
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1 st class	day	1.200	435.00	522.00
0114	Beldar	day	1.000	329.00	329.00
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00
0013	Machine for rubbing of floors	day	4.000	350.00	1400.00
9999	Sundries and carriage of cement etc.	L.S.	134.550	1.78	239.50
	TOTAL				11681.94
	Add Water Charges @ 1%				116.82
	TOTAL				11798.76
	Add CPOH @ 15%				1769.81
	Cost of 10 sqm				13568.57
	Cost of 1 sqm				1356.86
	Say				1356.85

11.23.5 Udaipur green marble

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
6010	Udaypur green marble slab plain 18 mm thick	sqm	11.500	800.00	9200.00
3.9	Base mortar 1:4 (1 Cement: 4 coarse sand)				
	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg +				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.050	6300.00	315.00
9999	Carriage of marbles slab	L.S.	26.910	1.78	47.90
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1 st class	day	1.200	435.00	522.00
0114	Beldar	day	1.000	329.00	329.00
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00
0013	Machine for rubbing of floors	day	4.000	350.00	1400.00
9999	Sundries and carriage of cement etc.	L.S.	134.550	1.78	239.50
	TOTAL				15131.94
	Add Water Charges @ 1%				151.32
	TOTAL				15283.26
	Add CPOH @ 15%				2292.49
	Cost of 10 sqm				17575.75
	Cost of 1 sqm				1757.58
	Say				1757.60

11.23.6 Pink plain marble

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
6007	Pink marble slab plain 18 mm thick	sqm	11.500	800.00	9200.00
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg +				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.050	6300.00	315.00
9999	Carriage of marbles slab	L.S.	26.910	1.78	47.90
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1 st class	day	1.200	435.00	522.00
0114	Beldar	day	1.000	329.00	329.00
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00
0013	Machine for rubbing of floors	day	4.000	350.00	1400.00
9999	Sundries and carriage of cement etc.	L.S.	134.550	1.78	239.50
	TOTAL				15131.94
	Add Water Charges @ 1%				151.32
	TOTAL				15283.26
	Add CPOH @ 15%				2292.49
	Cost of 10 sqm				17575.75
	Cost of 1 sqm				1757.58
	Say				1757.60

11.24 Extra for pre finished nosing to treads of steps of marble stone.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10m</i>				
	LABOUR:				
0126	Mason (for ornamental stone work) 1 st class	day	2.000	435.00	870.00
0114	Beldar	day	1.500	329.00	493.50
0139	Skilled Beldar (for floor rubbing etc.)	day	2.500	363.00	907.50
9999	Sundries	L.S.	53.820	1.78	95.80
	TOTAL				2366.80
	Add Water Charges @ 1%				23.67
	TOTAL				2390.47
	Add CPOH @ 15%				358.57
	Cost of 10 metre				2749.04
	Cost of 1 metre				274.90
	Say				274.90

11.25 Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.950	435.00	848.25
0114	Beldar	day	1.400	329.00	460.60
0115	Coolie	day	0.750	329.00	246.75
0139	Skilled Beldar (for floor rubbing etc.)	day	3.180	363.00	1154.34
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				2757.84
	Add Water Charges @ 1%				27.58
	TOTAL				2785.42
	Add CPOH @ 15%				417.81
	Cost of 10 sqm				3203.23
	Cost of 1 sqm				320.32
	Say				320.30

11.26 Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1: 4 (1 cement : 4 coarse sand) :**11.26.1 25 mm thick**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished) including 15% wastage	sqm	11.500	300.00	3450.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.670	94.65	63.42
3.9	Cement mortar 1:4(Rate as per item No. 3.9)				
	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Cement for slurry-(i) for bedding = 44kg+ (ii) for joints = 20 kg. Total = 64 kg. or 0.064 tonne				
0367	Portland Cement	tonne	0.064	6300.00	403.20
2209	Carriage of cement	tonne	0.064	94.65	6.06
0874	Black colour dark shade pigment	kilogram	4.500	55.00	247.50
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.200	399.00	478.80
0114	Beldar	day	1.000	329.00	329.00
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0013	Machine for rubbing of floors	day	4.000	350.00	1400.00
9999	Sundries	L.S.	208.130	1.78	370.47
	TOTAL				9826.99
	Add Water Charges @ 1%				98.27
	TOTAL				9925.26
	Add CPOH @ 15%				1488.79
	Cost of 10 sqm				11414.05
	Cost of 1 sqm				1141.41
	Say				1141.40

11.27 Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished) including 15% wastage	sqm	11.500	300.00	3450.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.670	94.65	63.42
3.8	Cement mortar 1:3 (1 Cement: 3 Coarse sand)	cum	0.144	5003.35	720.48
0367	Rate as per Item Number 3.8 of SH: Mortars				
	Portland Cement	tonne	0.064	6300.00	403.20
	for slurry				
2209	Carriage of cement	tonne	0.064	94.65	6.06
0874	Black colour dark shade pigment	kilogram	4.500	55.00	247.50
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.000	399.00	1197.00
0114	Beldar	day	3.000	329.00	987.00
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	7.000	363.00	2541.00
9999	Sundries	L.S.	174.980	1.78	311.46
	TOTAL				10256.12
	Add Water Charges @ 1%				102.56
	TOTAL				10358.68
	Add CPOH @ 15%				1553.80
	Cost of 10 sqm				11912.48
	Cost of 1 sqm				1191.25
	Say				1191.25

11.28 40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush.

11.28.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	11.000	180.00	1980.00
9999	Carriage	L.S.	34.060	1.78	60.63
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.250	3724.40	931.10
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	3.100	435.00	1348.50
0100	Bandhani	day	1.100	363.00	399.30
0115	Coolie	day	0.550	329.00	180.95
0101	Bhisti	day	0.270	363.00	98.01
9999	Sundries	L.S.	10.790	1.78	19.21
	TOTAL				5017.70
	Add Water Charges @ 1%				50.18
	TOTAL				5067.88
	Add CPOH @ 15%				760.18
	Cost of 10 sqm				5828.06
	Cost of 1 sqm				582.81
	Say				582.80

11.28.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqmAdd wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.000	200.00	2200.00
9999	Carriage	L.S.	34.060	1.78	60.63
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum (ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.250	3724.40	931.10
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	3.100	435.00	1348.50
0100	Bandhani	day	1.100	363.00	399.30
0115	Coolie	day	0.550	329.00	180.95
0101	Bhisti	day	0.270	363.00	98.01
9999	Sundries	L.S.	10.790	1.78	19.21
	TOTAL				5237.70
	Add Water Charges @ 1%				52.38
	TOTAL				5290.08
	Add CPOH @ 15%				793.51
	Cost of 10 sqm				6083.59
	Cost of 1 sqm				608.36
	Say				608.35

11.29 40 mm thick fine dressed stone flooring over 20 mm (average)thick base of cement mortar 1:5 (1 cement : 5 coarse sand), including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone.

11.29.1 Red sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqmAdd wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	11.000	180.00	1980.00
9999	Carriage	L.S.	34.060	1.78	60.63
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
3.10	Rate as per Item Number 3.10 of SH: Mortars Cement mortar 1:2(1 Cement: 2 stone dust) for pointing	cum	0.250	3724.40	931.10
3.12	Rate as per Item Number 3.12 of SH: Mortars LABOUR:	cum	0.023	5838.65	134.29
0123	Mason (brick layer) 1 st class	day	3.900	435.00	1696.50
0100	Bandhani	day	1.100	363.00	399.30
0115	Coolie	day	1.400	329.00	460.60
0101	Bhisti	day	0.550	363.00	199.65
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				5909.97
	Add Water Charges @ 1%				59.10
	TOTAL				5969.07
	Add CPOH @ 15%				895.36
	Cost of 10 sqm				6864.43
	Cost of 1 sqm				686.44
	Say				686.45

11.29.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.000	200.00	2200.00
9999	Carriage	L.S.	34.060	1.78	60.63
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars Cement mortar 1:2(1 Cement: 2 stone dust)for pointing	cum	0.250	3724.40	931.10
3.12	Rate as per Item Number 3.12 of SH: Mortars LABOUR:	cum	0.023	5838.65	134.29
0123	Mason (brick layer) 1 st class	day	3.900	435.00	1696.50
0100	Bandhani	day	1.100	363.00	399.30
0115	Coolie	day	1.400	329.00	460.60
0101	Bhisti	day	0.550	363.00	199.65
9999	Sundries	L.S.	26.910	1.78	47.90
	TOTAL				6129.97
	Add Water Charges @ 1%				61.30
	TOTAL				6191.27
	Add CPOH @ 15%				928.69
	Cost of 10 sqm				7119.96
	Cost of 1 sqm				712.00
	Say				712.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
11.30	40 mm thick rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints 3 mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar.				
11.30.1	Red sand stone				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	11.000	180.00	1980.00
9999	Carriage	L.S.	34.060	1.78	60.63
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.250	3724.40	931.10
	Cement mortar 1:2(1 Cement: 2 stone dust)for pointing				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	5838.65	134.29
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	3.900	435.00	1696.50
0100	Bandhani	day	1.100	363.00	399.30
0115	Coolie	day	1.400	329.00	460.60
0101	Bhisti	day	0.550	363.00	199.65
9999	Sundries	L.S.	26.910	1.78	47.90
	Labour for rubbing of stone				
0139	Skilled Beldar (for floor rubbing etc.)	day	0.618	363.00	224.33
0013	Machine for rubbing of floors	day	0.988	350.00	345.80
	TOTAL				6480.10
	Add Water Charges @ 1%				64.80
	TOTAL				6544.90
	Add CPOH @ 15%				981.73
	Cost of 10 sqm				7526.63
	Cost of 1 sqm				752.66
	Say				752.65

11.30.2 White sand stone

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqmAdd wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.000	200.00	2200.00
9999	Carriage	L.S.	34.060	1.78	60.63
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.250	3724.40	931.10
	Cement mortar 1:2(1 Cement: 2 stone dust)for pointing				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	5838.65	134.29
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	3.900	435.00	1696.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0100	Bandhani	day	1.100	363.00	399.30
0115	Coolie	day	1.400	329.00	460.60
0101	Bhisti	day	0.550	363.00	199.65
9999	Sundries	L.S.	26.910	1.78	47.90
	Labour for rubbing of stone				
0139	Skilled Beldar (for floor rubbing etc.)	day	0.618	363.00	224.33
0013	Machine for rubbing of floors	day	0.988	350.00	345.80
	TOTAL				6700.10
	Add Water Charges @ 1%				67.00
	TOTAL				6767.10
	Add CPOH @ 15%				1015.06
	Cost of 10 sqm				7782.16
	Cost of 1 sqm				778.22
	Say				778.20

11.31 Extra for pre finished nosing in treads of steps of Kota stone / sand stone slab.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm				
	LABOUR:				
0126	Mason (for ornamental stone work) 1 st class	day	1.500	435.00	652.50
	TOTAL				652.50
	Add Water Charges @ 1%				6.52
	TOTAL				659.02
	Add CPOH @ 15%				98.85
	Cost of 10 metre				757.87
	Cost of 1 metre				75.79
	Say				75.80

11.32 Extra for Kota stone / sand stone in treads of steps and risers using single length up to 1.05 metre.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.200	399.00	79.80
0114	Beldar	day	0.200	329.00	65.80
	TOTAL				145.60
	Add Water Charges @ 1%				1.46
	TOTAL				147.06
	Add CPOH @ 15%				22.06
	Cost of 10 sqm				169.12
	Cost of 1 sqm				16.91
	Say				16.90

11.33 25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with:

11.33.1 Second class teak wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2.5x4=10 sqm				
	MATERIAL:				
	Second class indian teak woodNo of joints = 4000/138				
	= 28.97 = (29-1) = 28NosQty of wood required				
	2.5 (4+0.336)x0.025 = 0.271 cumAdd wastage @ 10 %				
	= 0.027 cum= 0.2981 cum = 298.1 cudm				
1190	Second class teak wood in planks	10 cudm	298.100	750.00	22357.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1231	Extra for selected planks of second class teakwood	10 cudm	298.100	150.00	4471.50
2204	Carriage of timber	cum	0.298	121.70	36.28
0682	Oxidised mild steel screws 50 mm (slotted counters sunk head type)	100 Nos	200.000	80.00	160.00
	LABOUR:				
0111	Carpenter 1 st class	day	2.680	435.00	1165.80
0114	Beldar	day	1.350	329.00	444.15
9999	Sundries for glue etc.	L.S.	33.280	1.78	59.24
	TOTAL				28694.47
	Add Water Charges @ 1%				286.94
	TOTAL				28981.41
	Add CPOH @ 15%				4347.21
	Cost of 10 sqm				33328.62
	Cost of 1 sqm				3332.86
	Say				3332.85

11.33.2 Second class deodar wood

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.5 x 4 = 10 sqm</i>				
	MATERIAL:				
	First class deodar wood planks				
	No of joints = $4000/138 = 28.97$				
	= (29-1) = 28Nos				
	Qty of wood required				
	$2.5 (4+0.336) \times 0.025 = 0.271 \text{ cum}$				
	Add wastage @ 10 % =				
	$0.027 \text{ cum Total} = 0.2981 \text{ cum} = 298.10 \text{ cudm}$				
1194	Second class deodar wood in planks	10 cudm	298.100	500.00	14905.00
2500	Extra for selected planks of second class deodar wood	10 cudm	298.100	110.00	3279.10
2204	Carriage of timber	cum	0.298	121.70	36.28
0682	Oxidised mild steel screws 50 mm (slotted counters sunk head type)	100 Nos	200.000	80.00	160.00
	LABOUR:				
0111	Carpenter 1 st class	day	2.160	435.00	939.60
0114	Beldar	day	1.080	329.00	355.32
9999	Sundries for glue etc.	L.S.	26.910	1.78	47.90
	TOTAL				19723.20
	Add Water Charges @ 1%				197.23
	TOTAL				19920.43
	Add CPOH @ 15%				2988.06
	Cost of 10 sqm				22908.49
	Cost of 1 sqm				2290.85
	Say				2290.85

- 11.34 38 mm thick wood block flooring of first class teak wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10mm nominal size) to be paid separately, coated with a thin layer of hot bitumen (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL :				
	Bitumen blown type				
	i) For bed layer @ 2.45kg/sqm. = 2.45kg+				
	ii) For dipping blocks L.S. = 2.00kg.				
	Total = 4.45kg				
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	0.004	49600.00	218.24
2211	Carriage of tar / bitumen	tonne	0.0044	106.94	0.47
	1st class teak wood in scantling for wooden blocks				
	1 sqm x 0.038 m = 0.038 cum				
	Add 10 % wastage = 0.0038 cum				
	Total = 0.0418 cum or 41.80 cudm				
1187	First class teak wood in scantling	10 cudm	41.800	880.00	3678.40
2204	Carriage of timber	cum	0.042	121.70	5.09
	LABOUR:				
0111	Carpenter 1 st class	day	1.750	435.00	761.25
0114	Beldar	day	2.250	329.00	740.25
0115	Coolie	day	1.500	329.00	493.50
0130	Mistry	day	0.100	435.00	43.50
9999	Sundries such as fuel, kerosene oil, sand paper	L.S.	80.730	1.78	143.70
	TOTAL				6084.35
	Add Water Charges @ 1%				60.84
	TOTAL				6145.24
	Add CPOH @ 15%				921.79
	Cost of 1 sqm				7066.03
	Say				7067.05

- 11.35 Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm, 10 cm long, forked at end 60 cm apart (minimum three lugs to be provided), including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3m (11.4+0.24kg=11.64kg)</i>				
	MATERIAL:				
	Angle iron 50x50x5 mm +3m				
	Add wastage @ 5% +0.15m				
	Total = 3.15m@ 3.80 kg per m +11.97 kg				
	Say 0.120 qtl				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.120	4636.00	556.32
	Lugs 10x5 mm flat = 6x0.10 = 0.60.@0.40 kg per m = 0.24 kg				
	Add wastage @ 5% = 0.012 kg				
	Total 0.252 kg				
	or 0.0025 qtl				
1008	Flats up to 10 mm in thickness	quintal	0.003	4200.00	10.50
2205	Carriage of steel	tonne	0.012	94.65	1.15
1215	Welding by electric plant	cm	6.000	2.00	12.00
	6cm (lugs)				
9999	Sundries	L.S.	9.100	1.78	16.20

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0103	Blacksmith 2nd class	day	0.090	399.00	35.91
0123	Mason (brick layer) 1 st class	day	0.450	435.00	195.75
0114	Beldar	day	0.250	329.00	82.25
	Priming coat 3x0.20=0.60sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.600	27.00	16.20 A
	TOTAL				926.28
	Add Water Charges @ 1% except on A i.e on (926.28 - 16.20 =) 910.08				9.10
	TOTAL				935.38
	Add CPOH @ 15% except on A i.e on (935.38 - 16.20 =) 919.18				137.88
	Cost of 11.64 kilogram				1073.26
	Cost of 1 kilogram				92.20
	Say				92.20

11.36 Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Ceramic Glazed tiles = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
7800	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	sqm	1.025	300.00	307.50
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	12 mm thick cement mortar 1:3 (1 cement: 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	5003.35	70.05
9999	Mortar for pointing in white cement	L.S.	40.430	1.78	71.97
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.250	329.00	82.25
9999	Sundries including carriage of cement etc.	L.S.	26.910	1.78	47.90
	TOTAL				720.32
	Add Water Charges @ 1%				7.20
	TOTAL				727.52
	Add CPOH @ 15%				109.13
	Cost of 1 sqm				836.65
	Say				836.65

11.37 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Glazed Ceramic floor tiles 300x300 mm size				
	= 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
7801	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	1.025	300.00	307.50
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	4172.05	100.13
9999	Mortar for pointing in white cement	L.S.	20.200	1.78	35.96
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.200	329.00	65.80
9999	Sundries including carriage of cement etc.	L.S.	26.910	1.78	47.90
	TOTAL				676.19
	Add Water Charges @ 1%				6.76
	TOTAL				682.95
	Add CPOH @ 15%				102.44
	Cost of 1 sqm				785.39
	Say				785.40

11.38 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Glazed Ceramic floor tiles 300x300 mm size				
	= 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
7802	Ceramic Glazed Tiles 1st quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	1.025	400.00	410.00
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	4172.05	100.13
9999	Mortar for pointing in white cement	L.S.	20.200	1.78	35.96
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.200	329.00	65.80
9999	Sundries including carriage of cement etc.	L.S.	26.910	1.78	47.90
	TOTAL				778.69
	Add Water Charges @ 1%				7.79
	TOTAL				786.48
	Add CPOH @ 15%				117.97
	Cost of 1 sqm				904.45
	Say				904.45

11.39 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Rectified glazed Ceramic floor tiles 300x300mm or more = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
7803	Rectified Ceramic Glazed Tiles 1st quality 300x300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	sqm	1.025	450.00	461.25
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	4172.05	100.13
9999	Mortar for pointing in white cement	L.S.	13.470	1.78	23.98
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.200	329.00	65.80
9999	Sundries including carriage of cement etc.	L.S.	26.910	1.78	47.90
	TOTAL				817.96
	Add Water Charges @ 1%				8.18
	TOTAL				826.14
	Add CPOH @ 15%				123.92
	Cost of 1 sqm				950.06
	Say				950.05

11.40 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Rectified Glazed Ceramic floor tiles 200x300 mm or more = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7804	Rectified Ceramic Glazed Tiles 1st quality 300x300 mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	1.025	500.00	512.50
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
3.9	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)	cum	0.024	4172.05	100.13
9999	Rate as per Item Number 3.9 of SH: Mortars	L.S.	13.470	1.78	23.98
0367	Mortar for pointing in white cement	tonne	0.003	6300.00	20.79
0123	Cement for slurry over bed @ 3.3 kg per sqm	day	0.200	435.00	87.00
0115	Portland Cement	day	0.200	329.00	65.80
9999	LABOUR: Mason (brick layer) 1 st class	L.S.	26.910	1.78	47.90
	Coolie				
	Sundries including carriage of cement etc.				
	TOTAL				869.21
	Add Water Charges @ 1%				8.69
	TOTAL				877.90
	Add CPOH @ 15%				131.68
	Cost of 1 sqm				1009.58
	Say				1009.60

11.41 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.

11.41.1 Size of Tile 500x500 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 50x50 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	770.00	789.25
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
3.9	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)	cum	0.024	4172.05	100.13
9999	Rate as per Item Number 3.9 of SH: Mortars	L.S.	3.640	1.78	6.48
0367	Mortar for pointing in white cement	tonne	0.003	6300.00	20.79
0123	Cement for slurry over bed @ 3.3 kg per sqm	day	0.200	435.00	87.00
0115	Portland Cement	day	0.200	329.00	65.80
9999	LABOUR: Mason (brick layer) 1 st class	L.S.	26.910	1.78	47.90
	Coolie				
	Sundries including carriage of cement etc.				
	TOTAL				1128.46
	Add Water Charges @ 1%				11.28
	TOTAL				1139.74
	Add CPOH @ 15%				170.96
	Cost of 1 sqm				1310.70
	Say				1310.70

11.41 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.

11.41.2 Size of Tile 600x600 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 60x60 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	850.00	871.25
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	4172.05	100.13
9999	Mortar for pointing in white cement	L.S.	3.640	1.78	6.48
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.200	329.00	65.80
9999	Sundries including carriage of cement etc.	L.S.	26.910	1.78	47.90
	TOTAL				1210.46
	Add Water Charges @ 1%				12.10
	TOTAL				1222.56
	Add CPOH @ 15%				183.38
	Cost of 1 sqm				1405.94
	Say				1405.95

11.41 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.

11.41.3 Size of Tile 800x800 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 80x80 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	950.00	973.75
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	4172.05	100.13
9999	Mortar for pointing in white cement	L.S.	2.600	1.78	4.63
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.200	329.00	65.80
9999	Sundries including carriage of cement etc.	L.S.	26.910	1.78	47.90

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1311.11
	Add Water Charges @ 1%				13.11
	TOTAL				1324.22
	Add CPOH @ 15%				198.63
	Cost of 1 sqm				1522.85
	Say				1522.85

11.41 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.

11.41.4 Size of Tile 1000x1000 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 100x100 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1600.00	1640.00
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	4172.05	100.13
9999	Mortar for pointing in white cement	L.S.	2.600	1.78	4.63
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.200	329.00	65.80
9999	Sundries including carriage of cement etc.	L.S.	26.910	1.78	47.90
	TOTAL				1977.36
	Add Water Charges @ 1%				19.77
	TOTAL				1997.13
	Add CPOH @ 15%				299.57
	Cost of 1 sqm				2296.70
	Say				2296.70

11.42 Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	4172.05	100.13
9999	Mortar for pointing in white cement	L.S.	40.430	1.78	71.97
	Cement for slurry over bed @ 3.3 kg per sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.200	329.00	65.80
9999	Sundries i/c carriage of cement etc.	L.S.	26.910	1.78	47.90
	TOTAL				393.59
	Add Water Charges @ 1%				3.94
	TOTAL				397.53
	Add CPOH @ 15%				59.63
	Cost of 1 sqm				457.16
	Say				457.15
11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
8731	High polymer modified quickset tile adhesive	per kg	5.000	20.00	100.00
9999	Mortar for pointing in white cement	L.S.	40.430	1.78	71.97
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.200	329.00	65.80
9999	Sundries i/c carriage of cement etc.	L.S.	26.910	1.78	47.90
	TOTAL				372.67
	Add Water Charges @ 1%				3.73
	TOTAL				376.40
	Add CPOH @ 15%				56.46
	Cost of 1 sqm				432.86
	Say				432.85
11.44	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement , all complete as per direction of Engineer-in-charge.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Under layer 12 mm thick cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.140	4172.05	584.09
0124	Mason (brick layer) 2nd class	day	0.670	399.00	267.33
0114	Beldar	day	0.750	329.00	246.75
0101	Bhisti	day	0.920	363.00	333.96
9999	Scaffolding	L.S.	8.970	1.78	15.97
	Cement slurry for subgrade				
0367	Portland Cement	tonne	0.040	6300.00	252.00
2209	Carriage of cement	tonne	0.040	94.65	3.79
	Labour for applying cement slurry				
0114	Beldar	day	0.500	329.00	164.50
	Top layer with tile piece and gap filling with cement mortar: Ceramic tile piece for crazy flooring assuming 70% tile area and 30% of joint filler/mixture. (7.00x0.010)=0.07 0.872x0.07/0.051=1.20 qtl				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	1.200	250.00	300.00
9999	Carriage of tiles	L.S.	62.400	1.78	111.07
	Cement motar 1:4 for filling of crazy tile : (300x0.01=0.03)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.030	4172.05	125.16
4.18	Synthetic polyster triangular				
4.18	Rate as per Item No. 4.18 of SH: Cement Concrete	per bag of 50kg			
	Water proofing compound	of cement	1.380	53.00	73.14 A
4.12	Rate as per Item No. 4.12 of SH: Cement Concrete	per bag bag of 50kg of cement	1.380	48.15	66.45 A
0123	Mason (brick layer) 1 st class	day	1.200	435.00	522.00
0114	Beldar	day	1.000	329.00	329.00
0115	Coolie	day	1.000	329.00	329.00
0101	Bhisti	day	0.540	363.00	196.02
9999	Sundries	L.S.	67.250	1.78	119.70
	TOTAL				4039.93
	Add Water Charges @ 1% except on A i.e on (4,039.93 - 139.59 =) 3,900.34				39.00
	TOTAL				4078.93
	Add CPOH @ 15% except on A i.e on (4,078.93 - 139.59 =) 3,939.34				590.90
	Cost of 10 sqm				4669.83
	Cost of 1 sqm				466.98
	Say				467.00

11.45 Providing and laying 500x500x40 mm thick Turf paver (Turf pave XD) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate and base course and filling with 150 mm thick jamuna sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	1.500	1175.00	1762.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	1.500	106.49	159.73
	1 x 10 x 0.15 = 1.5cum				
	LABOUR:for spreading ramming and consolidation of sub grade				
0114	Beldar	day	0.700	329.00	230.30
0115	Coolie	day	0.520	329.00	171.08
0101	Bhisti	day	0.360	363.00	130.68
	Providing and filling Jamuna sand				
2.27	Rate as per Item No. 2.27 of SH: Earth Work	cum	1.500	910.25	1365.38 A
2708	Truf Paver (500 x 500 x 40 mm)	sqm	10.000	1150.00	11500.00
	Labour for laying of Turf pave				
0123	Mason (brick layer) 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	1.000	329.00	329.00
9999	Sundries	L.S.	50.000	1.78	89.00
	TOTAL				15955.17
	Add Water Charges @ 1% except on A i.e on (15,955.17 - 1,365.38 =) 14,589.79				145.90
	TOTAL				16101.07

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% except on A i.e on (16,101.07 - 1,365.38 =) 14,735.69				2210.35
	Cost of 10 sqm				18311.42
	Cost of 1 sqm				1831.14
	Say				1831.15
11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.				
11.46.1	Size of Tile 500x500 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Vitrified floor tiles 50 x 50 cm size = 1.00 sqm +				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	770.00	789.25
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	5003.35	70.05
9999	Mortar for pointing in white cement	L.S.	3.640	1.78	6.48
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.250	329.00	82.25
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				1136.58
	Add Water Charges @ 1%				11.37
	TOTAL				1147.95
	Add CPOH @ 15%				172.19
	Cost of 1 sqm				1320.14
	Say				1320.15
11.46.2	Size of Tile 600x600 mm				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+Add				
	wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	850.00	871.25
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	5003.35	70.05
9999	Mortar for pointing in white cement	L.S.	3.640	1.78	6.48
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.250	329.00	82.25
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				1218.58
	Add Water Charges @ 1%				12.19
	TOTAL				1230.77
	Add CPOH @ 15%				184.62
	Cost of 1 sqm				1415.39
	Say				1415.40

11.46.3 Size of Tile 800x800 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	950.00	973.75
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	5003.35	70.05
9999	Mortar for pointing in white cement	L.S.	3.640	1.78	6.48
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.250	329.00	82.25
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				1321.08
	Add Water Charges @ 1%				13.21
	TOTAL				1334.29
	Add CPOH @ 15%				200.14
	Cost of 1 sqm				1534.43
	Say				1534.45

11.46.4 Size of Tile 1000x1000 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1600.00	1640.00
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	5003.35	70.05
9999	Mortar for pointing in white cement	L.S.	3.640	1.78	6.48
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.003	6300.00	20.79
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.250	329.00	82.25
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				1987.33
	Add Water Charges @ 1%				19.87
	TOTAL				2007.20
	Add CPOH @ 15%				301.08
	Cost of 1 sqm				2308.28
	Say				2308.30

11.47 Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).

11.47.1 Size of Tile 500x500 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm		Total = 1.025 sqm		
8620	Vitrified floor tile 50x50 cm	sqm	1.025	770.00	789.25
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
8731	High polymer modified quickset tile adhesive	per kg	10.000	20.00	200.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.500	329.00	164.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				1321.51
	Add Water Charges @ 1%				13.22
	TOTAL				1334.73
	Add CPOH @ 15%				200.21
	Cost of 1 sqm				1534.94
	Say				1534.95

11.47.2 Size of Tile 600x600 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	850.00	871.25
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
8731	High polymer modified quickset tile adhesive	per kg	10.000	20.00	200.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.500	329.00	164.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				1403.51
	Add Water Charges @ 1%				14.04
	TOTAL				1417.55
	Add CPOH @ 15%				212.63
	Cost of 1 sqm				1630.18
	Say				1630.20

11.47.3 Size of Tile 800x800 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	950.00	973.75
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
8731	High polymer modified quickset tile adhesive	per kg	10.000	20.00	200.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.500	329.00	164.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				1506.01
	Add Water Charges @ 1%				15.06
	TOTAL				1521.07
	Add CPOH @ 15%				228.16
	Cost of 1 sqm				1749.23
	Say				1749.25

11.47.4 Size of Tile 1000x1000 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1600.00	1640.00
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
8731	High polymer modified quickset tile adhesive	per kg	10.000	20.00	200.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0115	Coolie	day	0.500	329.00	164.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				2172.26
	Add Water Charges @ 1%				21.72
	TOTAL				2193.98
	Add CPOH @ 15%				329.10
	Cost of 1 sqm				2523.08
	Say				2523.10

11.48 Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling/ grouting and finishing complete as per direction of Engineer-in-charge.

11.48.1 Size of Tile 500x500 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
8682	Epoxy Grout	kg	0.210	510.00	107.10
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.100	435.00	43.50
0115	Coolie	day	0.100	329.00	32.90
9999	Sundries including carriage	L.S.	5.000	1.78	8.90
	TOTAL				192.40
	Add Water Charges @ 1%				1.92
	TOTAL				194.32
	Add CPOH @ 15%				29.15
	Cost of 1 sqm				223.47
	Say				223.45

11.48.2 Size of Tile 600x600 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
8682	Epoxy Grout	kg	0.180	510.00	91.80
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.080	435.00	34.80
0115	Coolie	day	0.080	329.00	26.32
9999	Sundries including carriage	L.S.	5.000	1.78	8.90
	TOTAL				161.82
	Add Water Charges @ 1%				1.62
	TOTAL				163.44
	Add CPOH @ 15%				24.52
	Cost of 1 sqm				187.96
	Say				187.95

11.48.3 Size of Tile 800x800 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
8682	Epoxy Grout	kg	0.150	510.00	76.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.060	435.00	26.10
0115	Coolie	day	0.060	329.00	19.74
9999	Sundries including carriage	L.S.	5.000	1.78	8.90
	TOTAL				131.24
	Add Water Charges @ 1%				1.31
	TOTAL				132.55
	Add CPOH @ 15%				19.88
	Cost of 1 sqm				152.43
	Say				152.45

11.48.4 Size of Tile 1000x1000 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
8682	Epoxy Grout	kg	0.110	510.00	56.10
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.040	435.00	17.40
0115	Coolie	day	0.040	329.00	13.16
9999	Sundries including carriage	L.S.	5.000	1.78	8.90
	TOTAL				95.56
	Add Water Charges @ 1%				0.96
	TOTAL				96.52
	Add CPOH @ 15%				14.48
	Cost of 1 sqm				111.00
	Say				111.00

11.49 Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).

11.49.1 Size of Tile 500x500 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	770.00	789.25
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
8731	High polymer modified quickset tile adhesive	per kg	10.000	20.00	200.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.400	329.00	131.60
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				1266.86
	Add Water Charges @ 1%				12.67
	TOTAL				1279.53
	Add CPOH @ 15%				191.93
	Cost of 1 sqm				1471.46
	Say				1471.45

11.49.2 Size of Tile 600x600 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	850.00	871.25
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
8731	High polymer modified quickset tile adhesive	per kg	10.000	20.00	200.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.400	329.00	131.60
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				1348.86
	Add Water Charges @ 1%				13.49
	TOTAL				1362.35
	Add CPOH @ 15%				204.35
	Cost of 1 sqm				1566.70
	Say				1566.70

11.49.3 Size of Tile 800x800 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for</i>				
	MATERIAL:				
	Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	950.00	973.75
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
8731	High polymer modified quickset tile adhesive	per kg	10.000	20.00	200.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.400	329.00	131.60
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				1451.36
	Add Water Charges @ 1%				14.51
	TOTAL				1465.87
	Add CPOH @ 15%				219.88
	Cost of 1 sqm				1685.75
	Say				1685.75

11.49.4 Size of Tile 1000x1000 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1600.00	1640.00
9999	Carriage of tiles	L.S.	6.240	1.78	11.11
8731	High polymer modified quickset tile adhesive	per kg	10.000	20.00	200.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.200	435.00	87.00
0115	Coolie	day	0.400	329.00	131.60
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.910	1.78	47.90
	TOTAL				2117.61
	Add Water Charges @ 1%				21.18
	TOTAL				2138.79
	Add CPOH @ 15%				320.82
	Cost of 1 sqm				2459.61
	Say				2459.60

11.50 Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
9999	Mortar for pointing in white cement with matching pigment	L.S.	3.120	1.78	5.55
9999	Labour	L.S.	1.000	1.78	1.78
	TOTAL				7.33
	Add Water Charges @ 1%				0.07
	TOTAL				7.40
	Add CPOH @ 15%				1.11
	Cost of 1 sqm				8.51
	Say				8.50

- 11.51 Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Details of cost per 10 sqm				
	18 mm thick italian marble stone slab 10.00 sqm				
	Add for wastage 15%= 1. 50 sqm18 mm thick Italian marble stone slabTotal: 11.50 sqm				
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	11.500	3600.00	41400.00
	Base mortar1:4 (1 cement :4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	Cemnt for slurry@, 4.4 kg/sqm(i) for bedding=44 kg+(ii) for jointing= 6 kgTotal=50 kg				
0368	White Cement	tonne	0.050	14000.00	700.00
2209	Carriage of cement	tonne	0.050	94.65	4.73
9999	Carriage of marble slab	L.S.	26.910	1.78	47.90
	LABOUR:				
	For finishing , polishing and fixing				
0123	Mason (brick layer) 1 st class	day	1.200	435.00	522.00
0114	Beldar	day	1.000	329.00	329.00
0115	Coolie	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00
0013	Machine for rubbing of floors	day	4.000	350.00	1400.00
9999	Mortar for pointing in white cement	L.S.	25.740	1.78	45.82
	TOTAL				47527.99
	Add Water Charges @ 1%				475.28
	TOTAL				48003.27
	Add CPOH @ 15%				7200.49
	Cost of 10 sqm				55203.76
	Cost of 1 sqm				5520.38
	Say				5520.40

- 11.52 Providing and laying machine cut, mirror polished Marble stone flooring, in required design (Simple geometrical, abstract etc.) and in patterns in combination with Italian marble stones of different colours, shades and finished surface texture etc., in linear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.**
- a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.00 sqm</i>				
	Details of cost per 10 sqm				
	MATERIAL:				
	18 mm thick italian marble stone slab 10.00 sqm				
	Add for wastage 20%= 2.00 sqmTotal: 12.00 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	12.000	3600.00	43200.00
3.9	Base mortar 1:4 (1 cement :4 coarse sand) Rate as per Item Number 3.9 of SH: Mortars Cemnt for slurry @, 4.4 kg/sqm (i) for bedding=44 kg+ (ii) for jointing= 6 kgTotal=50 kg	cum	0.224	4172.05	934.54
0368	White Cement	tonne	0.050	14000.00	700.00
2209	Carriage of cement	tonne	0.050	94.65	4.73
9999	carriage of marble slab	L.S.	26.910	1.78	47.90
	LABOUR:				
	For finishing , polishing and fixing				
0123	Mason (brick layer) 1 st class	day	1.750	435.00	761.25
0115	Coolie	day	1.250	329.00	411.25
0114	Beldar	day	1.000	329.00	329.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.000	363.00	1815.00
0013	Machine for rubbing of floors	day	4.000	350.00	1400.00
9999	Mortar for pointing in white cement	L.S.	25.740	1.78	45.82
	TOTAL				49649.49
	Add Water Charges @ 1%				496.49
	TOTAL				50145.98
	Add CPOH @ 15%				7521.90
	Cost of 10.00 sqm				57667.88
	Cost of 1 sqm				5766.79
	Say				5766.80

11.53 Providing and fixing Glass mosaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge:

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 8.00 sqm</i>				
	Glass mosaic tiles (10 mm x 10 mm x 4mm)				
	Add for wastage 2.5%= 0.2 sqm				
	Total: 8.20 sqm				
	MATERIAL:				
1242	Glass mosaic tiles (20 mm x 20 mm x 4 mm).	sqm	8.200	1200.00	9840.00
1243	Tile fixing chemical adhesive	kg	20.000	25.00	500.00
1244	Cement Polymer Grout Compound	kg	10.000	30.00	300.00
1245	Acid for cleaning tiles	litre	4.000	18.00	72.00
9999	Carriage of tiles (8x6.24=49.92)	L.S.	49.920	1.78	88.86
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.600	435.00	696.00
0115	Coolie	day	1.600	329.00	526.40
9999	Sundries including carriage of adhesive etc.	L.S.	26.910	1.78	47.90
	TOTAL				12071.16
	Add Water Charges @ 1%				120.71
	TOTAL				12191.87
	Add CPOH @ 15%				1828.78
	Cost of 8 sqm				14020.65
	Cost of 1 sqm				1752.58
	Say				1752.60

- 11.54 Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of :**
- a) Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mmx100mmx3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.
- b) Stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.
- c) Providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip non-combustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.

11.54.1 300 mm Finished Floor Height (FFH)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100.00 sqm</i>				
	Details of Cost for : 100.00 Sqm				
	MATERIAL:				
2711	FS800H Grade Flooring Panel (Size 600 mm x 600 mm x 32 mm)	each	292.000	750.00	219000.00
	(i/c 5 % wastage)				
2712	Zinc Electroplated Pedestals - 300 mm	each	360.000	140.00	50400.00
2714	Zinc Electroplated Tube Stinger	each	570.000	66.15	37705.50
2715	Machine Screw for Fixing	each	1140.000	2.00	2280.00
7048	Rawl plug 50 mm (designation 10 nos)	each	1440.000	10.00	14400.00
9999	Carriage of material	L.S.	490.000	1.78	872.20
	LABOUR:				
0111	Carpenter 1 st class	day	25.000	435.00	10875.00
0114	Beldar	day	25.000	329.00	8225.00
9999	Sundries	L.S.	329.000	1.78	585.62
	TOTAL				344343.32
	Add Water Charges @ 1%				3443.43
	TOTAL				347786.75
	Add CPOH @ 15%				52168.01
	Cost of 100.00 sqm				399954.76
	Cost of 1 sqm				3999.55
	Say				3999.55

- 11.54 Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of :**
- a) Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mmx100mmx3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.
- b) Stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.
- c) Providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip non-combustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.

11.54.2 450 mm Finished Floor Height (FFH).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100.00 sqm</i>				
	Details of Cost for : 100.00 Sqm				
	MATERIAL:				
2711	FS800H Grade Flooring Panel (Size 600 mmx600mm x32 mm)	each	292.000	750.00	219000.00
2713	Zinc Electroplated Pedestals - 450 mm	each	360.000	136.25	49050.00
2714	Zinc Electroplated Tube Stinger	each	570.000	66.15	37705.50
2715	Machine Screw for Fixing	each	1140.000	2.00	2280.00
7048	Rawl plug 50 mm (designation 10 nos)	each	1440.000	10.00	14400.00
9999	Carriage of material	L.S.	490.000	1.78	872.20
	LABOUR:				
0111	Carpenter 1st class	day	25.000	435.00	10875.00
0114	Beldar	day	25.000	329.00	8225.00
9999	Sundries	L.S.	329.000	1.78	585.62
	TOTAL				342993.32
	Add Water Charges @ 1%				3429.93
	TOTAL				346423.25
	Add CPOH @ 15%				51963.49
	Cost of 100.00 sqm				398386.74
	Cost of 1 sqm				3983.87
	Say				3983.85

SUB HEAD : 12.0

ROOFING

- 12.1 Providing corrugated G.S. sheet roofing including vertical/ curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.**

12.1.1 1.00 mm thick with zinc coating not less than 275 gm/ m2

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a roof with each sloping side 18.09x 5.10m and the slope being flatter than 1 vertical to 2.5 horizontal. Area of roof = $2 \times 18.09 \times 5.1 = 184.518$ sqm				
	MATERIAL:				
	C.G.S. sheets 2x27 =54 Nos. of size 2.5x0.9 metre @19.35 kg each =1044.90kg.				
	2x27=54 Nos. of size 2.8x0.9@21.67kg. each = 1170.18kg.				
	Total = 2215.08kg.				
	+Add 5% Wastage = 110.75kg.				
	Total = 2325.83 kg.				
	23.26 quintals				
3050	Galvanised steel corrugated sheets	quintal	23.260	5800.00	134908.00
2302	Carriage of G.I.sheet and accessories	tonne	2.326	94.65	220.16
	G.I.Seam bolts and nuts				
	60cm centre to centre zig-zag i.e. 30cm centre to centre straight				
	Breadth is 5.1 metre				
	No. of bolts in one lap $5.1/0.3 = 17$ Nos.				
	$2 \times 26(\text{laps}) \times 17$ Nos. = 884 Nos				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	884.000	25.00	2210.00
	G.I..J or L hooks 8mm dia.				
	(No. of purlins to be used 5 on either side)				
	$2 \times 5 \times 27(\text{No. of sheets}) \times 23$ Nos. of bolts in each sheet = 810 Nos				
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	810.000	120.00	9720.00
1207	G.I. Limpet washer	100 nos	1694.000	35.00	592.90
	(total of seam and J bolts) $884+810=1694$				
1208	Bitumen washer	100 Nos	1694.000	30.00	508.20
9999	Carriage of bolts and washers	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	53.820	1.78	95.80
	LABOUR:				
0130	Mistry	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	15.500	399.00	6184.50
0114	Beldar	day	15.500	329.00	5099.50
4202	Red oxide Zinc chromate primer	litre	2.530	70.00	177.10
9999	Carriage of material	L.S.	0.520	1.78	0.93
0131	Painter	day	1.130	399.00	450.87
0115	Coolie	day	1.130	329.00	371.77
9999	Brushes, sand papers i/c sundries.	L.S.	50.570	1.78	90.01
0845	Roofing paint for iron sheets in red colour	litre	3.750	130.00	487.50
9999	Carriage of paint	L.S.	6.760	1.78	12.03
0131	Painter	day	2.530	399.00	1009.47
0115	Coolie	day	2.530	329.00	832.37

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Brushes and sandpapers	L.S.	31.980	1.78	56.92
9999	Sundries	L.S.	38.090	1.78	67.80
	TOTAL				163709.23
	Add Water Charges @ 1%				1637.09
	TOTAL				165346.32
	Add CPOH @ 15%				24801.95
	Cost of 184.518 sqm				190148.27
	Cost of 1 sqm				1030.51
	Say				1030.50

12.1.2 0.80 mm thick with zinc coating not less than 275 gm/ m2

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal. Area of roof = $2 \times 18.09 \times 5.1 = 184.518$ sqm</i> <i>Details of length and breadth.</i> <i>Length = $26(\text{laps}) \times 0.135(\text{each lap}) = 3.51$</i> <i>Width of Corrugated sheet with 10 corrugation measured end to end = 0.8 m</i> <i>27 (Nos. of sheets) $\times$ 0.80 (width of sheet) = 21.60 length</i> <i>Less laps = 3.51</i> <i>Length = 18.09</i> <i>Breadth on one side -</i> <i>C.G.S. Sheet 1 No. of = 2.5 metres length +</i> <i>C.G.S. Sheet 1 No. of = 2.8 metres length = 5.3 metres</i> <i>Deduct end lap of 20cm (-) 0.2 metres</i> <i>breadth = 5.1 m</i> MATERIAL: <i>C.G.I. Sheets 0.8mm thick</i> <i>2x27=54Nos. @15.82kg.each = 854.38kg(X)</i> <i>2.5mx0.9m is the size of plain G.I.sheet which on being corrugated will become 2.5mx0.8m (The size of plain sheet is taken because the weight is available only of plain sheets) (Refer I.S. Code 277-1962)</i> <i>2x27=54Nos. Of size. 2.8x0.9 @17.72kg each = 956.8kg (Y)</i> <i>Total of (X)+(Y) = 1811.16kg.</i> <i>Add wastage @5% = 90.56kg.</i> <i>Total = 1901.72kg = 19.02 q</i>				
3050	Galvanised steel corrugated sheets	quintal	19.020	5800.00	110316.00
2302	Carriage of G.I.sheet and accessories	tonne	1.902	94.65	180.02
	G.I. seam bolts and nuts 60cm centre to centre zig zag				
	i.e. 30cm. centre to centre straight				
	Breadth is 5.1 metre				
	No. of bolts in one lap $5.1/0.3 = 17$				
	Nos. $2 \times 26(\text{laps}) \times 17$ Nos. = 884 Nos				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	884.000	25.00	2210.00
1023	Galvanised steel J or L hooks 8 mm dia (No. of purlins to be used 5 on either side) 2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 Nos	810.000	120.00	9720.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810=1694	100 nos	1694.000	35.00	592.90
1208	Bitumen washer	100 Nos	1694.000	30.00	508.20
9999	Carriage of bolts and washers	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	53.820	1.78	95.80
	LABOUR:				
0130	Mistry	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	15.500	399.00	6184.50
0114	Beldar	day	15.500	329.00	5099.50
4202	Red oxide Zinc chromate primer	litre	2.530	70.00	177.10
9999	Carriage of material	L.S.	0.520	1.78	0.93
0131	Painter	day	1.130	399.00	450.87
0115	Coolie	day	1.130	329.00	371.77
9999	Brushes, sand papers i/c sundries.	L.S.	50.570	1.78	90.01
0845	Roofing paint for iron sheets in red colour	litre	3.750	130.00	487.50
9999	Carriage of paint	L.S.	6.760	1.78	12.03
0131	Painter	day	2.530	399.00	1009.47
0115	Coolie	day	2.530	329.00	832.37
9999	Brushes and sandpapers	L.S.	31.980	1.78	56.92
9999	Sundries	L.S.	38.090	1.78	67.80
	TOTAL				139077.09
	Add Water Charges @ 1%				1390.77
	TOTAL				140467.86
	Add CPOH @ 15%				21070.18
	Cost of 184.518 sqm				161538.04
	Cost of 1 sqm				875.46
	Say				875.45

12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m2

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal. Area of roof = 2x18.09x5.1 = 184.518 sqm				
	Details of length and breadth.				
	Length = 26(laps)x0.135(each lap)=3.51				
	Width of Corrugated sheet with 10 corrugation measured end to end = 0.8 metres 27 (Nos. of sheets)x0.80 (width of sheet = 21.60				
	length Less laps = 3.51				
	Length = 18.09				
	Breadth on one side -				
	C.G.S. Sheet 1 No. of = 2.5 metres length+				
	C.G.S. Sheet 1 No. of = 2.8 metres length				
	= 5.3 metres				
	Deduct end lap of 20cm (-)0.2 metres				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	breadth = 5.1m MATERIAL: C.G.I.Sheets 0.8mm thick 2x27=54Nos. @12.82kg.each = 692.28 kg(X)2.5mx0.9m is the size of plain G.I. sheet which on being corrugated will become 2.5mx0.8m (The size of plain sheet is taken because the weight is available only of plain sheets)(Refer I.S. Code 277-1962) 2x27=54Nos. of size-2.8x0.9 @13.38kg each = 775.44kg (Y) Total of (X)+(Y) = 1467.72kg. Add wastage @5% = 73.39kg. Total = 1541.11kg = 15.41 q				
3050	Galvanised steel corrugated sheets	quintal	15.410	5800.00	89378.00
2302	Carriage of G.I.sheet and accessories G.I. seam bolts and nuts 60cm centre to centre zig zag i.e. 30cm centre to centre straight Breadth is 5.1 metre No. of bolts in one lap 5.1/0.3 =17 Nos. 2x26(laps)x17 Nos. = 884 Nos	tonne	1.540	94.65	145.76
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	884.000	25.00	2210.00
1023	Galvanised steel J or L hooks 8 mm dia (No. of purlins to be used 5 on either side) 2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 Nos	810.000	120.00	9720.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810= 1694	100 nos	1694.000	35.00	592.90
1208	Bitumen washer	100 Nos	1694.000	30.00	508.20
9999	Carriage of bolts and washers	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	53.820	1.78	95.80
	LABOUR:				
0130	Mistry	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	15.500	399.00	6184.50
0114	Beldar	day	15.500	329.00	5099.50
4202	Red oxide Zinc chromate primer	litre	2.530	70.00	177.10
9999	Carriage of material	L.S.	0.520	1.78	0.93
0131	Painter	day	1.130	399.00	450.87
0115	Coolie	day	1.130	329.00	371.77
9999	Brushes, sand papers i/c sundries.	L.S.	50.570	1.78	90.01
0845	Roofing paint for iron sheets in red colour	litre	3.750	130.00	487.50
9999	Carriage of paint	L.S.	6.760	1.78	12.03
0131	Painter	day	2.530	399.00	1009.47
0115	Coolie	day	2.530	329.00	832.37
9999	Brushes and sandpapers	L.S.	31.980	1.78	56.92
9999	Sundries	L.S.	38.090	1.78	67.80
	TOTAL				118104.83
	Add Water Charges @ 1%				1181.05
	TOTAL				119285.88
	Add CPOH @ 15%				17892.88
	Cost of 184.518 sqm				137178.76
	Cost of 1 sqm				743.44
	Say				743.45

12.2	Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq decimeter for chimney stacks, skylight etc.:				
12.2.1	1.00 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm2 and the perimeter of the hole 3 metre</i>				
	LABOUR:				
0102	Blacksmith 1 st class	day	0.150	435.00	65.25
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				114.60
	Add Water Charges @ 1%				1.15
	TOTAL				115.75
	Add CPOH @ 15%				17.36
	Cost of 3 metre				133.11
	Cost of 1 metre				44.37
	Say				44.35
12.2.2	0.80 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm2 and the perimeter of the hole 3 metre</i>				
	LABOUR:				
0102	Blacksmith 1 st class	day	0.120	435.00	52.20
0114	Beldar	day	0.120	329.00	39.48
	TOTAL				91.68
	Add Water Charges @ 1%				0.92
	TOTAL				92.60
	Add CPOH @ 15%				13.89
	Cost of 3 metre				106.49
	Cost of 1 metre				35.50
	Say				35.50
12.2.3	0.63 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm2 and the perimeter of the hole 3 metre</i>				
	LABOUR:				
0102	Blacksmith 1 st class	day	0.120	435.00	52.20
0114	Beldar	day	0.120	329.00	39.48
	TOTAL				91.68
	Add Water Charges @ 1%				0.92
	TOTAL				92.60
	Add CPOH @ 15%				13.89
	Cost of 3 metre				106.49
	Cost of 1 metre				35.50
	Say				35.50

12.3	Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 square decimeter:				
12.3.1	1.00 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes of 0.5 metre dia-metre Perimetre of 10 nos 10x22/7x</i>				
	<i>0.5 = 15.71 metre</i>				
	LABOUR:				
0102	Blacksmith 1 st class	day	3.130	435.00	1361.55
0114	Beldar	day	6.260	329.00	2059.54
	TOTAL				3421.09
	Add Water Charges @ 1%				34.21
	TOTAL				3455.30
	Add CPOH @ 15%				518.29
	Cost of 15.71 metre				3973.59
	Cost of 1 metre				252.93
	Say				252.95
12.3.2	0.80 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes of 0.5 metre dia-metre Perimetre of 10 nos 10x22/7x</i>				
	<i>0.5 = 15.71 metre</i>				
	LABOUR:				
0102	Blacksmith 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	5.000	329.00	1645.00
	TOTAL				2732.50
	Add Water Charges @ 1%				27.32
	TOTAL				2759.82
	Add CPOH @ 15%				413.97
	Cost of 15.71 metre				3173.79
	Cost of 1 metre				202.02
	Say				202.00
12.3.3	0.63 mm thick				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes of 0.5 metre dia-metre Perimetre of 10 nos 10x22/7x</i>				
	<i>0.5 = 15.71 metre</i>				
	LABOUR:				
0102	Blacksmith 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	5.000	329.00	1645.00
	TOTAL				2732.50
	Add Water Charges @ 1%				27.32
	TOTAL				2759.82
	Add CPOH @ 15%				413.97
	Cost of 15.71 metre				3173.79
	Cost of 1 metre				202.02
	Say				202.00

12.4	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.				
12.4.1	0.80 mm thick with zinc coating not less than 275 gm/ m2				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.35 metres long ridge</i>				
	MATERIAL:				
	0.80mm thick with zinc coating not less than 275gm/m2				
	Consider the length of the ridge 10.35 metres.				
	The ridge will be made out of plain G.I.				
	Sheets 0.9mx1.8m				
	Three pieces will be 0.9m long and 0.60m wide overlapping 22.5cm.				
	Materials:				
	G.I. plain sheets 0.80 thick				
	1.80x0.90m size 5 Nos. @ 11.39kg. sheet = 56.95kg +				
	Add 2% wastage = 1.14 kg.				
	Total = 58.09 kg. or 0.58 quintal				
0992	Galvanised steel plain sheets	quintal	0.580	5350.00	3103.00
2302	Carriage of G.I.sheet and accessories	tonne	0.058	94.65	5.49
0222	Seam bolts and nuts 6 mm dia and 25 mm long 25mmx6mm (There are 14 joints)	10 Nos	28.000	40.00	112.00
1211	G.I. plain washer for seam bolts	100 Nos	28.000	30.00	8.40
1208	Bitumen washer	100 Nos	28.000	30.00	8.40
9999	Carriage of seam bolts and washers	L.S.	1.820	1.78	3.24
9999	Sundries	L.S.	13.520	1.78	24.07
	LABOUR:				
0130	Mistry	day	0.400	435.00	174.00
0102	Blacksmith 1 st class	day	1.200	435.00	522.00
0103	Blacksmith 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	2.400	329.00	789.60
	TOTAL				5069.40
	Add Water Charges @ 1%				50.69
	TOTAL				5120.09
	Add CPOH @ 15%				768.01
	Cost of 10.35 metre				5888.10
	Cost of 1 metre				568.90
	Say				568.90
12.4	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.				
12.4.2	0.63 mm thick with zinc coating not less than 275 gm/ m2				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.35 metres long ridge</i>				
	G.I. plain sheets 0.63mm thick				
	1.8x0.9m size 5 Nos. @9.23 kg. per sheet = 46.15 kg.+				
	Add 2% wastage = 0.91 kg.				
	Total = 47.07 kg. Say 0.47 q				
0992	Galvanised steel plain sheets	quintal	0.470	5350.00	2514.50
2302	Carriage of G.I.sheet and accessories	tonne	0.047	94.65	4.45

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0222	Seam bolts and nuts 6 mm dia and 25 mm long 25mmx6mm (There are 14 joints)	10 Nos	28.000	40.00	112.00
1211	G.I. plain washer for seam bolts	100 Nos	28.000	30.00	8.40
1208	Bitumen washer	100 Nos	28.000	30.00	8.40
9999	Carriage of seam bolts and washers	L.S.	1.820	1.78	3.24
9999	Sundries	L.S.	13.520	1.78	24.07
	LABOUR:				
0130	Mistry	day	0.400	435.00	174.00
0102	Blacksmith 1 st class	day	1.200	435.00	522.00
0103	Blacksmith 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	2.400	329.00	789.60
	TOTAL				4479.86
	Add Water Charges @ 1%				44.80
	TOTAL				4524.66
	Add CPOH @ 15%				678.70
	Cost of 10.35 metre				5203.36
	Cost of 1 metre				502.74
	Say				502.75
12.5	Providing valleys of 90 cm wide overall in plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete:				
12.5.1	1.60 mm thick with zinc coating not less than 350 gm/ m2				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.325m</i>				
	MATERIAL:				
	G.I. plain sheets 2.5x0.9m4				
	Nos. @ 29.95kg/sheet =119.80kg.+				
	Add 2% wastage = 2.40kg.				
	Total = 122.20 kg. or 1.222 quintal				
0992	Galvanised steel plain sheets	quintal	1.222	5350.00	6537.70
2302	Carriage of G.I.sheet and accessories	tonne	0.120	94.65	11.36
0222	Seam bolts and nuts 6 mm dia and 25 mm long 25mmx6mm (There are 14 joints)	10 Nos	12.000	40.00	48.00
1211	G.I. plain washer for seam bolts	100 Nos	12.000	30.00	3.60
1208	Bitumen washer	100 Nos	12.000	30.00	3.60
9999	Carriage of bolts, nuts and washers	L.S.	0.910	1.78	1.62
9999	Sundries	L.S.	13.520	1.78	24.07
	LABOUR:				
0130	Mistry	day	0.400	435.00	174.00
0102	Blacksmith 1 st class	day	1.200	435.00	522.00
0103	Blacksmith 2nd class	day	0.800	399.00	319.20
0114	Beldar	day	2.400	329.00	789.60
	TOTAL				8434.75
	Add Water Charges @ 1%				84.35
	TOTAL				8519.10
	Add CPOH @ 15%				1277.86
	Cost of 9.325 metre				9796.96
	Cost of 1 metre				1050.61
	Say				1050.60

12.6	Providing and fixing of 40 cm overall width plain G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed in wall with cement mortar 1:3 (1cement : 3 coarse sand).				
12.6.1	1.00 mm thick with zinc coating not less than 275 gm/ m2				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 12.125 metres</i>				
	Consider a length of flashing 12.125 metres				
	MATERIAL:				
	G.I. plain sheet 1.25mm thick 3.2x0.75m				
	2 Nos. @ 20.64 kg. =41.28 kg.+				
	Add 2% wastage = 0.83 kg				
	Total = 42.11 kg. or 0.4211 quintal				
0992	Galvanised steel plain sheets	quintal	0.421	5350.00	2252.88
2302	Carriage of G.I.sheet and accessories	tonne	0.041	94.65	3.88
0222	Seam bolts and nuts 6 mm dia and 25 mm long (taking 2 bolts per joints)	10 Nos	6.000	40.00	24.00
1207	G.I. Limpet washer	100 nos	6.000	35.00	2.10
1208	Bitumen washer	100 Nos	6.000	30.00	1.80
9999	Carriage of G.I. seam bolts and washers	L.S.	0.390	1.78	0.69
9999	Sundries	L.S.	10.790	1.78	19.21
	LABOUR:				
0130	Mistry	day	0.500	435.00	217.50
0102	Blacksmith 1 st class	day	1.480	435.00	643.80
0103	Blacksmith 2nd class	day	1.000	399.00	399.00
0114	Beldar	day	3.000	329.00	987.00
	TOTAL				4551.86
	Add Water Charges @ 1%				45.52
	TOTAL				4597.38
	Add CPOH @ 15%				689.61
	Cost of 12.125 metre				5286.99
	Cost of 1 metre				436.04
	Say				436.05
12.7	Providing and fixing 15 cm wide, 45 cm overall semi circular plain G.S. sheet gutter with iron brackets 40x3 mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete.				
12.7.1	0.80 mm thick with zinc coating not less than 275 gm/ m2				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.04m</i>				
	0.80mm thick with zinc coating not less than				
	275gm/m2				
	Consider a length of 9.04m				
	Sheet used = 2.5x0.90m = 2 Nos.				
	Wt. = 2x15.82=31.64 kg.				
	Total = 0.3164quintal				
0992	Galvanised steel plain sheets	quintal	0.3146	5350.00	1692.74
2302	Carriage of G.I.sheet and accessories	tonne	0.0316	94.65	2.99
1008	Flats up to 10 mm in thickness	quintal	0.0749	4200.00	314.58

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	20.000	25.00	50.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.000	12.00	360.00
1210	G.I. plain washer thin	100 Nos	70.000	32.00	22.40
1208	Bitumen washer	100 Nos	40.000	30.00	12.00
9999	Carriage of G.I. seam bolts and washers	L.S.	2.730	1.78	4.86
9999	Sundries	L.S.	5.330	1.78	9.49
	LABOUR:				
0102	Blacksmith 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries	L.S.	12.610	1.78	22.45
0130	Mistry	day	0.280	435.00	121.80
0102	Blacksmith 1 st class	day	0.840	435.00	365.40
0112	Carpenter 2nd class	day	0.620	399.00	247.38
0114	Beldar	day	1.680	329.00	552.72
	TOTAL				4160.81
	Add Water Charges @ 1%				41.61
	TOTAL				4202.42
	Add CPOH @ 15%				630.36
	Cost of 9.04 metre				4832.78
	Cost of 1 metre				534.60
	Say				534.60

12.7.2 0.63 mm thick with zinc coating not less than 275 gm/ m2

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.04m</i>				
	0.63mm thick with zinc coating not less than 275gm/m2				
	Consider a length of 9.04m				
	Sheet used = 2.5x0.90m = 2 Nos.				
	Wt. = 2x11.82=23.64 kg.				
	Total = 0.2364quintal				
0992	Galvanised steel plain sheets	quintal	0.2364	5350.00	1264.74
2302	Carriage of G.I.sheet and accessories	tonne	0.0236	94.65	2.23
1008	Flats up to 10 mm in thickness	quintal	0.0749	4200.00	314.58
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	20.000	25.00	50.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.000	12.00	360.00
1210	G.I. plain washer thin	100 Nos	70.000	32.00	22.40
1208	Bitumen washer	100 Nos	40.000	30.00	12.00
9999	Carriage of G.I. seam bolts and washers	L.S.	2.730	1.78	4.86
9999	Sundries	L.S.	5.330	1.78	9.49
	LABOUR:				
0102	Blacksmith 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries	L.S.	12.610	1.78	22.45
0130	Mistry	day	0.280	435.00	121.80
0102	Blacksmith 1 st class	day	0.840	435.00	365.40
0112	Carpenter 2nd class	day	0.620	399.00	247.38

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.680	329.00	552.72
	TOTAL				3732.05
	Add Water Charges @ 1%				37.32
	TOTAL				3769.37
	Add CPOH @ 15%				565.41
	Cost of 9.04 metre				4334.78
	Cost of 1 metre				479.51
	Say				479.50
12.8	Providing high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (as per IS : 14871) roofing up to any pitch and fixing with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 216.14 sqm area of roof upto 60° pitch</i>				
	Upto 60 degree pitch				
	Consider a shed of 20x10 metres. (External dimensions of plinth). Area of roof -				
	20.2x10.70m = 216.14 sqm.				
	MATERIAL:				
	Sheets used = 2x20 Nos.				
	x3.00 mx 1.05m= 126.00sqm+				
	2x20Nos.x2.50mx1.05m=105.00sqm.				
	Total = 231.00sqm. +				
	Add 3% wastage = 6.93				
	Total = 237.93sqm				
0223	Fibre (high impact poly propylene reinforced) cement corrugated sheet 6 mm thick	sqm	237.930	250.00	59482.50
	2x20x0.42147= 1.68588 +				
	2x20x0.35123= 1.4049=				
	3.0908+				
	Add 3 % wastage = 0.092				
	= 3.1835 Say 3.184 t				
2273	Carriage of A.C.sheet and accessories	tonne	3.184	94.65	301.37
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	476.000	120.00	5712.00
1208	Bitumen washer	100 Nos	476.000	30.00	142.80
1209	G.I. plain washer thick	100 Nos	476.000	35.00	166.60
9999	Carriage of bolts and washers	L.S.	8.060	1.78	14.35
9999	Sundries	L.S.	39.520	1.78	70.35
	LABOUR:				
0130	Mistry	day	2.340	435.00	1017.90
0112	Carpenter 2nd class	day	9.340	399.00	3726.66
0114	Beldar	day	9.340	329.00	3072.86
	TOTAL				73707.39
	Add Water Charges @ 1%				737.07
	TOTAL				74444.46
	Add CPOH @ 15%				11166.67
	Cost of 216.14 sqm				85611.13
	Cost of 1 sqm				396.09
	Say				396.10

12.9 Extra for straight cutting in polypropylene reinforced cement corrugated, semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter for chimney stacks, skylights etc.

Code No	Description	Unit	Quantity	Rate	Amount
	<i>Details of cost for 3 metres periphery</i>				
	Area of cutting 0.9mx0.6m=0.54sqm.				
	Perimeter = 3 metres				
	LABOUR:				
0111	Carpenter 1 st class	day	0.120	435.00	52.20
0114	Beldar	day	0.120	329.00	39.48
	TOTAL				91.68
	Add Water Charges @ 1%				0.92
	TOTAL				92.60
	Add CPOH @ 15%				13.89
	Cost of 3 metre				106.49
	Cost of 1 metre				35.50
	Say				35.50

12.10 Extra for circular cutting in polypropylene reinforced cement corrugated / semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4 holes of 0.72 metre diameter i.e. 9.05 metre periphery</i>				
	LABOUR:				
0111	Carpenter 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				764.00
	Add Water Charges @ 1%				7.64
	TOTAL				771.64
	Add CPOH @ 15%				115.75
	Cost of 9.05 metre				887.39
	Cost of 1 metre				98.05
	Say				98.05

12.11 Extra for providing and fixing wind ties of 40x6 mm flat iron section.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30 metres</i>				
	Extra for providing and fixing wind ties of 40x6mm flat iron section.				
	M.S. flat 40x6mm = 30 metres+				
	wastage @ 5% = 1.5 metres				
	= 31.50 metres @ 1.9 kg per metre				
	= 59.85 kg. = 0.5985 quintal				
1008	Flats up to 10 mm in thickness	quintal	0.5985	4200.00	2513.70
2205	Carriage of steel	tonne	0.060	94.65	5.68
9999	Sundries	L.S.	20.670	1.78	36.79

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0102	Blacksmith 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
	TOTAL				2938.17
	Add Water Charges @ 1%				29.38
	TOTAL				2967.55
	Add CPOH @ 15%				445.13
	Cost of 30 metre				3412.68
	Cost of 1 metre				113.76
	Say				113.75
12.12	Providing and fixing ridges and hips in fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.				
12.12.1	Corrugated serrated adjustable ridges				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for length of ridge 20.2 metres</i>				
	One piece corrugated serrated adjustable				
	ridgesConsider a shed of 20x10m (external				
	dimensions				
	at plinth).				
	Length of ridges 20.2 metre				
	MATERIAL:				
	Ridge piece required each of 1.22mm length				
	= 19Nos. +				
	Add 5% wastage = 0.95 No.				
	19.95 Nos x 1.22 = 24.339 metre				
0225	Fibre (high impact poly propylene reinforced)				
	cement corrugate serrated adjustable ridge	metre	24.339	210.00	5111.19
9999	Carriage (The ridge is to be fixed with the				
	same hooks as the Sheets)	L.S.	13.520	1.78	24.07
9999	Sundries	L.S.	6.760	1.78	12.03
	LABOUR:				
0130	Mistry	day	0.140	435.00	60.90
0112	Carpenter 2nd class	day	0.550	399.00	219.45
0114	Beldar	day	1.640	329.00	539.56
	TOTAL				5967.20
	Add Water Charges @ 1%				59.67
	TOTAL				6026.87
	Add CPOH @ 15%				904.03
	Cost of 20.2 metre				6930.90
	Cost of 1 metre				343.11
	Say				343.10

12.12.2 Plain wing adjustable ridges					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for length of ridge 20.2 metres</i>				
	Plain wing adjustable ridges				
	Consider a shed of 20x10m (external dimensions at plinth).				
	Length of ridges 20.2 metre				
	MATERIAL:				
	Ridge piece required each of 1.22m length =				
	19 Nos. +				
	Add 5% wastage = 0.95 No.1				
	9.95 nos x 1.22 = 24.339 metre				
0226	Fibre (high impact poly propylene reinforced) cement plain wing adjustable ridge	metre	24.339	210.00	5111.19
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.520	1.78	24.07
9999	Sundries	L.S.	6.760	1.78	12.03
	LABOUR:				
0130	Mistry	day	0.140	435.00	60.90
0112	Carpenter 2nd class	day	0.550	399.00	219.45
0114	Beldar	day	1.640	329.00	539.56
	TOTAL				5967.20
	Add Water Charges @ 1%				59.67
	TOTAL				6026.87
	Add CPOH @ 15%				904.03
	Cost of 20.2 metre				6930.90
	Cost of 1 metre				343.11
	Say				343.10

12.12.3 Close fitting adjustable ridges					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for length of ridge 20.2 metres</i>				
	Close fitting adjustable ridges				
	Consider a shed of 20x10m (external dimensions at plinth).				
	Length of ridges 20.2 metre				
	No. of ridge pairs required, of length				
	1.22m each = 22.00 Nos. +				
	Add 5% wastage =1.10 Nos.				
	Total = 23.10 Nos.x 1.22= 28.182 metre				
0224	Fibre (high impact poly propylene reinforced) cement close fitting adjustable ridge	metre	28.182	210.00	5918.22
9999	Carriage	L.S.	16.120	1.78	28.69
9999	Sundries	L.S.	7.150	1.78	12.73
	LABOUR:				
0130	Mistry	day	0.140	435.00	60.90
0112	Carpenter 2nd class	day	0.550	399.00	219.45
0114	Beldar	day	1.640	329.00	539.56
	TOTAL				6779.55
	Add Water Charges @ 1%				67.80
	TOTAL				6847.35
	Add CPOH @ 15%				1027.10
	Cost of 20.2 metre				7874.45
	Cost of 1 metre				389.82
	Say				389.80

12.12.4 Unserrated adjustable hips					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a shed with hip as 20.2 metres</i>				
	Unserrated adjustable hips				
	Consider a shed with hip as 20.2 metres				
	No. of hi pieces required = 19 pairs Length of each pair 1.22 metres				
	Add 5 % wastage = 0.95 pairs				
	Total = 19.95 pairs x 1.22 = 24.339 metre				
0227	Fibre (high impact poly propylene reinforced) cement unserrated adjustable ridge for hips	metre	24.339	300.00	7301.70
9999	Carriage	L.S.	6.760	1.78	12.03
9999	Sundries	L.S.	6.630	1.78	11.80
	LABOUR:				
0130	Mistry	day	0.140	435.00	60.90
0112	Carpenter 2nd class	day	0.550	399.00	219.45
0114	Beldar	day	1.640	329.00	539.56
	TOTAL				8145.44
	Add Water Charges @ 1%				81.45
	TOTAL				8226.89
	Add CPOH @ 15%				1234.03
	Cost of 20.2 metre				9460.92
	Cost of 1 metre				468.36
	Say				468.35
12.13 Providing and fixing fibre cement high impact polypropylene reinforced roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete:					
12.13.1 Corrugated apron pieces					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shed of 20.2 metres completed length</i>				
	MATERIAL:				
	Corrugated apron pieces of 1.12 metre length = 20 Nos.+				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos.x 1.12=23.52 metre				
0228	Fibre (high impact poly propylene reinforced) cement corrugated apron piece	metre	23.520	225.00	5292.00
9999	Carriage of apron pieces. (The apron pieces are to be fixed with the same hooks as the sheets)	L.S.	3.250	1.78	5.78
9999	Sundries	L.S.	3.250	1.78	5.78
	LABOUR:				
0130	Mistry	day	0.070	435.00	30.45
0112	Carpenter 2nd class	day	0.280	399.00	111.72
0114	Beldar	day	0.820	329.00	269.78
	TOTAL				5715.51
	Add Water Charges @ 1%				57.16
	TOTAL				5772.67
	Add CPOH @ 15%				865.90
	Cost of 20.2 metre				6638.57
	Cost of 1 metre				328.64
	Say				328.65

12.13.2 Eave's filler pieces					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for eaves filler for a shed of 20.2 metres complete length</i>				
	MATERIAL:				
	Eaves filler pieces of 1.016 metres length = 20 Nos. +				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos				
0229	Fibre (high impact poly propylene reinforced) cement eaves filler piece	each	21.000	175.00	3675.00
9999	(The eaves filler pieces are to be fixed with the same hooks as the sheets)	L.S.	3.250	1.78	5.78
9999	Sundries	L.S.	3.250	1.78	5.78
	LABOUR:				
0130	Mistry	day	0.070	435.00	30.45
0112	Carpenter 2nd class	day	0.280	399.00	111.72
0114	Beldar	day	0.820	329.00	269.78
	TOTAL				4098.51
	Add Water Charges @ 1%				40.99
	TOTAL				4139.50
	Add CPOH @ 15%				620.92
	Cost of 20.2 metre				4760.42
	Cost of 1 metre				235.66
	Say				235.65

12.13.3 North light curves					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for North light curve 20.2 metres long complete length</i>				
	MATERIAL:				
	North light curves of 1.016 metres nominal length = 20 Nos. +				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos.x 1.016 = 21.336 metre				
0230	Fibre (high impact poly propylene reinforced) cement north light curves	metre	21.336	310.00	6614.16
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	40.000	120.00	480.00
1209	G.I. plain washer thick	100 Nos	40.000	35.00	14.00
1208	Bitumen washer	100 Nos	40.000	30.00	12.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.880	1.78	17.59
9999	Sundries	L.S.	6.240	1.78	11.11
	LABOUR:				
0130	Mistry	day	0.100	435.00	43.50
0112	Carpenter 2nd class	day	0.300	399.00	119.70
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				7641.06
	Add Water Charges @ 1%				76.41
	TOTAL				7717.47
	Add CPOH @ 15%				1157.62
	Cost of 20.2 metre				8875.09
	Cost of 1 metre				439.36
	Say				439.35

12.13.4 Ventilator curves					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ventilator curve 20.2 metres long complete length</i>				
	MATERIAL:				
	North light curves of 1.016 metres nominal length = 20 Nos. +				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos.x 1.016 = 21.336 metre				
0231	Fibre (high impact poly propylene reinforced) cement ventilator curves	each	21.336	418.00	8918.45
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	40.000	120.00	480.00
1209	G.I. plain washer thick	100 Nos	40.000	35.00	14.00
1208	Bitumen washer	100 Nos	40.000	30.00	12.00
9999	Carriage of hooks, nuts, washers and curves	L.S.	9.880	1.78	17.59
9999	Sundries	L.S.	6.240	1.78	11.11
	LABOUR:				
0130	Mistry	day	0.100	435.00	43.50
0112	Carpenter 2nd class	day	0.300	399.00	119.70
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				9945.35
	Add Water Charges @ 1%				99.45
	TOTAL				10044.80
	Add CPOH @ 15%				1506.72
	Cost of 20.2 metre				11551.52
	Cost of 1 metre				571.86
	Say				571.85

12.13.5 Barge boards					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.70 metres</i>				
	MATERIAL:				
	Barge boards 2.50metres = 4 Nos. x 2.50				
	= 10.00 metre				
	Add 5% wastage = 0.50 metre.				
	Total = 10.50 metre				
0232	Fibre (high impact poly propylene reinforced) cement barge boards 6 mm thick	metre	10.500	418.00	4389.00
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	5.000	40.00	20.00
1211	G.I. plain washer for seam bolts	100 Nos	10.000	30.00	3.00
1208	Bitumen washer	100 Nos	5.000	30.00	1.50
9999	Carriage of barge boards, bolts, nus and washers	L.S.	9.360	1.78	16.66
9999	Sundries	L.S.	6.760	1.78	12.03
	LABOUR:				
0130	Mistry	day	0.040	435.00	17.40
0112	Carpenter 2nd class	day	0.060	399.00	23.94
0114	Beldar	day	0.400	329.00	131.60
	TOTAL				4615.13
	Add Water Charges @ 1%				46.15
	TOTAL				4661.28
	Add CPOH @ 15%				699.19
	Cost of 9.7 metre				5360.47
	Cost of 1 metre				552.63
	Say				552.65

12.13.6 Ridge finials					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 pair of ridge finials</i>				
	MATERIAL:				
	Ridge finials = 1pair				
	Add 5% wastage = 0.05pair.= 1.05 pair				
0233	Fibre (high impact poly propylene reinforced)				
	cement ridge finial	pair	1.050	165.00	173.25
9999	Carriage, sundries, fixing charge including providing and fixing, seam bolts and nuts, with G.I. and bitumen washers.	L.S.	10.790	1.78	19.21
	TOTAL				192.46
	Add Water Charges @ 1%				1.92
	TOTAL				194.38
	Add CPOH @ 15%				29.16
	Cost of 1 pair				223.54
	Say				223.55
12.13.7 Special north light curves					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for special north light ventilator curve 20.2 metres long complete length</i>				
	MATERIAL:				
	Special north light curves of 1.016 metres nominal length = 20 Nos. +				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos				
0234	Fibre (high impact poly propylene reinforced)				
	cement special north light curves	each	21.000	560.00	11760.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	40.000	120.00	480.00
1209	G.I. plain washer thick	100 Nos	40.000	35.00	14.00
1208	Bitumen washer	100 Nos	40.000	30.00	12.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.880	1.78	17.59
9999	Sundries	L.S.	6.240	1.78	11.11
	LABOUR:				
0130	Mistry	day	0.100	435.00	43.50
0112	Carpenter 2nd class	day	0.300	399.00	119.70
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				12786.90
	Add Water Charges @ 1%				127.87
	TOTAL				12914.77
	Add CPOH @ 15%				1937.22
	Cost of 20 nos				14851.99
	Cost of each				742.60
	Say				742.60

12.13.8 S type louvers					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 8.74 metre</i>				
	MATERIAL:				
	S type louvers = 5 Nos.+				
	Add 5% wastage = 0.25 Nos.				
	Total = 5.25 Nos				
0235	Fibre (high impact poly propylene reinforced) cement S type louvers	each	5.250	260.00	1365.00
9999	Carriage	L.S.	10.790	1.78	19.21
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	6.000	25.00	150.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	6.000	20.00	120.00
1208	Bitumen washer	100 Nos	18.000	30.00	5.40
1210	G.I. plain washer thin	100 Nos	36.000	32.00	11.52
9999	Carriage of bolts, nuts and washers	L.S.	2.730	1.78	4.86
9999	Sundries	L.S.	13.390	1.78	23.83
	LABOUR:				
0111	Carpenter 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
0102	Blacksmith 1 st class	day	0.120	435.00	52.20
	TOTAL				2516.02
	Add Water Charges @ 1%				25.16
	TOTAL				2541.18
	Add CPOH @ 15%				381.18
	Cost of 8.74 metre				2922.36
	Cost of 1 metre				334.37
	Say				334.35
12.14	Providing flat iron brackets 50x3 mm size with necessary bolts, nuts and washers etc. for fixing asbestos cement/G.S. sheets gutters with purlins.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 20 metres</i>				
	MATERIAL:				
	Flat 5 0x3 mm size				
1008	Flats up to 10 mm in thickness	quintal	0.1163	4200.00	488.46
1025	Mild steel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	38.000	30.00	114.00
1210	G.I. plain washer thin	100 Nos	19.000	32.00	6.08
9999	Sundries	L.S.	1.040	1.78	1.85
0102	Blacksmith 1 st class	day	0.380	435.00	165.30
0114	Beldar	day	0.380	329.00	125.02
	TOTAL				900.71
	Add Water Charges @ 1%				9.01
	TOTAL				909.72
	Add CPOH @ 15%				136.46
	Cost of 20 metre				1046.18
	Cost of 1 metre				52.31
	Say				52.30

12.15 Painting top of roofs with bitumen of approved quality @ 17 kg per 10 sqm impregnated with a coat of coarse sand at 60 cum per 10 sqm including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete:

12.15.1 With residual type petroleum bitumen of grade VG-10

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Bitumen 80/100				
0309	Paving bitumen of grade VG-10 of approved quality	tonne	0.017	50600.00	860.20
0771	Kerosene oil	litre	1.220	48.00	58.56
0370	Coal (steam)	quintal	0.035	400.00	14.00
2211	Carriage of tar / bitumen	tonne	0.017	94.65	1.61
0982	Coarse sand (zone III)	cum	0.060	1200.00	72.00
2203	Carriage of coarse sand	cum	0.060	106.49	6.39
	LABOUR:				
0114	Beldar (for cleaning the surface, applying kerosene oil, heating materials and carrying the hot tar over the roof)	day	0.380	329.00	125.02
0131	Painter	day	0.150	399.00	59.85
9999	Sundries (Brushes and T and P)	L.S.	13.520	1.78	24.07
	TOTAL				1221.70
	Add Water Charges @ 1%				12.22
	TOTAL				1233.92
	Add CPOH @ 15%				185.09
	Cost of 10 sqm				1419.01
	Cost of 1 sqm				141.90
	Say				141.90

12.16 10 cm thick (average) mud phuska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat:

12.16.1 With common burnt clay F.P.S. (non modular) brick tile of class designation 10

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Mud Phuska = 1.048 cum. + Wastage 20% = 0.209 = 1.257 cum				
0811	Mud (dry) Mud mortar for 25 mm thick plaster over phuska	cum	1.257	65.00	81.70
3.18	Rate as per Item Number 3.18 of SH: Mortars Bhusa 0.263x35 = 9.20 + 5% wastage = 0.46 = 9.66 kg Say 0.1 quintal	cum	0.263	403.30	106.07

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0308	Bhusa	quintal	0.100	500.00	50.00
9999	Cowdung	L.S.	5.330	1.78	9.49
9999	Mud mortar for gobri leaping	L.S.	8.060	1.78	14.35
9999	Carriage of bhusa and cowdung	L.S.	2.730	1.78	4.86
	Tile bricks 22.9x11.4x4.4cm of designation 100				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	380.000	5200.00	1976.00
2207	Carriage of brick tiles	1000 Nos	380.000	170.38	64.74
	Cement mortar for grouting 1:3 (1 cement 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.061	4468.35	272.57
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.006	35.00	0.21
9999	Sundries	L.S.	6.760	1.78	12.03
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.300	399.00	518.70
0114	Beldar	day	3.750	329.00	1233.75
0101	Bhisti	day	1.100	363.00	399.30
	TOTAL				4743.77
	Add Water Charges @ 1%				47.44
	TOTAL				4791.21
	Add CPOH @ 15%				718.68
	Cost of 10 sqm				5509.89
	Cost of 1 sqm				550.99
	Say				551.00

12.17 10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow-dung) and covered with machine moulded tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat.

12.17.1 with machine moulded common burnt clay F.P.S. (non modular) brick tiles of class designation - 12.50, conforming to IS - 2690

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 sqm				
	MATERIAL:				
	Mud Phuska = 1.048 cum.				
	Wastage 20% = 0.209				
	Total = 1.257 cum				
0811	Mud (dry)	cum	1.257	65.00	81.70
	Mud mortar for 25 mm thick plaster over phuska				
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.263	403.30	106.07
	Bhusa 0.263x35 = 9.20				
	5% wastage = 0.46= 9.66 kg.				
	Say = 0.10 quintal.				
0308	Bhusa	quintal	0.100	500.00	50.00
9999	Cowdung	L.S.	5.330	1.78	9.49
9999	Mud mortar for gobri leaping	L.S.	8.060	1.78	14.35

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of bhusa and cowdung	L.S.	2.730	1.78	4.86
7904	Machine moulded common burnt clay tile				
	bricks of class designation 12.5	1000 Nos	380.000	5250.00	1995.00
2207	Carriage of brick tiles	1000 Nos	380.000	170.38	64.74
	Cement mortar for grouting 1:3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.061	4468.35	272.57
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.006	35.00	0.21
9999	Sundries	L.S.	6.760	1.78	12.03
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.300	399.00	518.70
0114	Beldar	day	3.750	329.00	1233.75
0101	Bhisti	day	1.100	363.00	399.30
	TOTAL				4762.77
	Add Water Charges @ 1%				47.63
	TOTAL				4810.40
	Add CPOH @ 15%				721.56
	Cost of 10 sqm				5531.96
	Cost of 1 sqm				553.20
	Say				553.20
12.18 Extra for every additional 1 cm thickness of mud phaska.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	for 10 cm thickness.				
	Mud Phuska = 1.048 cum. +				
	Add wastage 20% = 0.209				
	Total = 1.257				
	Quantity for 1cm thickness $1.257/10=0.1257$				
	Say 0.13 cum				
0811	Mud (dry)	cum	0.130	65.00	8.45
0114	Beldar	day	0.070	329.00	23.03
0101	Bhisti	day	0.040	363.00	14.52
9999	Labour for leaping and carriage to roof	L.S.	26.910	1.78	47.90
	TOTAL				93.90
	Add Water Charges @ 1%				0.94
	TOTAL				94.84
	Add CPOH @ 15%				14.23
	Cost of 10 sqm				109.07
	Cost of 1 sqm				10.91
	Say				10.90

12.19	Providing and laying brick tiles over mummy roofs grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:				
12.19.1	With common burnt clay F.P.S. (non modular) brick tiles class designation 10				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	380.000	5200.00	1976.00
2207	Carriage of brick tiles	1000 Nos	380.000	170.38	64.74
	Cement mortar for grouting 1:3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.179	4468.35	799.83
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.005	35.00	0.18
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.810	399.00	323.19
0115	Coolie	day	1.080	329.00	355.32
0101	Bhisti	day	0.270	363.00	98.01
9999	Sundries	L.S.	1.820	1.78	3.24
	TOTAL				3620.51
	Add Water Charges @ 1%				36.21
	TOTAL				3656.72
	Add CPOH @ 15%				548.51
	Cost of 10 sqm				4205.23
	Cost of 1 sqm				420.52
	Say				420.50
12.20	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7266	Pressed clay tiles 20mm thick 250x250 mm size	1000 Nos	160.000	12150.00	1944.00
2207	Carriage of brick tiles	1000 Nos	160.000	170.38	27.26
	Cement mortar 1:4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.037	4172.05	154.37
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.010	35.00	0.35
	Cement mortar 1:4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.600	435.00	261.00
0114	Beldar	day	2.600	329.00	855.40

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.000	1.78	23.14
	TOTAL				4200.06
	Add Water Charges @ 1%				42.00
	TOTAL				4242.06
	Add CPOH @ 15%				636.31
	Cost of 10 sqm				4878.37
	Cost of 1 sqm				487.84
	Say				487.85
12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
12.21.1	In 75x75 mm deep chase				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metre</i>				
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0836	1175.00	98.23
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0836	106.49	8.90
0982	Coarse sand (zone III)	cum	0.0418	1200.00	50.16
2203	Carriage of coarse sand	cum	0.0418	106.49	4.45
0367	Portland Cement	tonne	0.030	6300.00	189.00
2209	Carriage of cement	tonne	0.030	94.65	2.84
0114	Beldar	day	0.085	329.00	27.97
0115	Coolie	day	0.056	329.00	18.42
0101	Bhisti	day	0.025	363.00	9.08
0123	Mason (brick layer) 1 st class	day	0.005	435.00	2.18
0124	Mason (brick layer) 2nd class	day	0.005	399.00	2.00
0128	Mate	day	0.0037	363.00	1.34
9999	Hire and running charge of mechanical mixer	L.S.	2.470	1.78	4.40
9999	Sundries	L.S.	1.300	1.78	2.31
0123	Mason (brick layer) 1 st class	day	0.150	435.00	65.25
0124	Mason (brick layer) 2nd class	day	0.150	399.00	59.85
9999	Sundries	L.S.	5.070	1.78	9.02
0123	Mason (brick layer) 1 st class	day	0.250	435.00	108.75
0124	Mason (brick layer) 2nd class	day	0.250	399.00	99.75
0114	Beldar	day	1.000	329.00	329.00
9999	Carriage	L.S.	8.060	1.78	14.35
	Cement mortar for grouting 1:3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.009	4468.35	40.22
0155	Mason (average)	day	0.081	417.00	33.78
0115	Coolie	day	0.101	329.00	33.23
0101	Bhisti	day	0.033	363.00	11.98
9999	Hire and running charge of mechanical mixer	L.S.	1.690	1.78	3.01
9999	Sundries	L.S.	1.430	1.78	2.55
	TOTAL				1232.02
	Add Water Charges @ 1%				12.32
	TOTAL				1244.34
	Add CPOH @ 15%				186.65
	Cost of 10 metre				1430.99
	Cost of 1 metre				143.10
	Say				143.10

12.22 Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 mx1 mx400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges, making and finishing the outlet complete.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0067	1175.00	7.87
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0022	1175.00	2.58
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0089	106.49	0.95
0982	Coarse sand (zone III)	cum	0.0044	1200.00	5.28
2203	Carriage of coarse sand	cum	0.0044	106.49	0.47
0367	Portland Cement	tonne	0.0032	6300.00	20.16
2209	Carriage of cement	tonne	0.0032	94.65	0.30
0114	Beldar	day	0.009	329.00	2.96
0115	Coolie	day	0.006	329.00	1.97
0101	Bhisti	day	0.003	363.00	0.98
0123	Mason (brick layer) 1 st class	day	0.001	435.00	0.22
0124	Mason (brick layer) 2nd class	day	0.001	399.00	0.20
0128	Mate	day	0.000	363.00	0.15
9999	Hire and running charge of mechanical mixer	L.S.	0.260	1.78	0.46
9999	Sundries	L.S.	0.130	1.78	0.23
3002	Polyvinyle chloride sheet 400 micron thick	sqm	1.000	40.00	40.00
	Cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.0041	5003.35	20.51
0155	Mason (average)	day	0.0235	417.00	9.80
0115	Coolie	day	0.0235	329.00	7.73
0101	Bhisti	day	0.0078	363.00	2.83
9999	Sundries	L.S.	0.0078	1.78	0.69
0367	Portland Cement	tonne	0.0006	6300.00	3.78
2209	Carriage of cement	tonne	0.0006	94.65	0.06
0155	Mason (average)	day	0.008	417.00	3.34
0115	Coolie	day	0.008	329.00	2.63
9999	Rounding of edges and making outlet	L.S.	0.260	1.78	0.46
9999	Sundries	L.S.	13.520	1.78	24.07
	TOTAL				160.68
	Add Water Charges @ 1%				1.61
	TOTAL				162.29
	Add CPOH @ 15%				24.34
	Cost of each				186.63
	Say				186.65

12.23 Providing sand stone slab for roofing and laying them in cement mortar 1:4 (1 cement : 4 coarse sand) over wooden karries or RCC battens or structural steel sections (Karries or battens or structural steel sections to be paid separately), including pointing the ceiling joints with cement mortar 1:3 (1 cement : 3 fine sand) complete:

12.23.1 Red sand stone slab

12.23.1.1 40 to 50 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1174	Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	11.000	175.00	1925.00
	including wastage @ 10% = 11 sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	1.270	94.65	120.21
	Cement mortar 1:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.0095	4172.05	39.63
	Cement mortar for grouting 1:3(1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.0075	4468.35	33.51
	LABOUR:				
0155	Mason (average)	day	1.520	417.00	633.84
0100	Bandhani	day	1.820	363.00	660.66
0115	Coolie	day	1.520	329.00	500.08
0101	Bhisti	day	0.300	363.00	108.90
9999	Sundries	L.S.	16.120	1.78	28.69
	TOTAL				4050.52
	Add Water Charges @ 1%				40.51
	TOTAL				4091.03
	Add CPOH @ 15%				613.65
	Cost of 10 sqm				4704.68
	Cost of 1 sqm				470.47
	Say				470.45

12.23.2 White sand stone slab

12.23.2.1 40 to 50 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1175	White sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	11.000	220.00	2420.00
	including wastage @ 10% = 11sqm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	1.270	94.65	120.21
	Cement mortar 1:4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.0095	4172.05	39.63
0155	Mason (average)	day	1.520	417.00	633.84
0100	Bandhani	day	1.820	363.00	660.66
0115	Coolie	day	1.520	329.00	500.08
0101	Bhisti	day	0.300	363.00	108.90
9999	Sundries	L.S.	16.120	1.78	28.69
	Cement mortar for grouting 1:3(1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.0075	4468.35	33.51
	TOTAL				4545.52
	Add Water Charges @ 1%				45.46
	TOTAL				4590.98
	Add CPOH @ 15%				688.65
	Cost of 10 sqm				5279.63
	Cost of 1 sqm				527.96
	Say				527.95

12.24 Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately):

12.24.1 Natural colour insulating board

12.24.1.1 12 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0332	Natural colour insulating board:12 mm thick including 10% wastage = 11.00 sqm	sqm	11.000	280.00	3080.00
9999	Carriage of material	L.S.	17.550	1.78	31.24
9999	Nails	L.S.	26.910	1.78	47.90
	LABOUR:				
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.000	329.00	658.00
9999	Scaffolding	L.S.	31.070	1.78	55.30
9999	Sundries	L.S.	31.070	1.78	55.30
	TOTAL				5015.24
	Add Water Charges @ 1%				50.15
	TOTAL				5065.39
	Add CPOH @ 15%				759.81
	Cost of 10 sqm				5825.20
	Cost of 1 sqm				582.52
	Say				582.50

12.24.2 White face insulating board

12.24.2.1 12 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0328	White face insulating board:12 mm thick including 10% wastage = 11.00 sqm	sqm	11.000	360.00	3960.00
9999	Carriage of material	L.S.	17.550	1.78	31.24
9999	Nails	L.S.	26.910	1.78	47.90
	LABOUR:				
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.000	329.00	658.00
9999	Scaffolding	L.S.	31.070	1.78	55.30
9999	Sundries	L.S.	31.070	1.78	55.30
	TOTAL				5895.24
	Add Water Charges @ 1%				58.95
	TOTAL				5954.19
	Add CPOH @ 15%				893.13
	Cost of 10 sqm				6847.32
	Cost of 1 sqm				684.73
	Say				684.75

12.24.3 Flame retardant face insulating board**12.24.3.1 12 mm thick**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0336	Flame retardant face insulating board: 12 mm thick	sqm	11.000	320.00	3520.00
	including 10% wastage = 11.00 sqm				
9999	Carriage of material	L.S.	17.550	1.78	31.24
9999	Nails	L.S.	26.910	1.78	47.90
	LABOUR:				
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.000	329.00	658.00
9999	Scaffolding	L.S.	31.070	1.78	55.30
9999	Sundries	L.S.	31.070	1.78	55.30
	TOTAL				5455.24
	Add Water Charges @ 1%				54.55
	TOTAL				5509.79
	Add CPOH @ 15%				826.47
	Cost of 10 sqm				6336.26
	Cost of 1 sqm				633.63
	Say				633.65

12.25 Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS : 3087 marked, in ceiling with necessary nails etc. complete (frame work to be paid separately) :

12.25.1 12 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	11.000	330.00	3630.00
	including 10% wastage = 11.00 sqm				
9999	Carriage	L.S.	14.950	1.78	26.61
9999	Nails	L.S.	26.910	1.78	47.90
	LABOUR:				
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.000	329.00	658.00
9999	Scaffolding	L.S.	31.070	1.78	55.30
9999	Sundries	L.S.	31.070	1.78	55.30
	TOTAL				5560.61
	Add Water Charges @ 1%				55.61
	TOTAL				5616.22
	Add CPOH @ 15%				842.43
	Cost of 10 sqm				6458.65
	Cost of 1 sqm				645.87
	Say				645.85

12.26 Providing and fixing plain Multipurpose Cement board (High Pressure steam cured) as per IS : 14862, with suitable screws for fibre cement board in ceiling etc. complete (frame work to be paid separately) :

12.26.1 6 mm thick cement board

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0236	Multi purpose fibre (high impact poly propylene reinforced) cement board 6 mm thick including 10% wastage = 11.00 sqm	sqm	11.000	210.00	2310.00
9999	Carriage	L.S.	14.950	1.78	26.61
9999	Nails	L.S.	26.910	1.78	47.90
	LABOUR:				
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.000	329.00	658.00
9999	Scaffolding	L.S.	31.070	1.78	55.30
9999	Sundries	L.S.	31.070	1.78	55.30
	TOTAL				4240.61
	Add Water Charges @ 1%				42.41
	TOTAL				4283.02
	Add CPOH @ 15%				642.45
	Cost of 10 sqm				4925.47
	Cost of 1 sqm				492.55
	Say				492.55

12.27 Extra for Circular cutting including wastages in ceiling with:

12.27.1 2nd class teak wood planks 20 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes of 0.5m dia each (15.71m)</i>				
	MATERIAL:				
	0.5 metre dia. each = 10x22/7x0.5=15.71m				
	Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm x 20 mm				
	= 0.043 cum = 43 cudm				
1190	Second class teak wood in planks	10 cudm	43.000	750.00	3225.00
2204	Carriage of timber	cum	0.043	121.70	5.23
0637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	31.000	52.00	16.12
	LABOUR:				
0111	Carpenter 1 st class	day	2.650	435.00	1152.75
0112	Carpenter 2nd class	day	0.145	399.00	57.86
0114	Beldar	day	2.790	329.00	917.91
9999	Scaffolding	L.S.	7.800	1.78	13.88
9999	Sundries	L.S.	14.690	1.78	26.15
	TOTAL				5414.90
	Add Water Charges @ 1%				54.15
	TOTAL				5469.05
	Add CPOH @ 15%				820.36
	Cost of 15.71 metre				6289.41
	Cost of 1 metre				400.34
	Say				400.35

12.27.2 Natural colour insulating board**12.27.2.1 12 mm thick**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0332	Natural colour insulating board:12 mm thick	sqm	2.150	280.00	602.00
9999	Carriage	L.S.	3.380	1.78	6.02
9999	Nails	L.S.	5.330	1.78	9.49
	LABOUR:				
0111	Carpenter 1 st class	day	0.490	435.00	213.15
0114	Beldar	day	0.390	329.00	128.31
9999	Scaffolding	L.S.	6.110	1.78	10.88
9999	Sundries	L.S.	6.110	1.78	10.88
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.500	329.00	822.50
9999	Scaffolding	L.S.	10.790	1.78	19.21
	TOTAL				2909.94
	Add Water Charges @ 1%				29.10
	TOTAL				2939.04
	Add CPOH @ 15%				440.86
	Cost of 15.71 metre				3379.90
	Cost of 1 metre				215.14
	Say				215.15

12.27.3 White face insulating board**12.27.3.1 12 mm thick**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0328	White face insulating board:12 mm thick	sqm	2.150	360.00	774.00
9999	Carriage	L.S.	3.380	1.78	6.02
9999	Nails	L.S.	5.330	1.78	9.49
	LABOUR:				
0111	Carpenter 1 st class	day	0.490	435.00	213.15
0114	Beldar	day	0.390	329.00	128.31
9999	Scaffolding	L.S.	6.110	1.78	10.88
9999	Sundries	L.S.	6.110	1.78	10.88
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.500	329.00	822.50
9999	Scaffolding	L.S.	10.790	1.78	19.21
	TOTAL				3081.94
	Add Water Charges @ 1%				30.82
	TOTAL				3112.76
	Add CPOH @ 15%				466.91
	Cost of 15.71 metre				3579.67
	Cost of 1 metre				227.86
	Say				227.85

12.27.4 Flame retardant face insulating board**12.27.4.1 12mm thick**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0336	Flame retardant face insulating board: 12 mm thick	sqm	2.150	320.00	688.00
9999	Carriage	L.S.	3.380	1.78	6.02
9999	Nails	L.S.	5.330	1.78	9.49
	LABOUR:				
0111	Carpenter 1 st class	day	0.490	435.00	213.15
0114	Beldar	day	0.390	329.00	128.31
9999	Scaffolding	L.S.	6.110	1.78	10.88
9999	Sundries	L.S.	6.110	1.78	10.88
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.500	329.00	822.50
9999	Scaffolding	L.S.	10.790	1.78	19.21
	TOTAL				2995.94
	Add Water Charges @ 1%				29.96
	Add CPOH @ 15%				453.88
	Cost of 15.71 metre				3479.78
	Cost of 1 metre				221.50
	Say				221.50

12.27.5 Standard quality hard board sheet**12.27.5.1 3 mm thick**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0994	Standard quality hard board sheet 3 mm thick	sqm	2.150	125.00	268.75
9999	Carriage	L.S.	2.730	1.78	4.86
9999	Nails	L.S.	5.330	1.78	9.49
	LABOUR:				
0111	Carpenter 1 st class	day	0.490	435.00	213.15
0114	Beldar	day	0.390	329.00	128.31
9999	Scaffolding	L.S.	6.110	1.78	10.88
9999	Sundries	L.S.	6.110	1.78	10.88
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.500	329.00	822.50
9999	Scaffolding	L.S.	10.790	1.78	19.21
	TOTAL				2575.53
	Add Water Charges @ 1%				25.76
	TOTAL				2601.29
	Add CPOH @ 15%				390.19
	Cost of 15.71 metre				2991.48
	Cost of 1 metre				190.42
	Say				190.40

12.27.5.2 4.5 mm thick					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = 10x22/7x0.5=15.71m				
	Area = 10x(22/7)/4x0.5x0.5 = 1.96sqm. +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0996	Standard quality hard board sheet 4.5 mm thick	sqm	2.150	150.00	322.50
9999	Carriage	L.S.	2.860	1.78	5.09
9999	Nails	L.S.	5.330	1.78	9.49
	LABOUR:				
0111	Carpenter 1 st class	day	0.490	435.00	213.15
0114	Beldar	day	0.390	329.00	128.31
9999	Scaffolding	L.S.	6.110	1.78	10.88
9999	Sundries	L.S.	6.110	1.78	10.88
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.500	329.00	822.50
9999	Scaffolding	L.S.	10.790	1.78	19.21
	TOTAL				2629.51
	Add Water Charges @ 1%				26.30
	TOTAL				2655.81
	Add CPOH @ 15%				398.37
	Cost of 15.71 metre				3054.18
	Cost of 1 metre				194.41
	Say				194.40
12.28 Extra for providing and fixing ceiling to curved surfaces in narrow widths.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0111	Carpenter 1 st class	day	1.000	435.00	435.00
0112	Carpenter 2nd class	day	1.000	399.00	399.00
0114	Beldar	day	2.000	329.00	658.00
	TOTAL				1492.00
	Add Water Charges @ 1%				14.92
	TOTAL				1506.92
	Add CPOH @ 15%				226.04
	Cost of 10 sqm				1732.96
	Cost of 1 sqm				173.30
	Say				173.30
12.29	Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087, finished with a coat of aluminium primer on both sides & edges, including two coats of synthetic enamel paint of approved quality on exposed face, fixed to a grid made out of anodised aluminium (with				

15 micron anodic coating) T-sections 35 x15x1.5 mm size main runners, cross runners 23.5x19x1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats and dash fastener. The suspenders shall be placed 600 x 1200 mm centre to centre including fixing to the frame with C.P brass screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately).

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm) Qty. including 10% wastage = 11.00 sqm. i.e. (11/0.36).= 30.56				
	Nos	each	30.560	120.00	3667.20
9999	Carriage of tiles	L.S.	14.820	1.78	26.38
9999	C.P.Brass screws	L.S.	26.910	1.78	47.90
	LABOUR:				
0111	Carpenter 1 st class	day	2.500	435.00	1087.50
0114	Beldar	day	2.000	329.00	658.00
9999	Scaffolding	L.S.	31.070	1.78	55.30
9999	Sundries	L.S.	31.070	1.78	55.30
	TOTAL				5597.58
	Add Water Charges @ 1%				55.98
	TOTAL				5653.56
	Add CPOH @ 15%				848.03
	Cost of 10 sqm				6501.59
	Cost of 1 sqm				650.16
	Say				650.15

12.30 Extra for providing 3 mm thick translucent white acrylic plastic sheets of approved quality in false ceiling instead of 12 mm thick plain or design particle board ceiling tiles.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Difference in cost of				
7385	3 mm thick translucent white acrylic plastic sheet	sqm	10.000	570.00	5700.00
7386	12 mm thick particle board ceiling tile	sqm	-10.000	260.00	-2600.00
	TOTAL				3100.00
	Add Water Charges @ 1%				31.00
	TOTAL				3131.00
	Add CPOH @ 15%				469.65
	Cost of 10 sqm				3600.65
	Cost of 1 sqm				360.07
	Say				360.05

12.31 Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately) :

12.31.1 Flat surfaces

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4.00x2.5=10sqm</i>				
	Wooden strips of 1 st class kail wood				
	72x40x0.25x0.06 = 43.20 cudm. +				
	Add 10% wastage = 4.32 cudm.				
	Total = 47.52 cudm				
1196	First class kail wood in planks	10 cudm	47.520	310.00	1473.12
2204	Carriage of timber	cum	0.0475	121.70	5.78
1219	Wire nails	kilogram	0.750	65.00	48.75
	required for fixing the laths to frame work				
	including breakage and wastage of nails				
	Rabbit wire mesh required for reinforcement				
	=2.5x4 = 10.00sqm.+				
	Add 2% wastage =0.20 sqm.				
	Total = 10.2 sqm				
1220	Wire mesh (rabbit)	sqm	10.200	45.00	459.00
	Plaster of paris -				
	2.5x4.0x10x1121/1000= 112.10 kg.				
	Add for plaster of paris joining into the side				
	of the laths-				
	2.5x4.0x4.0032x1121 = 44.87 kg.				
	= 156.97+Add 40% wastage = 62.79				
	Total = 219.76 kg				
0869	Plaster of Paris	kilogram	219.760	4.50	988.92
2308	Carriage of plaster of paris	tonne	0.220	94.65	20.82
9999	Carriage of wiremesh and nails etc.	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	1.600	435.00	696.00
0114	Beldar	day	1.600	329.00	526.40
	For doing plaster of paris over wooden strips.				
0122	Mason (for plaster of paris work) 1 st class	day	3.230	435.00	1405.05
0114	Beldar	day	3.230	329.00	1062.67
0101	Bhisti	day	0.540	363.00	196.02
9999	Scaffolding	L.S.	83.980	1.78	149.48
9999	Sundries	L.S.	53.820	1.78	95.80
	TOTAL				7132.67
	Add Water Charges @ 1%				71.33
	TOTAL				7204.00
	Add CPOH @ 15%				1080.60
	Cost of 10 sqm				8284.60
	Cost of 1 sqm				828.46
	Say				828.45

12.31.2 Curved surfaces					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4.00x2.5=10sqm</i>				
	MATERIAL:				
	Wooden strips of 1 st class kail wood				
	72x40x0.25x0.06 = 43.20 cudm. +				
	Add 10% wastage = 4.32 cudm.				
	Total = 47.52 cudm				
1196	First class kail wood in planks	10 cudm	47.520	310.00	1473.12
2204	Carriage of timber	cum	0.0475	121.70	5.78
1219	Wire nails	kilogram	0.750	65.00	48.75
	required for fixing the laths to frame work				
	including breakage and wastage of nails				
	Rabbit wire mesh required for reinforcement				
	=2.5x4 = 10.00sqm.+				
	Add 2%wastage =0.20 sqm.				
	Total = 10.2 sqm				
1220	Wire mesh (rabbit)	sqm	10.200	45.00	459.00
	Plaster of paris -				
	2.5x4.0x10x1121/1000= 112.10 kg.				
	Add for plaster of paris joining into the side				
	of the				
	laths-2.5x4.0x4.0032x1121 = 44.87 kg.				
	= 156.97+				
	Add 40% wastage = 62.79				
	Total = 219.76 kg				
0869	Plaster of Paris	kilogram	219.760	4.50	988.92
2308	Carriage of plaster of paris	tonne	0.220	94.65	20.82
9999	Carriage of wiremesh and nails etc.	L.S.	2.730	1.78	4.86
	LABOUR:				
0111	Carpenter 1 st class	day	1.600	435.00	696.00
0114	Beldar	day	1.600	329.00	526.40
0122	Mason (for plaster of paris work) 1 st class	day	3.230	435.00	1405.05
0114	Beldar	day	3.230	329.00	1062.67
0101	Bhisti	day	0.540	363.00	196.02
9999	Scaffolding	L.S.	83.980	1.78	149.48
9999	Sundries	L.S.	53.820	1.78	95.80
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0122	Mason (for plaster of paris work) 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.500	329.00	493.50
	TOTAL				8278.67
	Add Water Charges @ 1%				82.79
	TOTAL				8361.46
	Add CPOH @ 15%				1254.22
	Cost of 10 sqm				9615.68
	Cost of 1 sqm				961.57
	Say				961.55

12.32	Extra for sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
0869	Plaster of Paris	kilogram	109.880	4.50	494.46
2308	Carriage of plaster of paris	tonne	0.110	94.65	10.41
	LABOUR:				
0122	Mason (for plaster of paris work) 1 st class	day	2.000	435.00	870.00
0114	Beldar	day	2.000	329.00	658.00
0101	Bhisti	day	0.250	363.00	90.75
9999	Scaffolding and sundries	L.S.	13.520	1.78	24.07
	TOTAL				2147.69
	Add Water Charges @ 1%				21.48
	TOTAL				2169.17
	Add CPOH @ 15%				325.38
	Cost of 10 sqm				2494.55
	Cost of 1 sqm				249.46
	Say				249.45
12.33	Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres height from floor level.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm/metre height</i>				
9999	Scaffolding	L.S.	13.520	1.78	24.07
	LABOUR:				
0122	Mason (for plaster of paris work) 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	1.000	329.00	329.00
0101	Bhisti	day	0.250	363.00	90.75
	TOTAL				878.82
	Add Water Charges @ 1%				8.79
	TOTAL				887.61
	Add CPOH @ 15%				133.14
	Cost of 10 sqm per metre height				1020.75
	Cost of 1 sqm per metre height				102.08
	Say				102.10
12.34	Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183, density 24 kg/m3, 50 mm thick, wrapped in 200 G Virgin Polythene bags, fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5 mm x 24 gauge wire and mesh, for top most ceiling of building.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Area for 10.00sqm. (Finished surface) = 10.00sqm.				
	Add 10% for overlappings & wastage = 1.00sqm. Total = 11.00sqm				
7232	Resin Bonded Glass wool 24 kg/ m3: 50 mm thick	sqm	11.000	204.00	2244.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	104.000	1.78	185.12
9999	GI chicken mesh 12.5mm x 24 SWG	L.S.	351.000	1.78	624.78
	LABOUR:				
0111	Carpenter 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	2.000	329.00	658.00
	TOTAL				4146.90
	Add Water Charges @ 1%				41.47
	TOTAL				4188.37
	Add CPOH @ 15%				628.26
	Cost of 10 sqm				4816.63
	Cost of 1 sqm				481.66
	Say				481.65

12.35 Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183, density 16 kg/m3 , 50 mm thick, wrapped in 200 G Virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Area for 10.00sqm. (Finished surface) = 10.00sqm.+				
	Add 10% for overlappings & wastage = 1.00sqm.Total = 11.00sqm				
7231	Resin Bonded Glass wool 16 kg/ m3: 50 mm thick	sqm	11.000	145.00	1595.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	52.000	1.78	92.56
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
	TOTAL				2069.56
	Add Water Charges @ 1%				20.70
	TOTAL				2090.26
	Add CPOH @ 15%				313.54
	Cost of 10 sqm				2403.80
	Cost of 1 sqm				240.38
	Say				240.40

12.36 Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-Charge.

12.36.1 With Type N - Normal 50 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Cost of materials:				
	Expanded Polystyrene 1x10=10.00sqm. +				
	Add wastage 10%= 1.00sqm.				
	Total = 11.00sqm				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7090	Expanded polystyrene type N- Normal	sqm	11.000	140.00	1540.00
0314	Bitumen hot sealing compound : grade A	kilogram	0.250	28.00	7.00
9999	Sundries	L.S.	13.000	1.78	23.14
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
	TOTAL				1952.14
	Add Water Charges @ 1%				19.52
	TOTAL				1971.66
	Add CPOH @ 15%				295.75
	Cost of 10 sqm				2267.41
	Cost of 1 sqm				226.74
	Say				226.75

12.36.2 With Type SE - Self Extinguishing type 50 mm thick

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Expanded Polystyrene 1x10=10.00sqm. +				
	Add wastage 10%= 1.00sqm.				
	Total = 11.00sqm				
7091	Expanded polystyrene type - SE	sqm	11.000	170.00	1870.00
0314	Bitumen hot sealing compound : grade A	kilogram	0.250	28.00	7.00
9999	Sundries	L.S.	13.000	1.78	23.14
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
	TOTAL				2282.14
	Add Water Charges @ 1%				22.82
	TOTAL				2304.96
	Add CPOH @ 15%				345.74
	Cost of 10 sqm				2650.70
	Cost of 1 sqm				265.07
	Say				265.05

12.37 Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand).

12.37.1 Stone ware spout

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 stone ware spout of 60cm long</i>				
	MATERIAL:				
3004	Stone ware spouts 100 mm dia 60 cm long	each	10.000	40.00	400.00
9999	Carriage	L.S.	13.520	1.78	24.07
9999	Mortar	L.S.	13.520	1.78	24.07
	Labour for fixing and placing in position				
0124	Mason (brick layer) 2nd class	day	0.400	399.00	159.60
0114	Beldar	day	0.400	329.00	131.60
9999	Sundries	L.S.	5.330	1.78	9.49
	TOTAL				748.83
	Add Water Charges @ 1%				7.49
	TOTAL				756.32
	Add CPOH @ 15%				113.45
	Cost of 10 nos				869.77
	Cost of each				86.98
	Say				87.00

12.38 Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :
12.38.1 100 mm diameter

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 nos</i>				
	MATERIAL:				
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	5.000	20.00	100.00
	C.C. block 5x0.1x0.1x0.1 = 0.005 cum				
9999	Sundries	L.S.	7.150	1.78	12.73
9999	Carriage of bat clamps	L.S.	2.470	1.78	4.40
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	435.00	54.38
0124	Mason (brick layer) 2nd class	day	0.750	399.00	299.25
0114	Beldar	day	0.500	329.00	164.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0033	1175.00	3.88
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0011	1175.00	1.29
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0044	106.49	0.47
0982	Coarse sand (zone III)	cum	0.0022	1200.00	2.64
2203	Carriage of coarse sand	cum	0.0022	106.49	0.23
0367	Portland Cement	tonne	0.0016	6300.00	10.08
2209	Carriage of cement	tonne	0.0016	94.65	0.15
0114	Beldar	day	0.0045	329.00	1.48
0115	Coolie	day	0.0032	329.00	1.05
0101	Bhisti	day	0.0014	363.00	0.51
0123	Mason (brick layer) 1 st class	day	0.0003	435.00	0.13
0124	Mason (brick layer) 2nd class	day	0.0003	399.00	0.12
0128	Mate	day	0.0002	363.00	0.07
9999	Hire charges of machine etc.	L.S.	0.260	1.78	0.46
9999	Sundries	L.S.	0.130	1.78	0.23
9999	Sundries	L.S.	0.130	1.78	0.23
	TOTAL				658.28
	Add Water Charges @ 1%				6.58
	TOTAL				664.86
	Add CPOH @ 15%				99.73
	Cost of 5 nos				764.59
	Cost of each				152.92
	Say				152.90

12.38.2 150 mm diameter

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 nos</i>				
	MATERIAL:				
0886	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	5.000	30.00	150.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	C.C. block 5x0.1x0.1x0.1 = 0.005 cum				
9999	Carriage of bat clamps	L.S.	2.470	1.78	4.40
9999	Sundries	L.S.	7.150	1.78	12.73
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	435.00	54.38
0124	Mason (brick layer) 2nd class	day	0.750	399.00	299.25
0114	Beldar	day	0.500	329.00	164.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0033	1175.00	3.88
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0011	1175.00	1.29
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0044	106.49	0.47
0982	Coarse sand (zone III)	cum	0.0022	1200.00	2.64
2203	Carriage of coarse sand	cum	0.0022	106.49	0.23
0367	Portland Cement	tonne	0.0016	6300.00	10.08
2209	Carriage of cement	tonne	0.0016	94.65	0.15
0114	Beldar	day	0.0045	329.00	1.48
0115	Coolie	day	0.0032	329.00	1.05
0101	Bhisti	day	0.0014	363.00	0.51
0123	Mason (brick layer) 1 st class	day	0.0003	435.00	0.13
0124	Mason (brick layer) 2nd class	day	0.0003	399.00	0.12
0128	Mate	day	0.0002	363.00	0.07
9999	Hire charges of machine etc.	L.S.	0.260	1.78	0.46
9999	Sundries	L.S.	0.130	1.78	0.23
9999	Sundries	L.S.	0.130	1.78	0.23
	TOTAL				708.28
	Add Water Charges @ 1%				7.08
	TOTAL				715.36
	Add CPOH @ 15%				107.30
	Cost of 5 nos				822.66
	Cost of each				164.53
	Say				164.55

12.39 Providing lead caulked joints to sand cast iron rain water pipes and fittings:

12.39.1 100 mm dia pipe

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 joint</i>				
	MATERIAL:				
0865	Pig lead	kilogram	0.980	120.00	117.60
1001	Spun yarn	kilogram	0.110	40.00	4.40
9999	Kerosene oil fuel and sundries	L.S.	13.520	1.78	24.07
9999	Carriage of material	L.S.	1.430	1.78	2.55
	LABOUR:				
0116	Fitter (grade 1)	day	0.060	435.00	26.10
0117	Assistant Fitter or 2nd class Fitter	day	0.060	399.00	23.94
0114	Beldar	day	0.120	329.00	39.48
	TOTAL				238.14
	Add Water Charges @ 1%				2.38
	TOTAL				240.52
	Add CPOH @ 15%				36.08
	Cost of each				276.60
	Say				276.60

12.39.2 150 mm dia pipe

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 joint</i>				
	MATERIAL:				
0865	Pig lead	kilogram	1.480	120.00	177.60
1001	Spun yarn	kilogram	0.170	40.00	6.80
9999	Kerosene oil fuel and sundries	L.S.	13.520	1.78	24.07
9999	Carriage of material	L.S.	2.730	1.78	4.86
	LABOUR:				
0116	Fitter (grade 1)	day	0.080	435.00	34.80
0117	Assistant Fitter or 2nd class Fitter	day	0.080	399.00	31.92
0114	Beldar	day	0.150	329.00	49.35
	TOTAL				329.40
	Add Water Charges @ 1%				3.29
	TOTAL				332.69
	Add CPOH @ 15%				49.90
	Cost of each				382.59
	Say				382.60

12.40 Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately).

12.40.1 Sand cast iron plain shoes**12.40.1.1 150 mm diameter**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 shoe</i>				
0966	Sand Cast iron plain shoe 150 mm dia	each	1.000	310.00	310.00
9999	Carriage, fixing and mortar	L.S.	17.550	1.78	31.24
	TOTAL				341.24
	Add Water Charges @ 1%				3.41
	TOTAL				344.65
	Add CPOH @ 15%				51.70
	Cost of each				396.35
	Say				396.35

12.41 Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.

12.41.1 75 mm diameter

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6 metre</i>				
7188	uPVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 75 mm dia	metre	6.000	72.00	432.00
7190	uPVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 75 mm dia	each	1.000	18.00	18.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of material	L.S.	13.520	1.78	24.07
9999	Adhesive, and sundries etc.	L.S.	6.760	1.78	12.03
	LABOUR:				
0116	Fitter (grade 1)	day	0.190	435.00	82.65
0114	Beldar	day	0.370	329.00	121.73
0100	Bandhani	day	0.080	363.00	29.04
9999	Scaffolding	L.S.	18.590	1.78	33.09
	TOTAL				752.61
	Add Water Charges @ 1%				7.53
	TOTAL				760.14
	Add CPOH @ 15%				114.02
	Cost of 6 metre				874.16
	Cost of 1 metre				145.69
	Say				145.70

12.41.2 110 mm diameter

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6 metre</i>				
7189	uPVC pipes (working pressure 4 kg / cm 2)				
	Single socketed pipe 110 mm dia	metre	6.000	135.00	810.00
7191	uPVC pipes (working pressure 4 kg / cm 2)				
	Rubber (Seal) Ring 110 mm dia	each	1.000	20.00	20.00
9999	Carriage of material	L.S.	17.550	1.78	31.24
9999	Adhesive, and sundries etc.	L.S.	8.060	1.78	14.35
	LABOUR:				
0116	Fitter (grade 1)	day	0.230	435.00	100.05
0114	Beldar	day	0.450	329.00	148.05
0100	Bandhani	day	0.110	363.00	39.93
9999	Scaffolding	L.S.	18.590	1.78	33.09
	TOTAL				1196.71
	Add Water Charges @ 1%				11.97
	TOTAL				1208.68
	Add CPOH @ 15%				181.30
	Cost of 6 metre				1389.98
	Cost of 1 metre				231.66
	Say				231.65

12.42 Providing and fixing on wall face unplasticised-PVC moulded fittings / accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.

12.42.1 Coupler

12.42.1.1 75 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1coupler</i>				
7192	UPVC coupler for UPVC drainage pipes				
	75 mm	each	1.000	36.00	36.00
7190	uPVC pipes (working pressure 4 kg / cm 2)				
	Rubber (Seal) Ring 75 mm dia	each	2.000	18.00	36.00
9999	Adhesive, and sundries etc.	L.S.	2.730	1.78	4.86
	LABOUR:				
9999	Carriage and fixing charges.	L.S.	9.360	1.78	16.66
	TOTAL				93.52
	Add Water Charges @ 1%				0.94
	TOTAL				94.46
	Add CPOH @ 15%				14.17
	Cost of each				108.63
	Say				108.65

12.42.1.2 110 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 coupler</i>				
7193	UPVC coupler for UPVC drainage pipes 110 mm	each	1.000	55.00	55.00
7191	uPVC pipes (working pressure 4 kg / cm 2)				
	Rubber (Seal) Ring 110 mm dia	each	2.000	20.00	40.00
9999	Adhesive, and sundries etc.	L.S.	2.730	1.78	4.86
9999	Carriage and fixing charges.	L.S.	10.790	1.78	19.21
	TOTAL				119.07
	Add Water Charges @ 1%				1.19
	TOTAL				120.26
	Add CPOH @ 15%				18.04
	Cost of each				138.30
	Say				138.30
12.42.2.1 75 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 coupler</i>				
7194	UPVC pushfit coupler (single) 75 mm thick	each	1.000	52.00	52.00
7190	uPVC pipes (working pressure 4 kg / cm 2)				
	Rubber (Seal) Ring 75 mm dia	each	2.000	18.00	36.00
9999	Adhesive, and sundries etc.	L.S.	2.730	1.78	4.86
9999	Carriage and fixing charges.	L.S.	9.360	1.78	16.66
	TOTAL				109.52
	Add Water Charges @ 1%				1.10
	TOTAL				110.62
	Add CPOH @ 15%				16.59
	Cost of each				127.21
	Say				127.20
12.42.2.2 110 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 coupler</i>				
7195	UPVC pushfit coupler (single) 110 mm thick	each	1.000	85.00	85.00
7191	uPVC pipes (working pressure 4 kg / cm 2)				
	Rubber (Seal) Ring 110 mm dia	each	2.000	20.00	40.00
9999	Adhesive, and sundries etc.	L.S.	2.730	1.78	4.86
9999	Carriage and fixing charges.	L.S.	10.790	1.78	19.21
	TOTAL				149.07
	Add Water Charges @ 1%				1.49
	TOTAL				150.56
	Add CPOH @ 15%				22.58
	Cost of each				173.14
	Say				173.15

12.42.3 Single tee with door**12.42.3.1 75x75x75 mm**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 tee</i>				
7198	UPVC single equal Tee (with door) 75x75x75 mm	each	1.000	118.00	118.00
7190	uPVC pipes (working pressure 4 kg / cm 2)				
	Rubber (Seal) Ring 75 mm dia	each	3.000	18.00	54.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	10.760	1.78	19.15
	TOTAL				191.15
	Add Water Charges @ 1%				1.91
	TOTAL				193.06
	Add CPOH @ 15%				28.96
	Cost of each				222.02
	Say				222.00

12.42.3 Single tee with door**12.42.3.2 110x110x110 mm**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 tee</i>				
	MATERIAL:				
7199	UPVC single equal Tee (with door) 110x110 x110 mm	each	1.000	180.00	180.00
7191	uPVC pipes (working pressure 4 kg / cm 2)				
	Rubber (Seal) Ring 110 mm dia	each	3.000	20.00	60.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	13.470	1.78	23.98
	TOTAL				263.98
	Add Water Charges @ 1%				2.64
	TOTAL				266.62
	Add CPOH @ 15%				39.99
	Cost of each				306.61
	Say				306.60

12.42.4 Single tee without door**12.42.4.1 75x75x75 mm**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 tee</i>				
	MATERIAL:				
7196	UPVC single equal Tee (without door) 75x75x75 mm	each	1.000	95.00	95.00
7190	uPVC pipes (working pressure 4 kg / cm 2)				
	Rubber (Seal) Ring 75 mm dia	each	3.000	18.00	54.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	10.760	1.78	19.15
	TOTAL				168.15
	Add Water Charges @ 1%				1.68
	TOTAL				169.83
	Add CPOH @ 15%				25.47
	Cost of each				195.30
	Say				195.30

12.42.4.2 110x110x110 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 tee</i>				
	MATERIAL:				
7197	UPVC single equal Tee (without door) 110x110x110 mm	each	1.000	130.00	130.00
7191	uPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 110 mm dia	each	3.000	20.00	60.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	13.470	1.78	23.98
	TOTAL				213.98
	Add Water Charges @ 1%				2.14
	TOTAL				216.12
	Add CPOH @ 15%				32.42
	Cost of each				248.54
	Say				248.55
12.42.5 Bend 87.5°					
12.42.5.1 75 mm bend					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 coupler</i>				
7208	uPVC bend 87.5° 75 mm bend	each	1.000	58.00	58.00
7190	uPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 75 mm dia	each	1.000	18.00	18.00
9999	Adesive and sundries etc.	L.S.	2.730	1.78	4.86
9999	Carriage and fixing charges.	L.S.	9.360	1.78	16.66
	TOTAL				97.52
	Add Water Charges @ 1%				0.98
	TOTAL				98.50
	Add CPOH @ 15%				14.77
	Cost of each				113.27
	Say				113.25
12.42.5 Bend 87.5°					
12.42.5.2 110 mm bend					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 bend</i>				
7209	uPVC bend 87.5° 110 mm bend	each	1.000	95.00	95.00
7191	uPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 110 mm dia	each	1.000	20.00	20.00
9999	Adhesive, and sundries etc.	L.S.	2.730	1.78	4.86
9999	Carriage and fixing charges.	L.S.	10.790	1.78	19.21
	TOTAL				139.07
	Add Water Charges @ 1%				1.39
	TOTAL				140.46
	Add CPOH @ 15%				21.07
	Cost of each				161.53
	Say				161.55

12.42.6 Shoe (Plain)**12.42.6.1 75 mm Shoe**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 shoe</i>				
7212	UPVC plain shoe 75 mm bend	each	1.000	105.00	105.00
7190	uPVC pipes (working pressure 4 kg / cm 2)				
	Rubber (Seal) Ring 75 mm dia	each	1.000	18.00	18.00
9999	Adhesive, and sundries etc.	L.S.	2.730	1.78	4.86
9999	Carriage and fixing charges.	L.S.	9.360	1.78	16.66
	TOTAL				144.52
	Add Water Charges @ 1%				1.45
	TOTAL				145.97
	Add CPOH @ 15%				21.90
	Cost of each				167.87
	Say				167.85

12.42.6.2 110 mm Shoe

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 shoe</i>				
7213	UPVC plain shoe 110 mm bend	each	1.000	210.00	210.00
7191	uPVC pipes (working pressure 4 kg / cm 2)				
	Rubber (Seal) Ring 110 mm dia	each	1.000	20.00	20.00
9999	Adhesive and sundries etc.	L.S.	2.730	1.78	4.86
9999	Carriage and fixing charges.	L.S.	10.790	1.78	19.21
	TOTAL				254.07
	Add Water Charges @ 1%				2.54
	TOTAL				256.61
	Add CPOH @ 15%				38.49
	Cost of each				295.10
	Say				295.10

12.43 Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.

12.43.1 75 mm

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 nos</i>				
	MATERIAL:				
7214	UPVC pipe clip 75 mm bend	each	5.000	16.00	80.00
9999	Carriage of U-PVC pipe clips	L.S.	2.470	1.78	4.40
0870	Plug	each	10.000	12.00	120.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	435.00	54.38
0124	Mason (brick layer) 2nd class	day	0.750	399.00	299.25
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries	L.S.	7.150	1.78	12.73
9999	Sundries	L.S.	0.910	1.78	1.62
9999	Sundries cement mortar 1:4 (1 Cement: 4 Coarse sand)	L.S.	3.900	1.78	6.94
	TOTAL				743.82
	Add Water Charges @ 1%				7.44
	TOTAL				751.26
	Add CPOH @ 15%				112.69
	Cost of 5 nos				863.95
	Cost of each				172.79
	Say				172.80

12.43.2 110 mm					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 nos</i>				
	MATERIAL:				
7215	UPVC pipe clip 110 mm bend	each	5.000	30.00	150.00
9999	Carriage of U-PVC pipe clips	L.S.	2.470	1.78	4.40
0870	Plug	each	10.000	12.00	120.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	435.00	54.38
0124	Mason (brick layer) 2nd class	day	0.750	399.00	299.25
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries	L.S.	7.150	1.78	12.73
9999	Sundries	L.S.	0.910	1.78	1.62
9999	Sundries cement mortar 1:4 (1 Cement: 4 Coarse sand)	L.S.	3.900	1.78	6.94
	TOTAL				813.82
	Add Water Charges @ 1%				8.14
	TOTAL				821.96
	Add CPOH @ 15%				123.29
	Cost of 5 nos				945.25
	Cost of each				189.05
	Say				189.05
12.44 Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 grating</i>				
7187	C.I. grating 150 mm dia, weighing not less than 440 gm	each	1.000	28.00	28.00
9999	Carriage of material and fixing charges.	L.S.	4.160	1.78	7.40
	TOTAL				35.40
	Add Water Charges @ 1%				0.35
	TOTAL				35.75
	Add CPOH @ 15%				5.36
	Cost of each				41.11
	Say				41.10
12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with				

recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :

12.45.1 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.8x9.6m = 103.68sqm</i>				
	MATERIAL: Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm.				
	Total = 108.86 sqm				
7009	12.5 mm thick tapered edge gypsum plain board	sqm	108.860	160.00	17417.60
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	238.140	72.00	17146.08
7011	Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm)	metre	41.840	43.00	1799.12
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.720	72.00	6531.84
	Strap hanger				
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	10.800	23.00	248.40
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.000	4.50	850.50
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216.000	25.00	540.00
7015	Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)	each	72.000	3.50	252.00
7020	All drive screws (for gypsum board)	100 Nos	1000.000	60.00	600.00
7016	Joint filler	kilogram	22.810	27.00	615.87
7017	Joint finisher	kilogram	34.210	24.00	821.04
7018	Joint tape roll	roll	1.270	135.00	171.45
7021	Primer (for gypsum board)	litre	18.660	73.00	1362.18
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
	12 mm dia 40 mm long with 6 mm dia bolt				
9999	Sundries like rawl plug scaffolding etc.	L.S.	807.300	1.78	1436.99
9999	Carriage of material etc.	L.S.	447.200	1.78	796.02
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	399.00	12410.50
0114	Beldar	day	31.104	329.00	10233.22
0131	Painter	day	10.368	399.00	4136.83
	TOTAL				80969.64
	Add Water Charges @ 1%				809.70
	TOTAL				81779.34
	Add CPOH @ 15%				12266.90
	Cost of 103.68 sqm				94046.24
	Cost of 1 sqm				907.08
	Say				907.10

12.45.2 12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 103.68 sqm</i>				
	Details cost for 103.68 sqm				
	MATERIAL:				
	Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm.				
	Total = 108.86 sqm				
7030	12.5 mm thick tapered edge gypsum fire resistant board	sqm	108.860	255.00	27759.30
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	238.140	72.00	17146.08
7011	Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm)	metre	41.840	43.00	1799.12
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.720	72.00	6531.84
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	10.800	23.00	248.40
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.000	4.50	850.50
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216.000	25.00	540.00
7015	Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)	each	72.000	3.50	252.00
7020	All drive screws (for gypsum board)	100 Nos	1000.000	60.00	600.00
7016	Joint filler	kilogram	22.810	27.00	615.87
7017	Joint finisher	kilogram	34.210	24.00	821.04
7018	Joint tape roll	roll	1.270	135.00	171.45
7021	Primer (for gypsum board)	litre	18.660	73.00	1362.18
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
9999	Sundries like rawl plug scaffolding etc.	L.S.	807.300	1.78	1436.99
9999	Carriage of material etc.	L.S.	447.200	1.78	796.02
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	399.00	12410.50
0114	Beldar	day	31.104	329.00	10233.22
0131	Painter	day	10.370	399.00	4137.63
	TOTAL				91312.14
	Add Water Charges @ 1%				913.12
	TOTAL				92225.26
	Add CPOH @ 15%				13833.79
	Cost of 103.68 sqm				106059.05
	Cost of 1 sqm				1022.95
	Say				1022.95

12.45.3 12.5 mm thick tapered edge gypsum moisture resistant board					
Code No	Description	Unit	Quantity	Rate	Amount
	<i>Details of cost for 103.68 sqm</i>				
	MATERIAL :				
	Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm.				
	Total = 108.86 sqm				
7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	108.860	285.00	31025.10
7010	Galvanised Steel ceiling section (size 80x 26x0.50 mm)	metre	238.140	72.00	17146.08
7011	Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm)	metre	41.840	43.00	1799.12
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.720	72.00	6531.84
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	10.800	23.00	248.40
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.000	4.50	850.50
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216.000	25.00	540.00
7015	Galvanised Steel soffit cleat (Size 27x37x 25x0.60 mm)	each	72.000	3.50	252.00
7020	All drive screws (for gypsum board)	100 Nos	1000.000	60.00	600.00
7016	Joint filler	kilogram	22.810	27.00	615.87
7017	Joint finisher	kilogram	34.210	24.00	821.04
7018	Joint tape roll	roll	1.270	135.00	171.45
7021	Primer (for gypsum board)	litre	18.660	73.00	1362.18
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
9999	Sundries like rawl plugs, scaffolding etc.	L.S.	807.300	1.78	1436.99
9999	Carriage of material etc.	L.S.	447.200	1.78	796.02
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	399.00	12410.50
0114	Beldar	day	31.104	329.00	10233.22
0131	Painter	day	10.368	399.00	4136.83
	TOTAL				94577.14
	Add Water Charges @ 1%				945.77
	TOTAL				95522.91
	Add CPOH @ 15%				14328.44
	Cost of 103.68 sqm				109851.35
	Cost of 1 sqm				1059.52
	Say				1059.50
12.45.4 Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer-in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60.					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 103.68 sqm</i>				
	MATERIAL:				
	Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm.Total = 108.86 sqm				
7028	12.5 mm thick Fully Perforated gypsum board	sqm	108.860	430.00	46809.80

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	238.140	72.00	17146.08
7011	Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm)	metre	41.840	43.00	1799.12
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.720	72.00	6531.84
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	10.800	23.00	248.40
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.000	4.50	850.50
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216.000	25.00	540.00
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	72.000	3.50	252.00
7020	All drive screws (for gypsum board)	100 Nos	1000.000	60.00	600.00
7016	Joint filler	kilogram	22.810	27.00	615.87
7017	Joint finisher	kilogram	34.210	24.00	821.04
7018	Joint tape roll	roll	1.270	135.00	171.45
7021	Primer (for gypsum board)	litre	18.660	73.00	1362.18
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
9999	Sundries like rawl plugs, scaffolding etc.	L.S.	807.300	1.78	1436.99
9999	Carriage of material etc.	L.S.	447.200	1.78	796.02
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	399.00	12410.50
0114	Beldar	day	31.104	329.00	10233.22
0131	Painter	day	10.368	399.00	4136.83
	TOTAL				110361.84
	Add Water Charges @ 1%				1103.62
	TOTAL				111465.46
	Add CPOH @ 15%				16719.82
	Cost of 103.68 sqm				128185.28
	Cost of 1 sqm				1236.35
	Say				1236.35

12.46 Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8mm and weighing not less than 100 gms.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 grating</i>				
	MATERIAL:				
7857	P.T.M.T. Grating square slit 150 mm	each	1.000	77.00	77.00
9999	Carriage of material and fixing charges.	L.S.	4.160	1.78	7.40
	TOTAL				84.40
	Add Water Charges @ 1%				0.84
	TOTAL				85.24
	Add CPOH @ 15%				12.79
	Cost of each				98.03
	Say				98.05

12.47 Providing & fixing UV stabilised fibre glass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8 mm dia G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approxirnately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.

12.47.1 2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for area of roof 2x18.09x5.1 = 184.518 sqm</i>				
	MATERIAL:				
8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	240.408	540.00	129820.32
9999	Carriage of sheet	L.S.	104.000	1.78	185.12
	G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1 metre No. of bolts in one lap $5.1/0.3 = 17$ Nos $2 \times 26(\text{laps}) \times 17 \text{ Nos.} = 884 \text{ Nos}$				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots G.I.,J or L hooks 8mm dia. (No. of purlins to be used 5 on either side) $2 \times 5 \times 27$ (No. of sheets) $\times 23$ Nos. of bolts in each sheet = 810 Nos	10 Nos	884.000	25.00	2210.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	810.000	120.00	9720.00
1207	G.I. Limpet washer (total of seam and J bolts) $884 + 810 = 1694$	100 nos	1694.000	35.00	592.90
1208	Bitumen washer	100 Nos	1694.000	30.00	508.20
9999	Carriage of bolts and washers	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	53.820	1.78	95.80
	LABOUR:				
0130	Mistry	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	15.500	399.00	6184.50
0114	Beldar	day	15.500	329.00	5099.50
	TOTAL				155029.74
	Add Water Charges @ 1%				1550.30
	TOTAL				156580.04
	Add CPOH @ 15%				23487.01
	Cost of 184.518 sqm				180067.05
	Cost of 1 sqm				975.88
	Say				975.90

12.47.2 2 mm thick flat					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for area of roof 2x18.09x5.1 = 184.518 sqm</i>				
	MATERIAL:				
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	240.408	470.00	112991.76
9999	Carriage of sheet	L.S.	104.000	1.78	185.12
	G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1 metre No. of bolts in one lap 5.1/0.3 =17 Nos. 2x26(laps)x17 Nos. = 884 Nos				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots G.I.,J or L hooks 8mm dia. (No. of purlins to be used 5 on either side) 2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 Nos	884.000	25.00	2210.00
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	810.000	120.00	9720.00
1207	G.I. Limpet washer (total of seam and J bolts)884+810= 1694	100 nos	1694.000	35.00	592.90
1208	Bitumen washer	100 Nos	1694.000	30.00	508.20
9999	Carriage of bolts and washers	L.S.	26.910	1.78	47.90
9999	Sundries	L.S.	53.820	1.78	95.80
	LABOUR:				
0130	Mistry	day	1.300	435.00	565.50
0112	Carpenter 2nd class	day	15.500	399.00	6184.50
0114	Beldar	day	15.500	329.00	5099.50
	TOTAL				138201.18
	Add Water Charges @ 1%				1382.01
	TOTAL				139583.19
	Add CPOH @ 15%				20937.48
	Cost of 184.518 sqm				160520.67
	Cost of 1 sqm				869.95
	Say				869.95
12.48 Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately).					
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
8670	Mangalore tiles 20 mm thick	each	160.000	12.00	1920.00
2207	Carriage of brick tiles	1000 Nos	160.000	170.38	27.26
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.300	435.00	130.50
0114	Beldar	day	1.560	329.00	513.24
9999	Sundries	L.S.	13.000	1.78	23.14
	TOTAL				2614.14
	Add Water Charges @ 1%				26.14
	TOTAL				2640.28
	Add CPOH @ 15%				396.04
	Cost of 10 sqm				3036.32
	Cost of 1 sqm				303.63
	Say				303.65

12.49	Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20 mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately).				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3.60 sqm</i>				
8669	Mangalore ridge tiles 20 mm thick	each	12.000	30.00	360.00
2207	Carriage of brick tiles	1000 Nos	12.000	170.38	2.04
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.010	435.00	4.35
0114	Beldar	day	0.150	329.00	49.35
9999	Sundries	L.S.	2.600	1.78	4.63
	TOTAL				420.37
	Add Water Charges @ 1%				4.20
	TOTAL				424.57
	Add CPOH @ 15%				63.69
	Cost of 3.6 sqm				488.26
	Cost of 1 sqm				135.63
	Say				135.65
12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %), total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 216.14 sqm</i>				
	Consider a shed of 20x10 metres.				
	(External dimensions of plinth).				
	Area of roof-				
	20.2x10.70m = 216.14 sqm.				
	MATERIAL:				
	Sheets used = 20 Nosx10.70mx1.06m =				
	226.84sqm				
	Add 3% wastage = 6.81				
	Total = 233.65sqm				
8671	Precoated galvanised iron profile sheet				
	0.50 mm TCT	sqm	233.650	435.00	101637.75
9999	Carriage of sheets	L.S.	104.000	1.78	185.12
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	476.000	120.00	5712.00
1208	Bitumen washer	100 Nos	476.000	30.00	142.80
1209	G.I. plain washer thick	100 Nos	476.000	35.00	166.60
9999	Carriage of bolts and nuts, washers etc.	L.S.	8.060	1.78	14.35
9999	Sundries	L.S.	39.520	1.78	70.35

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0130	Mistry	day	2.340	435.00	1017.90
0112	Carpenter 2nd class	day	9.340	399.00	3726.66
0114	Beldar	day	9.340	329.00	3072.86
	TOTAL				115746.39
	Add Water Charges @ 1%				1157.46
	TOTAL				116903.85
	Add CPOH @ 15%				17535.58
	Cost of 216.14 sqm				134439.43
	Cost of 1 sqm				622.00
	Say				622.00

12.51 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :

12.51.1 Ridges plain (500 - 600 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 20.20 metre</i>				
	MATERIAL:				
	One piece plain ridges				
	Consider a shed of 20x10m (external dimensions at plinth).				
	Length of ridges 20.2 metre + 5% wastage = 23.11 metre				
8672	Precoated galvanised steel plain ridges	metre	23.110	440.00	10168.40
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.520	1.78	24.07
9999	Sundries	L.S.	6.760	1.78	12.03
	LABOUR:				
0130	Mistry	day	0.140	435.00	60.90
0112	Carpenter 2nd class	day	0.550	399.00	219.45
0114	Beldar	day	1.640	329.00	539.56
	TOTAL				11024.41
	Add Water Charges @ 1%				110.24
	TOTAL				11134.65
	Add CPOH @ 15%				1670.20
	Cost of 20.2 metre				12804.85
	Cost of 1 metre				633.90
	Say				633.90

12.51.2 Flashings / Aprons (Upto 600 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 20.20 metres completed length</i>				
	MATERIAL:				
8673	Precoated galvanised steel flashings/aprons	metre	23.110	440.00	10168.40
	20.20 + 5% wastage = 23.11 metre				
9999	Carriage of apron pieces. (The apron pieces are to be fixed with the same hooks as the sheets)	L.S.	3.250	1.78	5.78
9999	Sundries	L.S.	3.250	1.78	5.78

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0130	Mistry	day	0.070	435.00	30.45
0112	Carpenter 2nd class	day	0.280	399.00	111.72
0114	Beldar	day	0.820	329.00	269.78
	TOTAL				10591.91
	Add Water Charges @ 1%				105.92
	TOTAL				10697.83
	Add CPOH @ 15%				1604.67
	Cost of 20.2 metre				12302.50
	Cost of 1 metre				609.03
	Say				609.05

12.51.3 North light curves

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 20.20 metres long completed length</i>				
	MATERIAL:				
8675	Precoated galvanised steel north light curves 20.20 + 5% wastage = 23.11 metre	metre	23.110	455.00	10515.05
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	40.000	120.00	480.00
1209	G.I. plain washer thick	100 Nos	40.000	35.00	14.00
1208	Bitumen washer	100 Nos	40.000	30.00	12.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.880	1.78	17.59
9999	Sundries	L.S.	6.240	1.78	11.11
	LABOUR:				
0130	Mistry	day	0.100	435.00	43.50
0112	Carpenter 2nd class	day	0.300	399.00	119.70
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				11541.95
	Add Water Charges @ 1%				115.42
	TOTAL				11657.37
	Add CPOH @ 15%				1748.61
	Cost of 20.2 metre				13405.98
	Cost of 1 metre				663.66
	Say				663.65

12.51.4 Barge board (Upto 300 mm)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 8.23 metre</i>				
	MATERIAL:				
	Completed length of barge boards = 8.23 + 5% wastage = 8.64 metre				
8676	Precoated galvanised steel barge board	metre	8.640	450.00	3888.00
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	5.000	40.00	20.00
1211	G.I. plain washer for seam bolts	100 Nos	10.000	30.00	3.00
1208	Bitumen washer	100 Nos	5.000	30.00	1.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of barge boards, bolts, nus and washers	L.S.	9.360	1.78	16.66
9999	Sundries	L.S.	6.760	1.78	12.03
	LABOUR:				
0130	Mistry	day	0.040	435.00	17.40
0112	Carpenter 2nd class	day	0.060	399.00	23.94
0114	Beldar	day	0.400	329.00	131.60
	TOTAL				4114.13
	Add Water Charges @ 1%				41.14
	TOTAL				4155.27
	Add CPOH @ 15%				623.29
	Cost of 8.23 metre				4778.56
	Cost of 1 metre				580.63
	Say				580.65

12.51.5 Crimp curve

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for crimp curve 20.2 metres long Area 20.20 x 1.06 =21.412 sqm</i>				
	MATERIAL:				
8677	Precoated galvanised steel crimp curve	sqm	22.483	475.00	10679.42
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	40.000	120.00	480.00
1209	G.I. plain washer thick	100 Nos	40.000	35.00	14.00
1208	Bitumen washer	100 Nos	40.000	30.00	12.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.880	1.78	17.59
9999	Sundries	L.S.	6.240	1.78	11.11
	LABOUR:				
0130	Mistry	day	0.100	435.00	43.50
0112	Carpenter 2nd class	day	0.300	399.00	119.70
0114	Beldar	day	1.000	329.00	329.00
	TOTAL				11706.32
	Add Water Charges @ 1%				117.06
	TOTAL				11823.38
	Add CPOH @ 15%				1773.51
	Cost of 21.412 sqm				13596.89
	Cost of 1 sqm				635.01
	Say				635.00

12.51.6 Gutter (600 mm over all girth)

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metre</i>				
	MATERIAL:				
	0.63mm thick with zinc coating not less than 275gm/sqmConsider a length of 10.00m				
	Sheet used = 10x1.06m x 0.60 = 6.36 sqm.				
	Total = 6.36 metre				
8674	Precoated galvanised steel gutter	metre	10.000	455.00	4550.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of gutter	L.S.	1.040	1.78	1.85
1008	Flats up to 10 mm in thickness	quintal	0.0749	4200.00	314.58
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	20.000	25.00	50.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.000	12.00	360.00
1210	G.I. plain washer thin	100 Nos	70.000	32.00	22.40
1208	Bitumen washer	100 Nos	40.000	30.00	12.00
9999	Carriage of G.I. seam bolts and	L.S.	2.730	1.78	4.86
9999	Sundries	L.S.	5.330	1.78	9.49
	LABOUR:				
0102	Blacksmith 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries	L.S.	12.610	1.78	22.45
0130	Mistry	day	0.280	435.00	121.80
0102	Blacksmith 1 st class	day	0.840	435.00	365.40
0112	Carpenter 2nd class	day	0.620	399.00	247.38
0114	Beldar	day	1.680	329.00	552.72
	TOTAL				7016.93
	Add Water Charges @ 1%				70.17
	TOTAL				7087.10
	Add CPOH @ 15%				1063.06
	Cost of 10 metre				8150.16
	Cost of 1 metre				815.02
	Say				815.00

- 12.52 Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams per sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/ making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.**

- 12.52.1 GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100 sqm				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105.00 sqm				
	MATERIAL:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	105.000	810.00	85050.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.500	190.00	5605.00
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	13.500	120.00	1620.00
8613	Intermediate cross T-Section 24x25x 0.3 mm (1.2 m long)	each	147.000	75.00	11025.00
8614	Intermediate cross T-Section 24x25x 0.3 mm (0.6 m long)	each	147.000	35.00	5145.00
8615	Hanger rod 4 mm thick	each	72.000	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.000	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.000	4.00	288.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
9999	Sundries i.e scaffolding etc.	L.S.	187.950	1.78	334.55
9999	Carriage of materials etc.	L.S.	89.280	1.78	158.92
	LABOUR:				
0111	Carpenter 1 st class	day	28.000	435.00	12180.00
0114	Beldar	day	23.000	329.00	7567.00
	TOTAL				133581.47
	Add Water Charges @ 1%				1335.81
	TOTAL				134917.28
	Add CPOH @ 15%				20237.59
	Cost of 100 sqm				155154.87
	Cost of 1 sqm				1551.55
	Say				1551.55

12.52.2 GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105.00 sqm				
	MATERIAL:				
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	105.000	910.00	95550.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.500	190.00	5605.00
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	13.500	120.00	1620.00
	Including Wastage @ 10%				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
8613	Intermediate cross T-Section 24x25x 0.3 mm (1.2 m long)	each	147.000	75.00	11025.00
	Including Wastage @ 10% on grid for cut outs				
8614	Intermediate cross T-Section 24x25x 0.3 mm (0.6 m long)	each	147.000	35.00	5145.00
	Including Wastage @ 10% on grid for cut outs				
8615	Hanger rod 4 mm thick	each	72.000	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.000	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.000	4.00	288.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
9999	Sundries i.e scaffolding etc.	L.S.	187.950	1.78	334.55
9999	Carriage of materials etc.	L.S.	89.280	1.78	158.92
	LABOUR:				
0111	Carpenter 1 st class	day	28.000	435.00	12180.00
0114	Beldar	day	23.000	329.00	7567.00
	TOTAL				144081.47
	Add Water Charges @ 1%				1440.81
	TOTAL				145522.28
	Add CPOH @ 15%				21828.34
	Cost of 100 sqm				167350.62
	Cost of 1 sqm				1673.51
	Say				1673.50

12.52.3 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16 mm thick fire retardant PVC film on the face side and 12 micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105.00 sqm				
	MATERIAL:				
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	105.000	470.00	49350.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.500	190.00	5605.00
	Including Wastage @ 10%				
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	13.500	120.00	1620.00
	Including Wastage @ 10%				
8613	Intermediate cross T-Section 24x25x 0.3 mm (1.2 m long)	each	147.000	75.00	11025.00
	Including Wastage @ 10% on grid for cut outs				
8614	Intermediate cross T-Section 24x25x 0.3 mm (0.6 m long)	each	147.000	35.00	5145.00
	Including Wastage @ 10% on grid for cut outs				
8615	Hanger rod 4 mm thick	each	72.000	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.000	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.000	4.00	288.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
9999	Sundries i.e scaffolding etc.	L.S.	187.950	1.78	334.55
9999	Carriage of materials etc.	L.S.	89.280	1.78	158.92

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	28.000	435.00	12180.00
0114	Beldar	day	23.000	329.00	7567.00
	TOTAL				97881.47
	Add Water Charges @ 1%				978.81
	TOTAL				98860.28
	Add CPOH @ 15%				14829.04
	Cost of 100 sqm				113689.32
	Cost of 1 sqm				1136.89
	Say				1136.90

12.52.4 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I , of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105.00 sqm				
	MATERIAL:				
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	105.000	485.00	50925.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.500	190.00	5605.00
	Including Wastage @ 10%				
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	13.500	120.00	1620.00
	Including Wastage @ 10%				
8613	Intermediate cross T-Section 24x25x 0.3 mm (1.2 m long)	each	147.000	75.00	11025.00
	Including Wastage @ 10% on grid for cut outs				
8614	Intermediate cross T-Section 24x25x 0.3 mm (0.6 m long)	each	147.000	35.00	5145.00
	Including Wastage @ 10% on grid for cut outs				
8615	Hanger rod 4 mm thick	each	72.000	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.000	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.000	4.00	288.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
9999	Sundries i.e scaffolding etc.	L.S.	187.950	1.78	334.55
9999	Carriage of materials etc.	L.S.	89.280	1.78	158.92
	LABOUR:				
0111	Carpenter 1 st class	day	28.000	435.00	12180.00
0114	Beldar	day	23.000	329.00	7567.00
	TOTAL				99456.47
	Add Water Charges @ 1%				994.56
	TOTAL				100451.03
	Add CPOH @ 15%				15067.65
	Cost of 100 sqm				115518.68
	Cost of 1 sqm				1155.19
	Say				1155.20

- 12.53 Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture spintone/cosmos / Hexa or equivalent of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture (Spintone / Cosmos/hexa) in the grid, including, cutting/ making opening for services like diffusers, grills,light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T' , bottom exposed with 24 mm of all T-sections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by engineer-in-charge.Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/ opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC. value of 0.50(Minimum), light reflection > 85%, non - combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity<0.043 w/m 0 KC.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	MATERIAL:				
8589	Calcium Silicate tegular edged ceiling tiles 595x595 mm and 15 mm thick Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.000	860.00	90300.00
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long)	each	29.500	195.00	5752.50
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	13.500	125.00	1687.50
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	147.000	80.00	11760.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (0.6 metre long)	each	147.000	40.00	5880.00
8615	Hanger rod 4 mm thick	each	72.000	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.000	6.00	432.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.000	4.00	288.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	100.000	1.00	100.00
9999	Scaffolding etc.	L.S.	498.650	1.78	887.60

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of material etc.	L.S.	237.480	1.78	422.71
9999	Sundries	L.S.	310.700	1.78	553.05
	LABOUR:				
0111	Carpenter 1 st class	day	28.000	435.00	12180.00
0114	Beldar	day	23.000	329.00	7567.00
	TOTAL				141986.36
	Add Water Charges @ 1%				1419.86
	TOTAL				143406.22
	Add CPOH @ 15%				21510.93
	Cost of 100 sqm				164917.15
	Cost of 1 sqm				1649.17
	Say				1649.15

12.54 Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring 'T' with :

12.54.1 GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105 sqm				
	MATERIAL:				
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	105.000	895.00	93975.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	60.000	180.00	10800.00
	Including wastage @ 10%				
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	27.700	155.00	4293.50
	Including wastage @ 10%				
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	33.000	165.00	5445.00
	Including wastage @ 10% on grid for cut outs				
8607	Spring T-connector	each	44.000	5.00	220.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
8608	C Carrier Connector	each	44.000	11.00	484.00
8609	C Suspension Clip	each	88.000	11.00	968.00
8610	Wire Coupling Clip	each	333.000	9.00	2997.00
8615	Hanger rod 4 mm thick	each	80.000	8.00	640.00
8616	Adjustment clip 85x30x0.8 mm	each	80.000	6.00	480.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	80.000	4.00	320.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	80.000	50.00	4000.00
9999	Sundries i.e. scaffolding etc.	L.S.	188.000	1.78	334.64
9999	Carriage of materials etc.	L.S.	90.000	1.78	160.20
	LABOUR:				
0111	Carpenter 1 st class	day	28.000	435.00	12180.00
0114	Beldar	day	23.000	329.00	7567.00
	TOTAL				144864.34
	Add Water Charges @ 1%				1448.64
	TOTAL				146312.98
	Add CPOH @ 15%				21946.95
	Cost of 100 sqm				168259.93
	Cost of 1 sqm				1682.60
	Say				1682.60

12.54.2 GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105 sqm				
	MATERIAL:				
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	105.000	1000.00	105000.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	60.000	180.00	10800.00
	Including wastage @ 10%				
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	27.700	155.00	4293.50
	Including wastage @ 10%				
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	33.000	165.00	5445.00
	Including wastage @ 10% on grid for cut outs				
8607	Spring T-connector	each	44.000	5.00	220.00
8608	C Carrier Connector	each	44.000	11.00	484.00
8609	C Suspension Clip	each	88.000	11.00	968.00
8610	Wire Coupling Clip	each	333.000	9.00	2997.00
8615	Hanger rod 4 mm thick	each	80.000	8.00	640.00
8616	Adjustment clip 85x30x0.8 mm	each	80.000	6.00	480.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	80.000	4.00	320.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	80.000	50.00	4000.00
9999	Sundries i.e. scaffolding etc.	L.S.	188.000	1.78	334.64
9999	Carriage of materials etc.	L.S.	90.000	1.78	160.20
	LABOUR:				

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	Carpenter 1 st class	day	28.000	435.00	12180.00
0114	Beldar	day	23.000	329.00	7567.00
	TOTAL				155889.34
	Add Water Charges @ 1%				1558.89
	TOTAL				157448.23
	Add CPOH @ 15%				23617.23
	Cost of 100 sqm				181065.46
	Cost of 1 sqm				1810.65
	Say				1810.65

12.55 Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection >0.70 and initial emittance >0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Area= 10 sqm+				
	Add wastage @ 3%=0.3 sqm				
	Total=10.30 sqm				
	MATERIAL:				
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	10.300	467.00	4810.10
	Cement mortar 1:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	4172.05	934.54
0367	Portland Cement	tonne	0.044	6300.00	277.20
0368	White Cement	tonne	0.044	14000.00	616.00
2209	Carriage of cement	tonne	0.088	94.65	8.33
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.080	75.00	231.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.600	399.00	638.40
0115	Coolie	day	2.000	329.00	658.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.000	363.00	363.00
0101	Bhisti	day	1.000	363.00	363.00
0013	Machine for rubbing of floors	day	1.600	350.00	560.00
9999	Sundries including carborandum stone etc.	L.S.	169.980	1.78	302.56
	TOTAL				9762.13
	Add Water Charges @ 1%				97.62
	TOTAL				9859.75
	Add CPOH @ 15%				1478.96
	Cost of 10 sqm				11338.71
	Cost of 1 sqm				1133.87
	Say				1133.85

- 12.56 Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1: 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
7050	PU Primer	sqm	1.000	41.00	41.00
	Area for PU Spray = 1 sqm+				
	Add for wastage @ 10%=0.10 sqm				
	Total=1.10 sqm				
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	1.100	421.00	463.10
7052	GI wire netting 3/4" x 24 G	sqm	1.000	27.00	27.00
9999	Sundries	L.S.	6.710	1.78	11.94
9999	Polymerized mastic for all joints	L.S.	20.130	1.78	35.83
7053	400 G polythene sheet	sqm	1.000	15.00	15.00
	Wearing course i.e. 40mm cement screed 1:2:4				
9999	Cement	L.S.	44.670	1.78	79.51
9999	Graded stone	L.S.	13.750	1.78	24.48
9999	Sand	L.S.	21.480	1.78	38.23
9999	Carriage of material	L.S.	16.780	1.78	29.87
	LABOUR:				
9999	For PU spray	L.S.	80.540	1.78	143.36
9999	For cement screed with Polythene sheet	L.S.	53.690	1.78	95.57
	TOTAL				1004.89
	Add Water Charges @ 1%				10.05
	TOTAL				1014.94
	Add CPOH @ 15%				152.24
	Cost of 1 sqm				1167.18
	Say				1167.20

- 12.57 Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m3, 50 mm thick, wrapped in 200 G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:Area for 10.00sqm. (Finished surface) =				
	10.00sqm.+				
	Add Wastage @ 10% =1.00 sqm				
	Total =11.00sqm				
7232	Resin Bonded Glass wool 24 kg/ m3: 50 mm thick	sqm	11.000	204.00	2244.00
9999	Sundries including GL wire 20 SWg and Virgin polythene bags 200 gram	L.S.	52.000	1.78	92.56

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
9999	Sundries (screws and washers)	L.S.	20.000	1.78	35.60
	TOTAL				2754.16
	Add Water Charges @ 1%				27.54
	TOTAL				2781.70
	Add CPOH @ 15%				417.25
	Cost of 10 sqm				3198.95
	Cost of 1 sqm				319.90
	Say				319.90

- 12.58 Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/ making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.**
- 12.58.1 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg / cum backing.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 100.00 sqm				
	Details of cost for 100 sqm				
	Ceiling area = 100 sq.m				
	Add wastage @ 5% = 0.05 Sq.m				
	Total =100.05 sqm				
	MATERIAL:				
8784	8 mm thick Calcium silicate perforated tiles of size 595 x595 mm	sqm	100.050	690.00	69034.50
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.500	190.00	5605.00
	including wastage of 10%				
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	13.500	120.00	1620.00
	including wastage of 10%				
8613	Intermediate cross T-Section 24x25x 0.3 mm (1.2 m long)	each	147.000	75.00	11025.00
	including wastage of 10% on grid for cut outs				
8614	Intermediate cross T-Section 24x25x 0.3 mm (0.6 m long)	each	147.000	35.00	5145.00
	including wastage of 10% on grid for cut outs				
8615	Hanger rod 4 mm thick	each	72.000	8.00	576.00
8616	Adjustment clip 85x30x0.8 mm	each	72.000	6.00	432.00

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.000	4.00	288.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
9999	Cariage of materials	L.S.	89.280	1.78	158.92
9999	Sundries i.e scaffolding etc.	L.S.	187.950	1.78	334.55
	LABOUR:				
0111	Carpenter 1 st class	day	28.000	435.00	12180.00
0114	Beldar	day	23.000	329.00	7567.00
	TOTAL				117565.97
	Add Water Charges @ 1%				1175.66
	TOTAL				118741.63
	Add CPOH @ 15%				17811.24
	Cost of 100.00 sqm				136552.87
	Cost of 1 sqm				1365.53
	Say				1365.55

- 12.59 Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45 x15 x 0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/ c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes, finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specifacaton and direction of the Engineer in charge but excluding the cost of painting with:**

- 12.59.1 a. 8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.**

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 103.68 sqm</i>				
	Details of cost for 10.8 m x 9.6m =				
	103.68 sqm				
	MATERIAL:				
	Area = 103.68 sq.m + Add. Wastage of				
	5% = 5.18 sqm Total = 108.86 sqm				
8699	8 mm thick tapered edge calcium silicate board	sqm	108.860	250.00	27215.00
7010	Galvanised Steel ceiling section (size 80x 26x0.50 mm)	metre	238.140	72.00	17146.08
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	41.840	43.00	1799.12
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.720	72.00	6531.84
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	10.800	23.00	248.40
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.000	4.50	850.50

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	216.000	25.00	540.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.000	4.00	288.00
7020	All drive screws (for gypsum board)	100 Nos	1000.000	60.00	600.00
7016	Joint filler	kilogram	22.810	27.00	615.87
7017	Joint finisher	kilogram	34.210	24.00	821.04
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.000	50.00	3600.00
7018	Joint tape roll	roll	1.270	135.00	171.45
7021	Primer (for gypsum board)	litre	18.660	73.00	1362.18
9999	Cariage of materials	L.S.	447.200	1.78	796.02
9999	Sundries i.e rawl plug, scaffolding etc.	L.S.	807.300	1.78	1436.99
	LABOUR:				
0112	Carpenter 2nd class	day	31.100	399.00	12408.90
0114	Beldar	day	31.100	329.00	10231.90
0131	Painter	day	10.370	399.00	4137.63
	TOTAL				90800.92
	Add Water Charges @ 1%				908.01
	TOTAL				91708.93
	Add CPOH @ 15%				13756.34
	Cost of 103.68				105465.27
	Cost of 1 sqm				1017.22
	Say				1017.20

12.60 Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Rockwool conforming to IS: 8183, density 48 kg/m³, 50 mm thick, wrapped in 200 G Virgin Polythene bags fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5mm x 24 gauge wire mesh, for top most ceiling of building.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Details of For 10 sqm				
	Area for 10.00sqm.				
	(Finished surface)= 10.00sqm.+				
	Add 10% for overlappings & wastage=				
	1.00sqm.				
	Total= 11.00sqm				
	MATERIAL:				
7273	Resin Bonded Rockwool 48 kg/m ³	sqm	11.000	211.00	2321.00
9999	GI chicken mesh 12.5mm x 24 SWG	L.S.	351.000	1.78	624.78
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	104.000	1.78	185.12
	LABOUR:				
0111	Carpenter 1 st class	day	1.000	435.00	435.00
0114	Beldar	day	2.000	329.00	658.00
	TOTAL				4223.90
	Add Water Charges @ 1%				42.24
	TOTAL				4266.14
	Add CPOH @ 15%				639.92
	Cost of 10 sqm				4906.06
	Cost of 1 sqm				490.61
	Say				490.60

12.61 Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m3, 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceiling and held in position by criss- crossing GI wire.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.00 sqm</i>				
	Details of For 10 sqm				
	Area for 10.00sqm. (Finished surface)= 10.00sqm.+				
	Add 10% for overlappings & wastage=				
	1.00sqm.				
	Total= 11.00sqm				
	MATERIAL:				
7273	Resin Bonded Rockwool 48 kg/m3	sqm	11.000	211.00	2321.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	52.000	1.78	92.56
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
	TOTAL				2795.56
	Add Water Charges @ 1%				27.96
	TOTAL				2823.52
	Add CPOH @ 15%				423.53
	Cost of 10.00 sqm				3247.05
	Cost of 1 sqm				324.71
	Say				324.70

12.62 Providing and fixing thermal insulation with Resin Bonded rock wool conforming to IS: 8183, having density 48 kg/m3,50 mm thick,wrapped in 200 G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held and in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	(Finished surface) = 10.00sqm.+				
	Add 10 % for overlapping and wastage =				
	1.00 sqm				
	Total=11.00sqm				
	MATERIAL:				
7273	Resin Bonded Rockwool 48 kg/m3	sqm	11.000	211.00	2321.00
9999	Sundries including GI wire 20 SWg and Virgin polythene bags 200 gram and Carriage	L.S.	52.000	1.78	92.56
	LABOUR:				
0111	Carpenter 1 st class	day	0.500	435.00	217.50
0114	Beldar	day	0.500	329.00	164.50
9999	sundries (screws & washers)	L.S.	20.000	1.78	35.60
	TOTAL				2831.16
	Add Water Charges @ 1%				28.31
	TOTAL				2859.47
	Add CPOH @ 15%				428.92
	Cost of 10.00 sqm				3288.39
	Cost of 1 sqm				328.84
	Say				328.85

12.63 Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM) C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall strictly as per manufacturer's specifications and as approved by engineer In charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the performance of SRI and also the durability of coating, all complete as per direction of Engineer-in-charge.

Code No	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.00 sqm</i>				
	Details of For 10 sqm				
	MATERIAL:				
7238	High Albedo paint	kg	7.170	250.00	1792.50
9999	Carriage of paint	L.S.	4.530	1.78	8.06
	LABOUR:				
0131	Painter	day	0.540	399.00	215.46
0114	Beldar	day	0.540	329.00	177.66
	(for cleanign the surface)				
9999	Sundries (Brushes & T&P etc.)	L.S.	13.520	1.78	24.07
	TOTAL				2217.75
	Add Water Charges @ 1%				22.18
	TOTAL				2239.93
	Add CPOH @ 15%				335.99
	Cost of 10 sqm				2575.92
	Cost of 1 sqm				257.59
	Say				257.60

