Azadi Ka Amrit Mahotsav

सत्यमेव जयते

स्वच्छ भारत
एक कदम स्वच्छता की ओर

GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

DELHI ANALYSIS OF RATES (E & M)

2022

CPWD

DIRECTOR GENERAL, CPWD, NIRMAN BAHAWAN, NEW DELHI-110011

GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

DELHI ANALYSIS OF RATES (E & M)

2022

PUBLISHED UNDER THE AUTHORITY OF
DIRECTOR GENERAL, CPWD, NIRMAN BAHAWAN, NEW DELHI-110011

©All rights reserved. No part of this publication, either in English or in Hindi, may be reproduced in any form or by any means, electronic or mechanical including photocopy, recording or any information storage and retrieval system, without permission, in writing, from the Director General, CPWD, New Delhi.

Disclaimer

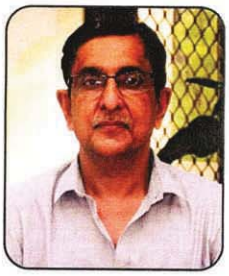
The Rates taken in the Delhi Analysis of Rates (E&M) 2022 are indicative and actual rates shall be governed by the market forces. Further, its use by the Government Departments, PSUs, Private bodies and individuals shall be at their own risk and discretion. CPWD shall not be responsible for any ambiguity, discrepancy, dispute or financial loss arising directly or indirectly by using or following items of Delhi Analysis of Rates (E&M) 2022 by such Government Department/PSUs/Private Bodies/Individuals.

A GOVERNMENT OF INDIA PUBLICATION

Published by under the authority of

Director General

Central Public Works Department
Nirman Bhawan
New Delhi-110011



Shailendra Sharma
Director General

भारत सरकार
Government of India

CPWD

केन्द्रीय लोक निर्माण विभाग
निर्माण भवन, नई दिल्ली-110011
Central Public Works Department
Nirman Bhawan, New Delhi-110011
Tel : 23062556/1317, Fax : 23061884
E-mail : cpwd_dgw@nic.in

FOREWORD

This Delhi Analysis of Rates (E&M) 2022 is a comprehensive and useful document. The input of materials, labour and machinery is based on realistic assessments. DAR (E&M) 2022 contains most of the items of Analysis of Rates (E&M) 2018. The rates of all the items have been revised based on minimum wage rates of labour issued by Government of India for Delhi w.e.f. 01-04-2022 and material collected during Jan-Mar 2022 in Delhi. The analysis of items of Wet riser and Sprinkler System and BEE 5 Star Rated Ceiling Fan with Brushless Direct Current (BLDC) Motor have been added in this edition.

In order to arrive at rates of work for a specific location and at a particular time, it is desirable to analyse the rates based on prevailing rates of material and labour. The Delhi Analysis of Rates (E & M) 2022 will help all Engineers of CPWD, other Government Departments, Public Undertakings, Autonomous bodies and Consultants who follow CPWD Schedule of Rates in their works in analysing rates of works at different locations.

I acknowledge the hard work and sincere effort put in by Sh. Dharmesh Chandra Goel, ADG(Tech.), Sh. Vimal Kumar, CE(E)CSQ, Sh. Ramayan Prasad Gupta, SE(E)TAS, Sh. Saurabh Kumar, SE (E)TLQA, Sh. Ashok Kumar Meena, EE (E)TAS, Sh. Sandeep Kumar Das, AE(E)TAS-II, Sh. Rajeev Bisht, AE(E)TAS-I and other staff of CSQ(E) whose names are not mentioned here for the sake of brevity. I also acknowledge the valuable contribution of Sh. Vikas Rana, CE(NDZ-I), Sh. Ravindra Pratap Singh, CE(NDZ-II) and Sh. Ujjwal Mitra, CE(NDZ-III) as well as all those involved in the process of revision and finalisation of Delhi Analysis of Rates (E&M) 2022.

I am sure that this Analysis of Rates (E&M) will be useful to all Engineers of CPWD and to other engineering organizations of Central/State Governments, practicing Architects and E&M Consultants.

(SHAILENDRA SHARMA)

Place: New Delhi
Date: July 2022

Dharmesh Chandra Goel
Addl. Director General (Tech)

सत्यमेव जयते

भारत सरकार
Government of India

केन्द्रीय लोक निर्माण विभाग
निर्माण भवन, नई दिल्ली -110011
Central Public Works Department
Nirman Bhawan, New Delhi-110011
Tel: 23063389, Fax : 23061833
Email: adgtd@nic.in

PREFACE

The Delhi Schedule of Rates (E&M) 2022 which is the revised edition of Delhi Schedule of Rates (E&M) 2018 and combines Schedule of Rates for Electrical Works (Part I) Internal, (Part-II) External, few items of Plumbing, Ducting, AHUs of HVAC works and Fire Detection and Alarm System, Wet riser and Sprinkler System and BEE 5 Star Rated Ceiling Fan With Brush Les Direct Current (BLDC) Motor.

The Delhi Analysis of Rates (E&M) 2022 is a detailed document based on which Delhi Schedule of Rates (E&M) 2022 is prepared. The rates of all items have been analysed based on minimum wage rates of labour issued by Government of India for Delhi w.e.f. 01-04-2022 and prevailing market rates of materials (without any taxes etc.) in Delhi collected during Jan-Mar 2022. Coefficient of labour and materials have been adopted based on previous Analysis of Rates (E&M) 2018.

The Delhi Analysis of Rates (E&M)-2022 has been prepared as per following:

1. The Items of Works contained herein are to be executed as per CPWD General Specifications for Electrical Works Part-I Internal, Part-II External, Part- IV Sub-Station, CPWD General Specification for HVAC Works 2017, CPWD General Specification for Fire Detection and Alarm System 2018 and CPWD General Specification for Wet Riser and Sprinkler System 2020, with up-to-date amendments/correction slips.
2. The Basic Rates of labour and materials (without any taxes etc.) have been provided in Appendix-I & II.
3. The rates in this DAR are for working height upto 4.5 m from floor level wherever height is not specified.
4. For Electrical Panels, CPWD General Specifications for Electrical Works Part-IV Sub-Station shall be applicable.
5. The rates of materials are for reputed brands, factory fabricated and tested where ever available from manufactures as submitted by field units.
6. The rates of AHUs have been incorporated only for four and six rows deep cooling coils. For any change in the parameter, the rates have to be analysed by the NIT approving authority.
7. A new Chapter for Wet riser and Sprinkler System and BEE 5 Star Rated Ceiling Fan with Brush Les Direct Current (BLDC) Motor has been added in this DAR (E&M).
8. The effect of GST on Works Contract has also been incorporated in all the items.

All efforts have been made to ensure the correctness of the Delhi Analysis of Rates (E&M) 2022. Errors, omissions and/or suggestions for improvement, if any, may kindly be brought to the notice of the Superintending Engineer (E) TAS/Executive Engineer (E) TAS in the office of the Chief Engineer, CSQ (E), Nirman Bhawan, New Delhi- 110011 (Tel. No. 011-23061418; email: delseetas.cpwd@nic.in; deleeetas.cpwd@gov.in).

Place: New Delhi
Dated: July 2022

(Dharmesh Chandra Goel)

CONTENTS

CHAPTER	NAME OF CHAPTER/SUBHEAD	PAGE NO.
1.	WIRING	1
2.	MCCB, MCB & DB'S	103
3.	RISING MAINS & BUS TRUNKING	136
4.	CABLE TRAYS	186
5.	EARTIHNG	279
6.	LIGHTING CONDUCTOR	310
7.	MV CABLE LAYING	316
8	HV CABLE LAYING	333
9.	MV CABLE JOINTING & END TERMINATION	341
10.	HV CABLE JOINTING & END TERMINATION	407
11.	POLE ERECTION	424
12.	MV OVER HEAD LINE WORK	432
13.	HV OVER HEAD LINE WORK	456
14.	MISC. CIVIL ITEMS	473
15.	LIGHTING CONTROLS	484
16.	HVAC (ONLY PLUMBING, DUCTING & AHU)	488
17.	FIRE DETECTION AND ALARM SYSTEM	618
18.	WET RISER & SPRINKLER SYSTEM	649
19.	BEE 5 STAR RATED CEILING FAN WITH BRUSH LESS DIRECT CURRENT (BLDC) MOTOR	741
Appendix-I	BASIC RATE OF LABOUR & HIRE CHARGES	742
Appendix-II	BASIC RATE OF MATERIAL	743

GENERAL NOTE

The Analysis of Rate (E&M)-2022 has been prepared on the following:

1. The items of works are to be executed as per CPWD General Specifications for Electrical Works Part-I Internal, Part-II External, Part-IV Sub-Station and CPWD General Specifications for HVAC Works 2017, Part-VI-General Specification for Fire Detection and Alarm System, Part-V-General Specification for Wet Riser & Sprinkler System with upto date amendments/ correction slips.

2. The Basic Rates of labour and materials have been provided in Appendix-I & II.

3. The rates in this DAR are for working height upto 4.5m from floor level wherever height is not specified.

4. For Electrical Panels, CPWD General Specifications for Electrical Works Part-IV shall be applicable.

5. The rates of materials are for reputed brands, factory fabricated and tested where ever available from manufactures as submitted by field units.

6. The rates of AHUs have been incorporated only for four and six rows deep cooling coils.

7. The Rates of Fire Detection and Alarm System have been incorporated for conventional and addressable Fire Detection System. For any change in the parameters, the rates have to be analysed by the NIT approving authority.

CHAPTER 1 – W I R I N G

1.1 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm RLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.

1.1.1 Group A

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 2X3+1X1.5 = 7.5 + 0.38 (wastage @ 5%) = 7.88m	meter	7.88	18.00	141.84
1201	20 mm dia. ISI marked, steel conduit '= 2.5 + 0.13 (wastage @ 5%) = 2.63m	meter	2.63	73.00	191.99
1206	20 mm inspection/ solid bends	each	1.00	24.00	24.00
1211	20 mm sockets	each	1.00	24.00	24.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	8.00	32.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.90	7.20
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	23.00	23.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.20	14.40
1216	20 mm junction box, one way	each	1.00	34.00	34.00
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm longmarked	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**489.23**
	Cartage @ 1 % of A1				4.89
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.10	734.00	73.40
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**931.29**
	Add 12% GST (MF= 0.1405)				**130.85**
	TOTAL				**1062.14**
	OVERHEADS & PROFIT @ 15 %				**159.32**
	TOTAL				**1221.46**

	Rate per point	1221.46
	Say	**1221.00**

1.1.2 Group B
COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 2X3+ 1X1.5 = 7.5 + 0.38 (wastage @ 5%) = 7.88m	meter	10.5	18.00	189.00
1201	20 mm dia. ISI marked, steel conduit '= 2.5 + 0.13 (wastage @ 5%) = 2.63m	meter	3.68	73.00	268.64
1206	20 mm inspection/ solid bends	each	1.00	24.00	24.00
1211	20 mm sockets	each	2.00	8.00	16.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
2851	Al. Alloy/ cadmium plated iron screws,20mm	each	8.00	0.90	7.20
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	23.00	23.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.20	14.40
1216	20 mm junction box, one way	each	1.00	34.00	34.00
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	Each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**673.54**
	Cartage @ 1 % of A1				6.74
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.10		73.40
1006	Painter	day	0.005		3.67
1007	Khallasi	day	0.30		198.90
	TOTAL				**1117.45**
	Add 12% GST (MF= 0.1405)				**157.00**
	TOTAL				**1274.45**
	OVERHEADS & PROFIT @ 15 %				**191.17**
	TOTAL				**1465.62**
	Rate per point				1465.62
	Say				**1465.00**

1.1.3 Group C
COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable ' = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	Meter	13.15	18.00	236.70

1201	20 mm dia. ISI marked, steel conduit '= 4.5 + 0.23 (wastage @ 5%) = 4.73m	Meter	4.73	73.00	345.29
1206	20 mm inspection/ solid bends	each	1.00	24.00	24.00
1211	20 mm sockets	each	2.00	8.00	16.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.90	7.20
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	23.00	23.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.20	14.40
1216	20 mm junction box, one way	each	1.00	34.00	34.00
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**797.89**
	Cartage @ 1 % of A1				7.98
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1010	Mason, Grade 2	day	0.10	734.00	73.40
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**1389.94**
	Add 12% GST (MF= 0.1405)				**195.29**
	TOTAL				**1585.23**
	OVERHEADS & PROFIT @ 15 %				**237.78**
	TOTAL				**1823.01**
	Rate per point				1823.01
	Say				**1823.00**

1.2 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. Mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	18.00	236.70
1201	20 mm dia. ISI marked, steel conduit '= 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	73.00	345.29
1206	20 mm inspection/ solid bends	each	1.00	24.00	24.00
1211	20 mm sockets	each	2.00	8.00	16.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.90	7.20
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	23.00	23.00

1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.20	14.40
1216	20 mm junction box, one way	each	1.00	34.00	34.00
1432	S.P. 5/6 A, two way switch, piano type ISI marked	each	1.00	19.00	19.00
2857	PVC fastener 40mm long	each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1	7.20	7.20
	Total cost of materials				**806.89**
	Cartage @ 1 % of A1				8.07
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1010	Mason, Grade 2	day	0.10	734.00	73.40
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**1399.03**
	Add 12% GST (MF= 0.1405)				**196.56**
	TOTAL				**1595.59**
	OVERHEADS & PROFIT @ 15 %				**239.34**
	TOTAL				**1834.93**
	Rate per point				1834.93
	Say				**1835.00**

1.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.

1.3.1 Group A

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 2X3+1X1.5 = 7.5 + 0.38 (wastage @ 5%) = 7.88m	meter	7.88	18.00	141.84
1201	20 mm dia. ISI marked, steel conduit '= 2.5 + 0.13 (wastage @ 5%) = 2.63m	meter	2.63	73.00	191.99
1206	20 mm inspection/ solid bends	each	1.00	24.00	24.00
1211	20 mm sockets	each	0.00	8.00	0.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	8.00	32.00
1216	20 mm junction box, one way	each	1.00	34.00	34.00
1300	Modular GI box for 2 module	each	0.50	33.00	16.50
1421	Modular base & cover plate for 2 module	each	0.50	42.00	21.00
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	34.00	34.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**506.13**
	Cartage @ 1 % of A1				5.06
	LABOUR				

1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.10	734.00	73.40
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**948.36**
	Add 12% GST (MF= 0.1405)				**133.24**
	TOTAL				**1081.61**
	OVERHEADS & PROFIT @ 15 %				**162.24**
	TOTAL				**1243.85**
	Rate per point				1243.85
	Say				**1244.00**

1.3.2 Group B

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 2x4+1x2 = 10 + 0.5 (wastage @ 5%) = 10.5m	meter	10.5	18.00	189.00
1201	20 mm dia. ISI marked, steel conduit '= 3.5 + 0.18 (wastage @ 5%) = 3.68m	meter	3.68	73.00	268.64
1206	20 mm inspection/ solid bends	each	1.00	24.00	24.00
1211	20 mm sockets	each	2.00	8.00	16.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
1216	20 mm junction box, one way	each	1.00	34.00	34.00
1300	Modular GI box for 2 module	each	0.50	33.00	16.50
1421	Modular base & cover plate for 2 module	each	0.50	42.00	21.00
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	34.00	34.00
2857	PVC fastener 40mm long	each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**690.44**
	Cartage @ 1 % of A1				6.90
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.10	734.00	73.40
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**1134.51**
	Add 12% GST (MF= 0.1405)				**159.40**
	TOTAL				**1293.91**
	OVERHEADS & PROFIT @ 15 %				**194.09**
	TOTAL				**1488.00**
	Rate per point				1488.00
	Say				**1488.00**

1.3.3 Group B

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	18.00	236.70
1201	20 mm dia. ISI marked, steel conduit '= 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	73.00	345.29
1206	20 mm inspection/ solid bends	each	1.00	24.00	24.00
1211	20 mm sockets	each	2.00	8.00	16.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
1216	20 mm junction box, one way	each	1.00	34.00	34.00
1300	Modular GI box for 2 module	each	0.50	33.00	16.50
1421	Modular base & cover plate for 2 module	each	0.50	42.00	21.00
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	34.00	34.00
2857	PVC fastener 40mm long	each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**814.79**
	Cartage @ 1 % of A1				8.15
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1010	Mason, Grade 2	day	0.10	734.00	73.40
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**1407.01**
	Add 12% GST (MF= 0.1405)				**197.68**
	TOTAL				**1604.69**
	OVERHEADS & PROFIT @ 15 %				**240.70**
	TOTAL				**1845.39**
	Rate per point				1845.39
	Say				**1845.00**

1.4 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	18.00	236.70

1201	20 mm dia. ISI marked, steel conduit '= 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	73.00	345.29
1206	20 mm inspection/ solid bends	each	1.00	24.00	24.00
1211	20 mm sockets	each	2.00	8.00	16.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
1216	20 mm junction box, one way	each	1.00	34.00	34.00
1217	20 mm junction box, two way	each	2.00	34.00	68.00
1300	Modular GI box for 2 module	each	0.50	33.00	16.50
1421	Modular base & cover plate for 2 module	each	0.50	42.00	21.00
1403	S.P. 5/6 A, two way modular switch, ISI marked	each	1.00	68.00	68.00
2857	PVC fastener 40mm long	each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**916.79**
	Cartage @ 1 % of A1				9.17
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1010	Mason, Grade 2	day	0.10	734.00	73.40
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**1510.03**
	Add 12% GST (MF= 0.1405)				**212.16**
	TOTAL				**1722.19**
	OVERHEADS & PROFIT @ 15 %				**258.33**
	TOTAL				**1980.52**
	Rate per point				1980.52
	Say				**1981.00**

1.5 Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	42.00	6681.36
1201	20 mm dia. ISI marked, steel conduit '= 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	73.00	3832.50

1206	20 mm inspection/ solid bends	each	4.00	24.00	96.00
1211	20 mm sockets	each	10.00	8.00	80.00
1217	20 mm junction box, two way	each	6.00	34.00	204.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	8.00	680.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**11657.56**
	Cartage @ 1 % of A1				116.58
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	273.00	1.37
1007	Khallasi	day	3.25	663.00	2154.75
	TOTAL				**16495.76**
	Add 12% GST (MF= 0.1405)				**2317.65**
	TOTAL				**18813.41**
	OVERHEADS & PROFIT @ 15 %				**2822.01**
	TOTAL				**21635.42**
	Rate per meter				432.71
	Say				**433.00**

1.6 Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	42.00	13362.30
1202	25 mm dia. ISI marked, steel conduit '= 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	93.00	4882.50
1207	25 mm inspection/ solid bends	each	4.00	32.00	128.00
1212	25 mm sockets	each	10.00	9.00	90.00
1217	20 mm junction box, two way	each	6.00	34.00	204.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**19600.50**
	Cartage @ 1 % of A1				196.01
	LABOUR				
1001	Wireman	day	3.00	806.00	2418.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	3.75	663.00	2486.25
	TOTAL				**25254.93**

	Add 12% GST (MF= 0.1405)				3548.32
	TOTAL				**28803.24**
	OVERHEADS & PROFIT @ 15 %				**4320.49**
	TOTAL				**33123.73**
	Rate per meter				662.47
	Say				**662.00**

1.7 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required

1.7.1 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	18.00	2863.44
1201	20 mm dia. ISI marked, steel conduit '= 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	73.00	3832.50
1206	20 mm inspection/ solid bends	each	4.00	24.00	96.00
1211	20 mm sockets	each	15.00	8.00	120.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	8.00	680.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**7675.64**
	Cartage @ 1 % of A1				76.76
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	3.25	663.00	2154.75
	TOTAL				**12476.32**
	Add 12% GST (MF= 0.1405)				**1752.92**
	TOTAL				**14229.24**
	OVERHEADS & PROFIT @ 15 %				**2134.39**
	TOTAL				**16363.63**
	Rate per meter				327.27
	Say				**327.00**

1.7. 2 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	28.00	4454.24

1201	20 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	73.00	3832.50
1206	20 mm inspection/ solid bends	each	4.00	24.00	96.00
1211	20 mm sockets	each	15.00	8.00	120.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	8.00	680.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**9266.44**
	Cartage @ 1 % of A1				92.66
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	3.25	663.00	2154.75
	TOTAL				**14083.02**
	Add 12% GST (MF= 0.1405)				**1978.66**
	TOTAL				**16061.69**
	OVERHEADS & PROFIT @ 15 %				**2409.25**
	TOTAL				**18470.94**
	Rate per meter				369.42
	Say				**369.00**

1.7.3 2 X 4 sq. mm + 1 X 4 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	42.00	6681.36
1201	20 mm dia. ISI marked, steel conduit '= 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	73.00	3832.50
1206	20 mm inspection/ solid bends	each	4.00	24.00	96.00
1211	20 mm sockets	each	15.00	8.00	120.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	8.00	680.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S	1.00	7.20	7.20
	Total cost of materials				**11493.56**
	Cartage @ 1 % of A1				114.94
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	.day	0.005	734.00	3.67
1007	Khallasi	day	3.25	663.00	2154.75
	TOTAL				**16332.42**

	Add 12% GST (MF= 0.1405)				**2294.70**
	TOTAL				**18627.12**
	OVERHEADS & PROFIT @ 15 %				**2794.07**
	TOTAL				**21421.19**
	Rate per meter				428.42
	Say				**428.00**

1.7.4 2 X 6 sq. mm + 1 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '= 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	63.00	10022.04
1202	25 mm dia. ISI marked, steel conduit '= 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	93.00	4882.50
1207	25 mm inspection/ solid bends	each	4.00	32.00	128.00
1212	25 mm sockets	each	15.00	9.00	135.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**16101.24**
	Cartage @ 1 % of A1				161.01
	LABOUR				
1001	Wireman	day	3.50	806.00	2821.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	4.25	663.00	2817.75
	TOTAL				**22455.17**
	Add 12% GST (MF= 0.1405)				**3154.95**
	TOTAL				**25610.12**
	OVERHEADS & PROFIT @ 15 %				**3841.52**
	TOTAL				**29451.64**
	Rate per meter				589.03
	Say				**589.00**

1.7.5 2 X 10 sq. mm + 1 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x2=101+5.05(Wastage @ 5%) =106.05 m	meter	106.05	106.00	11241.30

1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x1=50.5+2.53 (Wastage @ 5%) =53.03 m	meter	53.03	63.00	3340.89
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	93.00	4882.50
1207	25 mm inspection/ solid bends	each	4.00	32.00	128.00
1212	25 mm sockets	each	15.00	9.00	135.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**20661.39**
	Cartage @ 1 % of A1				206.61
	LABOUR				
1001	Wireman	day	3.50	806.00	2821.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	4.25	663.00	2817.75
	TOTAL				**27060.92**
	Add 12% GST (MF= 0.1405)				**3802.06**
	TOTAL				**30862.98**
	OVERHEADS & PROFIT @ 15 %				**4629.45**
	TOTAL				**35492.43**
	Rate per meter				709.85
	Say				**710.00**

1.7.6 2 X 16 sq. mm + 1 X 6 sq. mm earth wire
COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x2=101+5.05(Wastage @ 5%) =106.05 m	meter	106.05	164.00	17392.20
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x1=50.5+2.53 (Wastage @ 5%) =53.03 m	meter	53.03	63.00	3340.89
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	130.00	6825.00
1208	32 mm inspection/ solid bends	each	4.00	60.00	240.00
1213	32 mm sockets	each	15.00	13.00	195.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	16.00	1360.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**29436.79**
	Cartage @ 1 % of A1				294.37
	LABOUR				

1001	Wireman	day	3.50	806.00	2821.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	4.25	663.00	2817.75
	TOTAL				**35924.08**
	Add 12% GST (MF= 0.1405)				**5047.33**
	TOTAL				**40971.41**
	OVERHEADS & PROFIT @ 15 %				**6145.71**
	TOTAL				**47117.12**
	Rate per meter				942.34
	Say				**942.00**

1.7.7 4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	28.00	8908.20
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	93.00	4882.50
1207	25 mm inspection/ solid bends	each	4.00	32.00	128.00
1212	25 mm sockets	each	15.00	9.00	135.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**14987.40**
	Cartage @ 1 % of A1				149.87
	LABOUR				
1001	Wireman	day	3.50	806.00	2821.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	4.25	663.00	2817.75
	TOTAL				**21330.19**
	Add 12% GST (MF= 0.1405)				**2996.89**
	TOTAL				**24327.09**
	OVERHEADS & PROFIT @ 15 %				**3649.06**
	TOTAL				**27976.15**
	Rate per meter				559.52
	Say				**560.00**

1.7.8 4 X 4 sq. mm + 2 X 4 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	42.00	13362.30
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	93.00	4882.50
1207	25 mm inspection/ solid bends	each	4.00	32.00	128.00
1212	25 mm sockets	each	15.00	9.00	135.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	4.00	4.00
	Total cost of materials				**19438.30**
	Cartage @ 1 % of A1				194.38
	LABOUR				
1001	Wireman	day	3.50	806.00	2821.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	4.25	663.00	2817.75
	TOTAL				**25825.60**
	Add 12% GST (MF= 0.1405)				**3628.50**
	TOTAL				**29454.10**
	OVERHEADS & PROFIT @ 15 %				**4418.12**
	TOTAL				**33872.22**
	Rate per meter				677.44
	Say				**677.00**

1.7.9 4 X 6 sq. mm + 2 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	63.00	20043.45
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	130.00	6825.00
1208	32 mm inspection/ solid bends	each	4.00	60.00	240.00
1213	32 mm sockets	each	15.00	13.00	195.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	16.00	1360.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**28747.15**
	Cartage @ 1 % of A1				287.47
	LABOUR				
1001	Wireman	day	3.50	806.00	2821.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	4.25	663.00	2817.75

	TOTAL				**35227.54**
	Add 12% GST (MF= 0.1405)				**4949.47**
	TOTAL				**40177.01**
	OVERHEADS & PROFIT @ 15 %				**6026.55**
	TOTAL				**46203.56**
	Rate per meter				924.07
	Say				**924.00**

1.7.10 4 X 10 sq. mm + 2 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x4=202.0+10.1(Wastage @ 5%) =212.10 m	meter	212.10	106.00	22482.60
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x2=101.0+5.05 (Wastage @ 5%) =106.05 m	meter	106.05	63.00	6681.15
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	130.00	6825.00
1208	32 mm inspection/ solid bends	each	4.00	60.00	240.00
1213	32 mm sockets	each	15.00	13.00	195.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	16.00	1360.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**37867.45**
	Cartage @ 1 % of A1				378.67
	LABOUR				
1001	Wireman	day	3.50	806.00	2821.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	4.25	663.00	2817.75
	TOTAL				**44439.04**
	Add 12% GST (MF= 0.1405)				**6243.69**
	TOTAL				**50682.73**
	OVERHEADS & PROFIT @ 15 %				**7602.41**
	TOTAL				**58285.14**
	Rate per meter				1165.70
	Say				**1166.00**

1.7.11 4 X 16 sq. mm + 2 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x4=202.0+10.1(Wastage @ 5%) =212.10 m	meter	212.10	164.00	34784.40
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x2=101.0+5.05 (Wastage @ 5%) =106.05 m	meter	106.05	63.00	6681.15
1204	40 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	218.00	11445.00
1209	40 mm inspection/ solid bends	each	4.00	85.00	340.00
1214	40 mm sockets	each	15.00	20.00	300.00
1221	40 mm iron staples/ saddles/ screws	each	85.00	19.00	1615.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**55249.25**
	Cartage @ 1 % of A1				552.49
	LABOUR				
1001	Wireman	day	4.00	806.00	3224.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.01	734.00	3.67
1007	Khallasi	day	4.75	663.00	3149.25
	TOTAL				**62729.16**
	Add 12% GST (MF= 0.1405)				**8813.45**
	TOTAL				**71542.61**
	OVERHEADS & PROFIT @ 15 %				**10731.39**
	TOTAL				**82274.00**
	Rate per meter				1645.48
	Say				**1645.00**

1.8 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.

1.8.1 Group A

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2X3+1X1.5 = 7.5 + 0.38 (wastage @ 5%) = 7.88m	meter	7.88	18.00	141.84
1224	20 mm dia. ISI marked, PVC conduit = 2.5 + 0.13 (wastage @ 5%) = 2.63m	meter	2.63	21.00	55.23
1229	20 mm PVC bends	each	1.00	8.00	8.00
1234	20 mm PVC couplers	each	0.00	6.00	0.00

1218	20 mm iron staples/ saddles/ screws	each	4.00	8.00	32.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.90	7.20
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	23.00	23.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.20	14.40
1239	20 mm PVC junction box, one way	each	1.00	18.00	18.00
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**320.47**
	Cartage @ 1 % of A1				3.20
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**757.17**
	Add 12% GST (MF= 0.1405)				**106.38**
	TOTAL				**863.56**
	OVERHEADS & PROFIT @ 15 %				**129.53**
	TOTAL				**993.09**
	Rate per point				993.09
	Say				**993.00**

1.8.2 Group B

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x4+1x2 = 10 + 0.5 (wastage @ 5%) = 10.5m	meter	10.50	18.00	189.00
1224	20 mm dia. ISI marked, PVC conduit = 3.5 + 0.18 (wastage @ 5%) = 3.68m	meter	3.68	21.00	77.28
1229	20 mm PVC bends	each	1.00	8.00	8.00
1234	20 mm PVC couplers	each	2.00	6.00	12.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.90	7.20
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	23.00	23.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.20	14.40
1239	20 mm PVC junction box, one way	each	1.00	18.00	18.00
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	each	9.00	0.90	8.10

2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**446.18**
	Cartage @ 1 % of A1				4.46
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**884.14**
	Add 12% GST (MF= 0.1405)				**124.22**
	TOTAL				**1008.36**
	OVERHEADS & PROFIT @ 15 %				**151.25**
	TOTAL				**1159.61**
	Rate per point				1159.61
	Say				**1160.00**

1.8.3 Group C

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	18.00	236.70
1224	20 mm dia. ISI marked, PVC conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	21.00	99.33
1229	20 mm PVC bends	each	1.00	8.00	8.00
1234	20 mm PVC couplers	each	2.00	6.00	12.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.90	7.20
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	23.00	23.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.20	14.40
1239	20 mm PVC junction box, one way	each	1.00	18.00	18.00
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**515.93**
	Cartage @ 1 % of A1				5.16
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**1101.49**
	Add 12% GST (MF= 0.1405)				**154.76**
	TOTAL				**1256.25**
	OVERHEADS & PROFIT @ 15 %				**188.44**

1218	**TOTAL**	**1444.69**
	Rate per point	1444.69
	Say	**1445.00**

1.9 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	18.00	236.70
1224	20 mm dia. ISI marked, PVC conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	21.00	99.33
1229	20 mm PVC bends	each	1.00	8.00	8.00
1234	20 mm PVC couplers	each	2.00	6.00	12.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.90	7.20
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	23.00	23.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.20	14.40
1239	20 mm PVC junction box, one way	each	1.00	18.00	18.00
1432	S.P. 5/6 A, two way switch, piano type ISI marked	each	1.00	19.00	19.00
2857	PVC fastener 40mm long	each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**524.93**
	Cartage @ 1 % of A1				5.25
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**1110.58**
	Add 12% GST (MF= 0.1405)				**156.04**
	TOTAL				**1266.62**
	OVERHEADS & PROFIT @ 15 %				**189.99**
	TOTAL				**1456.61**
	Rate per point				1456.61
	Say				**1457.00**

1.10 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.

1.10.1 Group A

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2X3+1X1.5 = 7.5 + 0.38 (wastage @ 5%) = 7.88m	meter	7.88	18.00	141.84
1224	20 mm dia. ISI marked, PVC conduit = 2.5 + 0.13 (wastage @ 5%) = 2.63m	meter	2.63	21.00	55.23
1229	20 mm PVC bends	each	1.00	8.00	8.00
1234	20 mm PVC couplers	each	0.00	6.00	0.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	8.00	32.00
1239	20 mm PVC junction box, one way	each	1.00	18.00	18.00
1300	Modular GI box for 2 module	each	0.50	33.00	16.50
1421	Modular base & cover plate for 2 module	each	0.50	42.00	21.00
1402	S.P. 5/6 A, one way modular switch ISI marked	each	1.00	34.00	34.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**337.37**
	Cartage @ 1 % of A1				3.37
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**774.24**
	Add 12% GST (MF= 0.1405)				**108.78**
	TOTAL				**883.02**
	OVERHEADS & PROFIT @ 15 %				**132.45**
	TOTAL				**1015.47**
	Rate per point				1015.47
	Say				**1015.00**

1.10.2 Group B

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x4+1x2 = 10 + 0.5 (wastage @ 5%) = 10.5m	meter	10.50	18.00	189.00
1224	20 mm dia. ISI marked, PVC conduit = 3.5 + 0.18 (wastage @ 5%) = 3.68m	meter	3.68	21.00	77.28
1229	20 mm PVC bends	each	1.00	8.00	8.00
1234	20 mm PVC couplers	each	2.00	6.00	12.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
1239	20 mm PVC junction box, one way	each	1.00	18.00	18.00
1300	Modular GI box for 2 module	each	0.50	33.00	16.50
1421	Modular base & cover plate for 2 module	each	0.50	42.00	21.00
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	34.00	34.00
2857	PVC fastener 40mm long	each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**463.08**
	Cartage @ 1 % of A1				4.63
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**901.21**
	Add 12% GST (MF= 0.1405)				**126.62**
	TOTAL				**1027.83**
	OVERHEADS & PROFIT @ 15 %				**154.17**
	TOTAL				**1182.00**
	Rate per point				1182.00
	Say				**1182.00**

1.10.3 Group C

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	18.00	236.70
1224	20 mm dia. ISI marked, PVC conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	21.00	99.33
1229	20 mm PVC bends	each	1.00	8.00	8.00
1234	20 mm PVC couplers	each	2.00	6.00	12.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
1239	20 mm PVC junction box, one way	each	1.00	18.00	18.00
1300	Modular GI box for 2 module	each	0.50	33.00	16.50
1421	Modular base & cover plate for 2 module	each	0.50	42.00	21.00
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	34.00	34.00

2857	PVC fastener 40mm long	each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**532.83**
	Cartage @ 1 % of A1				5.33
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**1118.56**
	Add 12% GST (MF= 0.1405)				**157.16**
	TOTAL				**1275.72**
	OVERHEADS & PROFIT @ 15 %				**191.36**
	TOTAL				**1467.08**
	Rate per point				1467.08
	Say				**1467.00**

1.11 Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	18.00	236.70
1224	20 mm dia. ISI marked, PVC conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	meter	4.73	21.00	99.33
1229	20 mm PVC bends	each	1.00	8.00	8.00
1234	20 mm PVC couplers	each	2.00	6.00	12.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	8.00	72.00
1239	20 mm PVC junction box, one way	each	1.00	18.00	18.00
1240	20 mm PVC junction box, two way	each	2.00	19.00	38.00
1300	Modular GI box for 2 module	each	0.50	33.00	16.50
1421	Modular base & cover plate for 2 module	each	0.50	42.00	21.00
1403	S.P. 5/6 A, two way modular switch, ISI marked	each	1.00	68.00	68.00
2857	PVC fastener 40mm long	each	9.00	0.90	8.10
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**604.83**
	Cartage @ 1 % of A1				6.05
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**1191.28**
	Add 12% GST (MF= 0.1405)				**167.37**

	TOTAL	**1358.65**
	OVERHEADS & PROFIT @ 15 %	**203.80**
	TOTAL	**1562.45**
	Rate per point	1562.45
	Say	**1562.00**

1.12 Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	42.00	6681.36
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	21.00	1102.50
1229	20 mm PVC bends	each	4.00	8.00	32.00
1234	20 mm PVC couplers	each	15.00	6.00	90.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	8.00	680.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**8669.56**
	Cartage @ 1 % of A1				86.70
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.75	663.00	1823.25
	TOTAL				**12742.01**
	Add 12% GST (MF= 0.1405)				**1790.25**
	TOTAL				**14532.26**
	OVERHEADS & PROFIT @ 15 %				**2179.84**
	TOTAL				**16712.10**
	Rate per meter				334.24
	Say				**334.00**

1.13 Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	42.00	13362.30
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	29.00	1522.50
1230	25 mm PVC bends	each	4.00	11.00	44.00
1235	25 mm PVC couplers	each	15.00	7.00	105.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**15967.50**
	Cartage @ 1 % of A1				159.68
	LABOUR				
1001	Wireman	day	2.25	806.00	1813.50
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**20480.18**
	Add 12% GST (MF= 0.1405)				**2877.46**
	TOTAL				**23357.64**
	OVERHEADS & PROFIT @ 15 %				**3503.65**
	TOTAL				**26861.29**
	Rate per meter				537.23
	Say				**537.00**

1.14 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required

1.14.1 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	18.00	2863.44
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	21.00	1102.50
1229	20 mm PVC bends	each	4.00	8.00	32.00
1234	20 mm PVC couplers	each	15.00	6.00	90.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	8.00	680.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**4851.64**
	Cartage @ 1 % of A1				48.52
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50

1007	Khallasi	Day	2.75	663.00	**1823.25**
	TOTAL				**8885.91**
	Add 12% GST (MF= 0.1405)				**1248.47**
	TOTAL				**10134.38**
	OVERHEADS & PROFIT @ 15 %				**1520.16**
	TOTAL				**11654.54**
	Rate per meter				233.09
	Say				**233.00**

1.14.2 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	28.00	4454.24
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	21.00	1102.50
1229	20 mm PVC bends	each	4.00	8.00	32.00
1234	20 mm PVC couplers	each	15.00	6.00	90.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	8.00	680.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**6442.44**
	Cartage @ 1 % of A1				64.42
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.75	663.00	1823.25
	TOTAL				**10492.61**
	Add 12% GST (MF= 0.1405)				**1474.21**
	TOTAL				**11966.83**
	OVERHEADS & PROFIT @ 15 %				**1795.02**
	TOTAL				**13761.85**
	Rate per meter				275.24
	Say				**275.00**

1.14.3 2 X 4 sq. mm + 1 X 4 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	42.00	6681.36

1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	21.00	1102.50
1229	20 mm PVC bends	each	4.00	8.00	32.00
1234	20 mm PVC couplers	each	15.00	6.00	90.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	8.00	680.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**8669.56**
	Cartage @ 1 % of A1				86.70
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.75	663.00	1823.25
	TOTAL				**12742.01**
	Add 12% GST (MF= 0.1405)				**1790.25**
	TOTAL				**14532.26**
	OVERHEADS & PROFIT @ 15 %				**2179.84**
	TOTAL				**16712.10**
	Rate per meter				334.24
	Say				**334.00**

1.14.4 2 X 6 sq. mm + 1 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x3=151.5+7.58(Wastage @ 5%) =159.08m	meter	159.08	63.00	10022.04
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	29.00	1522.50
1230	25 mm PVC bends	each	4.00	11.00	44.00
1235	25 mm PVC couplers	each	15.00	7.00	105.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**12627.24**
	Cartage @ 1 % of A1				126.27
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.75	663.00	1823.25
	TOTAL				**16739.26**
	Add 12% GST (MF= 0.1405)				**2351.87**
	TOTAL				**19091.13**
	OVERHEADS & PROFIT @ 15 %				**2863.67**
	TOTAL				**21954.80**

	Rate per meter				**439.10**
	Say				**439.00**

1.14.5 2 X 10 sq. mm + 1 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x2=101+5.05(Wastage @ 5%) =106.05 m	meter	106.05	106.00	11241.30
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x1=50.5+2.53 (Wastage @ 5%) =53.03 m	meter	53.03	63.00	3340.89
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	29.00	1522.50
1230	25 mm PVC bends	each	4.00	11.00	44.00
1235	25 mm PVC couplers	each	15.00	7.00	105.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**17187.39**
	Cartage @ 1 % of A1				171.87
	LABOUR				
1001	Wireman	day	2.25	806.00	1813.50
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**21712.26**
	Add 12% GST (MF= 0.1405)				**3050.57**
	TOTAL				**24762.84**
	OVERHEADS & PROFIT @ 15 %				**3714.43**
	TOTAL				**28477.27**
	Rate per meter				569.55
	Say				**570.00**

1.14.6 2 X 16 sq. mm + 1 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x2=101+5.05(Wastage @ 5%) =106.05 m	meter	106.05	164.00	17392.20

1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x1=50.5+2.53 (Wastage @ 5%) =53.03 m	meter	53.03	63.00	3340.89
1226	32 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	46.00	2415.00
1231	32 mm PVC bends	each	4.00	18.00	72.00
1236	32 mm PVC couplers	each	15.00	11.00	165.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	16.00	1360.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**24828.79**
	Cartage @ 1 % of A1				248.29
	LABOUR				
1001	Wireman	day	2.25	806.00	1813.50
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**29430.08**
	Add 12% GST (MF= 0.1405)				**4134.93**
	TOTAL				**33565.00**
	OVERHEADS & PROFIT @ 15 %				**5034.75**
	TOTAL				**38599.75**
	Rate per meter				772.00
	Say				**772.00**

1.14.7 4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	28.00	8908.20
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	29.00	1522.50
1230	25 mm PVC bends	each	4.00	11.00	44.00
1235	25 mm PVC couplers	each	15.00	7.00	105.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**11513.40**
	Cartage @ 1 % of A1				115.13
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.75	663.00	1823.25

	TOTAL				**15614.28**
	Add 12% GST (MF= 0.1405)				**2193.81**
	TOTAL				**17808.09**
	OVERHEADS & PROFIT @ 15 %				**2671.21**
	TOTAL				**20479.30**
	Rate per meter				409.59
	Say				**410.00**

1.14.8 4 X 4 sq. mm + 2 X 4 sq. mm earth wire

COST FOR 50 METERS r

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m	meter	318.15	42.00	13362.30
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	29.00	1522.50
1230	25 mm PVC bends	each	4.00	11.00	44.00
1235	25 mm PVC couplers	each	15.00	7.00	105.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**15967.50**
	Cartage @ 1 % of A1				159.68
	LABOUR				
1001	Wireman	day	2.25	806.00	1813.50
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**20480.18**
	Add 12% GST (MF= 0.1405)				**2877.46**
	TOTAL				**23357.64**
	OVERHEADS & PROFIT @ 15 %				**3503.65**
	TOTAL				**26861.29**
	Rate per meter				537.23
	Say				**537.00**

1.14.9 4 X 6 sq. mm + 2 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	**6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x6=303.0+15.15(Wastage @ 5%) =318.15m**	meter	318.15	63.00	20043.45
1226	**32 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m**	meter	52.50	46.00	2415.00

1231	32 mm PVC bends	each	4.00	18.00	72.00
1236	32 mm PVC couplers	each	15.00	11.00	165.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	16.00	1360.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**24139.15**
	Cartage @ 1 % of A1				241.39
	LABOUR				
1001	Wireman	day	2.25	806.00	1813.50
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**28733.54**
	Add 12% GST (MF= 0.1405)				**4037.06**
	TOTAL				**32770.60**
	OVERHEADS & PROFIT @ 15 %				**4915.59**
	TOTAL				**37686.19**
	Rate per meter				753.72
	Say				**754.00**

1.14.104 X 10 sq. mm + 2 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x4=202.0+10.1(Wastage @ 5%) =212.10 m	meter	212.10	106.00	22482.60
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x2=101.0+5.05 (Wastage @ 5%) =106.05 m	meter	106.05	63.00	6681.15
1226	32 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	46.00	2415.00
1231	32 mm PVC bends	each	4.00	18.00	72.00
1236	32 mm PVC couplers	each	15.00	11.00	165.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	16.00	1360.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**33259.45**
	Cartage @ 1 % of A1				332.59
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	3.25	663.00	2154.75
	TOTAL				**38312.29**
	Add 12% GST (MF= 0.1405)				**5382.88**
	TOTAL				**43695.17**

	OVERHEADS & PROFIT @ 15 %				**6554.28**
	TOTAL				**50249.45**
	Rate per meter				1004.99
	Say				**1005.00**

1.14.11 4 X 16 sq. mm + 2 X 6 sq. mm earth wire

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS	r			
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x4=202.0+10.1(Wastage @ 5%) =212.10 m	meter	212.10	164.00	34784.40
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x2=101.0+5.05 (Wastage @ 5%) =106.05 m	meter	106.05	63.00	6681.15
1227	40 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	meter	52.50	64.00	3360.00
1232	40 mm PVC bends	each	4.00	28.00	112.00
1237	40 mm PVC couplers	each	15.00	14.00	210.00
1221	40 mm iron staples/ saddles/ screws	each	85.00	19.00	1615.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**46846.25**
	Cartage @ 1 % of A1				468.46
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	3.25	663.00	2154.75
	TOTAL				**52034.96**
	Add 12% GST (MF= 0.1405)				**7310.91**
	TOTAL				**59345.87**
	OVERHEADS & PROFIT @ 15 %				**8901.88**
	TOTAL				**68247.75**
	Rate per meter				1364.96
	Say				**1365.00**

1.15 Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel conduit including dismantling as required

1.15.1 Group A.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2X3+1X1.5 = 7.5 + 0.38 (wastage @ 5%) = 7.88m	meter	7.88	18.00	141.84
2859	Rubber/ PVC bushes	each	1.00	0.90	0.90
	Total cost of materials				**142.74**
	Cartage @ 1 % of A1				1.43
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**437.97**
	Add 12% GST (MF= 0.1405)				**61.53**
	TOTAL				**499.50**
	OVERHEADS & PROFIT @ 15 %				**74.93**
	TOTAL				**574.43**
	Rate per point				574.43
	Say				**574.00**

1.15.2 Group B

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x4+1x2 = 10 + 0.5 (wastage @ 5%) = 10.5m	meter	10.50	18.00	189.00
2859	Rubber/ PVC bushes	each	1.00	0.90	0.90
	Total cost of materials				**189.90**
	Cartage @ 1 % of A1				1.90
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**485.60**
	Add 12% GST (MF= 0.1405)				**68.23**
	TOTAL				**553.83**
	OVERHEADS & PROFIT @ 15 %				**83.07**
	TOTAL				**636.90**
	Rate per point				636.90
	Say				**637.00**

1.15.3 Group C

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	18.00	236.70
2859	Rubber/ PVC bushes	each	2.00	0.90	1.80
	Total cost of materials				**238.50**
	Cartage @ 1 % of A1				2.39
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**681.59**
	Add 12% GST (MF= 0.1405)				**95.76**
	TOTAL				**777.35**
	OVERHEADS & PROFIT @ 15 %				**116.60**
	TOTAL				**893.95**
	Rate per point				893.95
	Say				**894.00**

1.16 Rewiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel conduit including dismantling as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 2x5+1x2.5 = 12.5 + 0.65 (wastage @ 5%) = 13.15m	meter	13.15	18.00	236.70
2859	Rubber/ PVC bushes	each	2.00	0.90	1.80
	Total cost of materials				**238.50**
	Cartage @ 1 % of A1				2.39
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**681.59**
	Add 12% GST (MF= 0.1405)				**95.76**
	TOTAL				**777.35**
	OVERHEADS & PROFIT @ 15 %				**116.60**
	TOTAL				**893.95**
	Rate per point				893.95
	Say				**894.00**

1.17 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.

1.17.1 1 x 1.5 sq. Mm

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x1=50.5+2.53 (Wastage @ 5%) =53.03m	meter	53.03	18.00	954.54
	Total cost of materials				**954.54**
	Cartage @ 1 % of A1				9.55
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**1698.59**
	Add 12% GST (MF= 0.1405)				**238.65**
	TOTAL				**1937.24**
	OVERHEADS & PROFIT @ 15 %				**290.59**
	TOTAL				**2227.83**
	Rate per meter				44.56
	Say				**45.00**

1.17.2 2 x 1.5 sq. Mm

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2=101+5.05 (Wastage @ 5%) = 106.05m	meter	106.05	18.00	1908.90
	Total cost of materials				1908.90
	Cartage @ 1 % of A1				19.09
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**2662.49**
	Add 12% GST (MF= 0.1405)				**374.08**
	TOTAL				**3036.57**
	OVERHEADS & PROFIT @ 15 %				**455.49**
	TOTAL				**3492.06**
	Rate per meter				69.84
	Say				**70.00**

1.17.3 3 x 1.5 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x3=151.5+7.58 (Wastage @ 5%) =159.08m	meter	159.08	18.00	2863.44
	Total cost of materials				**2863.44**
	Cartage @ 1 % of A1				28.63
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**3626.57**
	Add 12% GST (MF= 0.1405)				**509.53**
	TOTAL				**4136.11**
	OVERHEADS & PROFIT @ 15 %				**620.42**
	TOTAL				**4756.53**
	Rate per meter				95.13
	Say				**95.00**

1.17.4 4 x 1.5 sq. Mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x4 = 202 + 10.1 (Wastage @ 5%) = 212.1m	meter	212.10	18.00	3817.80
	Total cost of materials				**3817.80**
	Cartage @ 1 % of A1				38.18
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**4590.48**
	Add 12% GST (MF= 0.1405)				**644.96**
	TOTAL				**5235.44**
	OVERHEADS & PROFIT @ 15 %				**785.32**
	TOTAL				**6020.76**
	Rate per meter				120.42
	Say				**120.00**

1.17.5 5 x 1.5 sq. Mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x5=252.5+12.63 (Wastage @ 5%) =265.13m	meter	265.13	18.00	4772.34

	Total cost of materials				**4772.34**
	Cartage @ 1 % of A1				47.72
	LABOUR				
1001	Wireman	day	0.75	806.00	604.50
1007	Khallasi	day	0.75	663.00	497.25
	TOTAL				**5921.81**
	Add 12% GST (MF= 0.1405)				**832.01**
	TOTAL				**6753.83**
	OVERHEADS & PROFIT @ 15 %				**1013.07**
	TOTAL				**7766.90**
	Rate per meter				**155.34**
	Say				**155.00**

1.17.6 6 x 1.5 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x6 = 303 + 15.15 (Wastage @ 5%) = 318.15m	meter	318.15	18.00	5726.70
	Total cost of materials				**5726.70**
	Cartage @ 1 % of A1				57.27
	LABOUR				
1001	Wireman	day	0.75	806.00	**604.50**
1007	Khallasi	day	0.75	663.00	**497.25**
	TOTAL				**6885.72**
	Add 12% GST (MF= 0.1405)				**967.44**
	TOTAL				**7853.16**
	OVERHEADS & PROFIT @ 15 %				**1177.97**
	TOTAL				**9031.13**
	Rate per meter				180.62
	Say				**181.00**

1.17.7 7 x 1.5 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x7 = 353.5 + 17.68 (Wastage @ 5%) = 371.18m	meter	371.18	18.00	6681.24

	Total cost of materials				**6681.24**
	Cartage @ 1 % of A1				66.81
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**8217.05**
	Add 12% GST (MF= 0.1405)				**1154.50**
	TOTAL				**9371.55**
	OVERHEADS & PROFIT @ 15 %				**1405.73**
	TOTAL				**10777.28**
	Rate per meter				215.55
	Say				**216.00**

1.17.8 8 x 1.5 sq. Mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x8 = 404 + 20.2 (Wastage @ 5%) = 424.2m	meter	424.20	18.00	7635.60
	Total cost of materials				**7635.60**
	Cartage @ 1 % of A1				76.36
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**9180.96**
	Add 12% GST (MF= 0.1405)				**1289.92**
	TOTAL				**10470.88**
	OVERHEADS & PROFIT @ 15 %				**1570.63**
	TOTAL				**12041.51**
	Rate per meter				**240.83**
	Say				**241.00**

1.17.9 9 x 1.5 sq. Mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x9 = 454.5 + 22.73 (Wastage @ 5%) = 477.23m	meter	477.23	18.00	8590.14
	Total cost of materials				**8590.14**
	Cartage @ 1 % of A1				85.90
	LABOUR				

1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	1.50	663.00	994.50
	TOTAL				**10879.54**
	Add 12% GST (MF= 0.1405)				**1528.58**
	TOTAL				**12408.12**
	OVERHEADS & PROFIT @ 15 %				**1861.22**
	TOTAL				**14269.34**
	Rate per meter				285.39
	Say				**285.00**

1.17.10 10 x 1.5 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x10 = 505 + 25.25 (Wastage @ 5%) = 530.25m	meter	530.25	18.00	9544.50
	Total cost of materials				**9544.50**
	Cartage @ 1 % of A1				95.45
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	1.50	663.00	994.50
	TOTAL				**11843.45**
	Add 12% GST (MF= 0.1405)				**1664.00**
	TOTAL				**13507.45**
	OVERHEADS & PROFIT @ 15 %				**2026.12**
	TOTAL				**15533.57**
	Rate per meter				310.67
	Say				**311.00**

1.17.11 2 x 2.5 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2=101+5.05 (Wastage @ 5%) = 106.05m	meter	106.05	28.00	2969.40
	Total cost of materials				**2969.40**
	Cartage @ 1 % of A1				29.69
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**3733.59**

	Add 12% GST (MF= 0.1405)				**524.57**
	TOTAL				**4258.16**
	OVERHEADS & PROFIT @ 15 %				**638.72**
	TOTAL				**4896.88**
	Rate per meter				97.94
	Say				**98.00**

1.17.12 3 x 2.5 sq. Mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x3=151.5+7.58 (Wastage @ 5%) =159.08m	meter	159.08	28.00	4454.24
	Total cost of materials				**4454.24**
	Cartage @ 1 % of A1				44.54
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**5233.28**
	Add 12% GST (MF= 0.1405)				**735.28**
	TOTAL				**5968.56**
	OVERHEADS & PROFIT @ 15 %				**895.28**
	TOTAL				**6863.84**
	Rate per meter				137.28
	Say				**137.00**

1.17.13 4 x 2.5 sq. Mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x4 = 202 + 10.1 (Wastage @ 5%) = 212.1m	meter	212.10	28.00	5938.80
	Total cost of materials				**5938.80**
	Cartage @ 1 % of A1				59.39
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**6732.69**
	Add 12% GST (MF= 0.1405)				**945.94**
	TOTAL				**7678.63**
	OVERHEADS & PROFIT @ 15 %				**1151.79**
	TOTAL				**8830.42**

	Rate per meter				176.61
	Say				**177.00**

1.17.14 5 x 2.5 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x5=252.5+12.63 (Wastage @ 5%) =265.13m	meter	265.13	28.00	7423.64
	Total cost of materials				**7423.64**
	Cartage @ 1 % of A1				74.24
	LABOUR				
1001	Wireman	day	0.75	806.00	604.50
1007	Khallasi	day	0.75	663.00	497.25
	TOTAL				**8599.63**
	Add 12% GST (MF= 0.1405)				**1208.25**
	TOTAL				**9807.87**
	OVERHEADS & PROFIT @ 15 %				**1471.18**
	TOTAL				**11279.05**
	Rate per meter				225.58
	Say				**226.00**

1.17.15 6 x 2.5 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x6 = 303 + 15.15 (Wastage @ 5%) = 318.15m	meter	318.15	28.00	8908.20
	Total cost of materials				**8908.20**
	Cartage @ 1 % of A1				89.08
	LABOUR				
1001	Wireman	day	0.75	806.00	604.50
1007	Khallasi	day	0.75	663.00	497.25
	TOTAL				**10099.03**
	Add 12% GST (MF= 0.1405)				**1418.91**
	TOTAL				**11517.95**
	OVERHEADS & PROFIT @ 15 %				**1727.69**
	TOTAL				**13245.64**
	Rate per meter				264.91
	Say				**265.00**

1.17.16 7 x 2.5 sq. Mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x7 = 353.5 + 17.68 (Wastage @ 5%) = 371.18m	meter	371.18	28.00	10393.04
	Total cost of materials				**10393.04**
	Cartage @ 1 % of A1				103.93
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**11965.97**
	Add 12% GST (MF= 0.1405)				**1681.22**
	TOTAL				**13647.19**
	OVERHEADS & PROFIT @ 15 %				**2047.08**
	TOTAL				**15694.27**
	Rate per meter				313.89
	Say				**314.00**

1.17.17 8 x 2.5 sq. Mm

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x8 = 404 + 20.2 (Wastage @ 5%) = 424.2m	meter	424.20	28.00	11877.60
	Total cost of materials				**11877.60**
	Cartage @ 1 % of A1				118.78
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**13465.38**
	Add 12% GST (MF= 0.1405)				**1891.89**
	TOTAL				**15357.26**
	OVERHEADS & PROFIT @ 15 %				**2303.59**
	TOTAL				**17660.85**
	Rate per meter				353.22
	Say				**353.00**

1.17.18 9 x 2.5 sq. mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x9 = 454.5 + 22.73 (Wastage @ 5%) = 477.23m	meter	477.23	28.00	13362.44
	Total cost of materials				**13362.44**
	Cartage @ 1 % of A1				133.62
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	1.50	663.00	994.50
	TOTAL				**15699.56**
	Add 12% GST (MF= 0.1405)				**2205.79**
	TOTAL				**17905.35**
	OVERHEADS & PROFIT @ 15 %				**2685.80**
	TOTAL				**20591.15**
	Rate per meter				411.82
	Say				**412.00**

1.17.19 10 x 2.5 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x10 = 505 + 25.25 (Wastage @ 5%) = 530.25m	meter	530.25	28.00	14847.00
	Total cost of materials				**14847.00**
	Cartage @ 1 % of A1				148.47
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	1.50	663.00	994.50
	TOTAL				**17198.97**
	Add 12% GST (MF= 0.1405)				**2416.46**
	TOTAL				**19615.43**
	OVERHEADS & PROFIT @ 15 %				**2942.31**
	TOTAL				**22557.74**
	Rate per meter				451.15
	Say				**451.00**

1.17.20 2 x 4 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2=101+5.05 (Wastage @ 5%) = 106.05m	meter	106.05	42.00	4454.10
	Total cost of materials				**4454.10**
	Cartage @ 1 % of A1				44.54
	LABOUR				
1001	Wireman	day	0.75	806.00	604.50
1007	Khallasi	day	0.75	663.00	497.25
	TOTAL				**5600.39**
	Add 12% GST (MF= 0.1405)				**786.85**
	TOTAL				**6387.25**
	OVERHEADS & PROFIT @ 15 %				**958.09**
	TOTAL				**7345.34**
	Rate per meter				146.91
	Say				**147.00**

1.17.213 x 4 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x3=151.5+7.58 (Wastage @ 5%) =159.08m	meter	159.08	42.00	6681.36
	Total cost of materials				**6681.36**
	Cartage @ 1 % of A1				66.81
	LABOUR				
1001	Wireman	day	0.75	806.00	604.50
1007	Khallasi	day	0.75	663.00	497.25
	TOTAL				**7849.92**
	Add 12% GST (MF= 0.1405)				**1102.91**
	TOTAL				**8952.84**
	OVERHEADS & PROFIT @ 15 %				**1342.93**
	TOTAL				**10295.77**
	Rate per meter				205.92
	Say				**206.00**

1.17.22 4 x 4 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x4 = 202 + 10.1 (Wastage @ 5%) = 212.1m	meter	212.10	42.00	8908.20
	Total cost of materials				**8908.20**
	Cartage @ 1 % of A1				89.08
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**10466.28**
	Add 12% GST (MF= 0.1405)				**1470.51**
	TOTAL				**11936.79**
	OVERHEADS & PROFIT @ 15 %				**1790.52**
	TOTAL				**13727.31**
	Rate per meter				274.55
	Say				**275.00**

1.17.23 5 x 4 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x5=252.5+12.63 (Wastage @ 5%) =265.13m	meter	265.13	42.00	11135.46
	Total cost of materials				**11135.46**
	Cartage @ 1 % of A1				111.35
	LABOUR				
1001	Wireman	day	1.10	806.00	886.60
1007	Khallasi	day	1.10	663.00	729.30
	TOTAL				**12862.71**
	Add 12% GST (MF= 0.1405)				**1807.21**
	TOTAL				**14669.93**
	OVERHEADS & PROFIT @ 15 %				**2200.49**
	TOTAL				**16870.42**
	Rate per meter				337.41
	Say				**337.00**

1.17.24 6 x 4 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x6 = 303 + 15.15 (Wastage @ 5%) = 318.15m	meter	318.15	42.00	13362.30
	Total cost of materials				**13362.30**
	Cartage @ 1 % of A1				133.62
	LABOUR				
1001	Wireman	day	1.10	806.00	886.60
1007	Khallasi	day	1.10	663.00	729.30
	TOTAL				**15111.82**
	Add 12% GST (MF= 0.1405)				**2123.21**
	TOTAL				**17235.03**
	OVERHEADS & PROFIT @ 15 %				**2585.26**
	TOTAL				**19820.29**
	Rate per meter				396.41
	Say				**396.00**

1.17.25 7 x 4 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x7 = 353.5 + 17.68 (Wastage @ 5%) = 371.18m	meter	371.18	42.00	15589.56
	Total cost of materials				**15589.56**
	Cartage @ 1 % of A1				155.90
	LABOUR				
1001	Wireman	day	1.15	806.00	926.90
1007	Khallasi	day	1.15	663.00	762.45
	TOTAL				**17434.81**
	Add 12% GST (MF= 0.1405)				**2449.59**
	TOTAL				**19884.40**
	OVERHEADS & PROFIT @ 15 %				**2982.66**
	TOTAL				**22867.06**
	Rate per meter				457.34
	Say				**457.00**

1.17.26 8 x 4 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x8 = 404 + 20.2 (Wastage @ 5%) = 424.2m	meter	424.20	42.00	17816.40
	Total cost of materials				**17816.40**
	Cartage @ 1 % of A1				178.16
	LABOUR				
1001	Wireman	day	1.15	806.00	926.90
1007	Khallasi	day	1.15	663.00	762.45
	TOTAL				**19683.91**
	Add 12% GST (MF= 0.1405)				**2765.59**
	TOTAL				**22449.50**
	OVERHEADS & PROFIT @ 15 %				**3367.43**
	TOTAL				**25816.93**
	Rate per meter				516.34
	Say				**516.00**

1.17.27 9 x 4 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x9 = 454.5 + 22.73 (Wastage @ 5%) = 477.23m	meter	477.23	42.00	20043.66
	Total cost of materials				**20043.66**
	Cartage @ 1 % of A1				200.44
	LABOUR				
1001	Wireman	day	1.25	806.00	1007.50
1007	Khallasi	day	1.25	663.00	828.75
	TOTAL				**22080.35**
	Add 12% GST (MF= 0.1405)				**3102.29**
	TOTAL				**25182.64**
	OVERHEADS & PROFIT @ 15 %				**3777.40**
	TOTAL				**28960.04**
	Rate per meter				579.20
	Say				**579.00**

1.17.28 10 x 4 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x10 = 505 + 25.25 (Wastage @ 5%) = 530.25m	meter	530.25	42.00	22270.50
	Total cost of materials				**22270.50**
	Cartage @ 1 % of A1				222.71
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	1.50	663.00	994.50
	TOTAL				**24696.71**
	Add 12% GST (MF= 0.1405)				**3469.89**
	TOTAL				**28166.59**
	OVERHEADS & PROFIT @ 15 %				**4224.99**
	TOTAL				**32391.58**
	Rate per meter				647.83
	Say				**648.00**

1.17.29 2 x 6 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x2=101+5.05 (Wastage @ 5%) = 106.05m	meter	106.05	63.00	6681.15
	Total cost of materials				**6681.15**
	Cartage @ 1 % of A1				66.81
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**8216.96**
	Add 12% GST (MF= 0.1405)				**1154.48**
	TOTAL				**9371.44**
	OVERHEADS & PROFIT @ 15 %				**1405.72**
	TOTAL				**10777.16**
	Rate per meter				215.54
	Say				**216.00**

1.17.30 3 x 6 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x3=151.5+7.58 (Wastage @ 5%) =159.08m	meter	159.08	63.00	10022.04
	Total cost of materials				**10022.04**
	Cartage @ 1 % of A1				100.22
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**11591.26**
	Add 12% GST (MF= 0.1405)				**1628.57**
	TOTAL				**13219.83**
	OVERHEADS & PROFIT @ 15 %				**1982.97**
	TOTAL				**15202.80**
	Rate per meter				304.06
	Say				**304.00**

1.17.31 4 x 6 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x4 = 202 + 10.1 (Wastage @ 5%) = 212.1m	meter	212.10	63.00	13362.30
	Total cost of materials				**13362.30**
	Cartage @ 1 % of A1				133.62
	LABOUR				
1001	Wireman	day	1.25	806.00	1007.50
1007	Khallasi	day	1.25	663.00	828.75
	TOTAL				**15332.17**
	Add 12% GST (MF= 0.1405)				**2154.17**
	TOTAL				**17486.34**
	OVERHEADS & PROFIT @ 15 %				**2622.95**
	TOTAL				**20109.29**
	Rate per meter				402.19
	Say				**402.00**

1.17.32 5 x 6 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x5=252.5+12.63 (Wastage @ 5%) =265.13m	meter	265.13	63.00	16703.19
	Total cost of materials				**16703.19**
	Cartage @ 1 % of A1				167.03
	LABOUR				
1001	Wireman	day	1.25	806.00	1007.50
1007	Khallasi	day	1.25	663.00	828.75
	TOTAL				**18706.47**
	Add 12% GST (MF= 0.1405)				**2628.26**
	TOTAL				**21334.73**
	OVERHEADS & PROFIT @ 15 %				**3200.21**
	TOTAL				**24534.94**
	Rate per meter				490.70
	Say				**491.00**

1.17.33 6 x 6 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x6 = 303 + 15.15 (Wastage @ 5%) = 318.15m	meter	318.15	63.00	20043.45
	Total cost of materials				**20043.45**
	Cartage @ 1 % of A1				200.43
	LABOUR				
1001	Wireman	day	1.75	806.00	1410.50
1007	Khallasi	day	1.75	663.00	1160.25
	TOTAL				**22814.63**
	Add 12% GST (MF= 0.1405)				**3205.46**
	TOTAL				**26020.09**
	OVERHEADS & PROFIT @ 15 %				**3903.01**
	TOTAL				**29923.10**
	Rate per meter				598.46
	Say				**598.00**

1.17.34 7 x 6 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x7 = 353.5 + 17.68 (Wastage @ 5%) = 371.18m	meter	371.18	63.00	23384.34
	Total cost of materials				**23384.34**
	Cartage @ 1 % of A1				233.84
	LABOUR				
1001	Wireman	day	1.75	806.00	1410.50
1007	Khallasi	day	1.75	663.00	1160.25
	TOTAL				**26188.93**
	Add 12% GST (MF= 0.1405)				**3679.55**
	TOTAL				**29868.48**
	OVERHEADS & PROFIT @ 15 %				**4480.27**
	TOTAL				**34348.75**
	Rate per meter				686.97
	Say				**687.00**

1.17.35 8 x 6 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x8 = 404 + 20.2 (Wastage @ 5%) = 424.2m	meter	424.20	63.00	26724.60
	Total cost of materials				**26724.60**
	Cartage @ 1 % of A1				267.25
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**29929.85**
	Add 12% GST (MF= 0.1405)				**4205.14**
	TOTAL				**34134.99**
	OVERHEADS & PROFIT @ 15 %				**5120.25**
	TOTAL				**39255.24**
	Rate per meter				785.10
	Say				**785.00**

1.17.36 9 x 6 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x9 = 454.5 + 22.73 (Wastage @ 5%) = 477.23m	meter	477.23	63.00	30065.49
	Total cost of materials				**30065.49**
	Cartage @ 1 % of A1				300.65
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**33304.14**
	Add 12% GST (MF= 0.1405)				**4679.23**
	TOTAL				**37983.38**
	OVERHEADS & PROFIT @ 15 %				**5697.51**
	TOTAL				**43680.89**
	Rate per meter				873.62
	Say				**874.00**

1.17.37 10 x 6 sq. Mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 50.5x10 = 505 + 25.25 (Wastage @ 5%) = 530.25m	meter	530.25	63.00	33405.75
	Total cost of materials				**33405.75**
	Cartage @ 1 % of A1				334.06
	LABOUR				
1001	Wireman	day	2.13	806.00	1716.78
1007	Khallasi	day	2.13	663.00	1412.19
	TOTAL				**36868.78**
	Add 12% GST (MF= 0.1405)				**5180.06**
	TOTAL				**42048.84**
	OVERHEADS & PROFIT @ 15 %				**6307.33**
	TOTAL				**48356.17**
	Rate per meter				967.12
	Say				**967.00**

1.18 Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.

1.18.1 1 Pair

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1111	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable = 50.5x1 = 50.5 + 2.53 (Wastage @ 5%) = 53.03m	meter	53.03	8.00	424.24
	Total cost of materials				**424.24**
	Cartage @ 1 % of A1				4.24
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**1162.98**
	Add 12% GST (MF= 0.1405)				**163.40**
	TOTAL				**1326.38**
	OVERHEADS & PROFIT @ 15 %				**198.96**
	TOTAL				**1525.34**
	Rate per meter				30.51
	Say				**31.00**

1.18.2 2 Pair

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1112	2 pair,0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable= 50.5x1 = 50.5 + 2.53 (Wastage @ 5%) = 53.03m	meter	53.03	13.00	689.39
	Total cost of materials				**689.39**
	Cartage @ 1 % of A1				6.89
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**1430.78**
	Add 12% GST (MF= 0.1405)				**201.03**
	TOTAL				**1631.81**
	OVERHEADS & PROFIT @ 15 %				**244.77**
	TOTAL				**1876.58**
	Rate per meter				37.53
	Say				**38.00**

1.18.3 4 Pair

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1113	4 pair,0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable=50.5x1 = 50.5 + 2.53 (Wastage @ 5%) = 53.03m	meter	53.03	25.00	1325.75
	Total cost of materials				**1325.75**
	Cartage @ 1 % of A1				13.26
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**2073.51**
	Add 12% GST (MF= 0.1405)				**291.33**
	TOTAL				**2364.84**
	OVERHEADS & PROFIT @ 15 %				**354.73**
	TOTAL				**2719.57**
	Rate per meter				54.39
	Say				**54.00**

1.19 Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1114	Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath=50.5x1=50.5 + 2.53 (Wastage @ 5%) = 53.03m	meter	53.03	20.00	1060.60
	Total cost of materials				**1060.60**
	Cartage @ 1 % of A1				10.61
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**1805.71**
	Add 12% GST (MF= 0.1405)				**253.70**
	TOTAL				**2059.41**
	OVERHEADS & PROFIT @ 15 %				**308.91**
	TOTAL				**2368.32**
	Rate per meter				47.37
	Say				**47.00**

1.20 Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.

1.20.1 20 mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1201	20 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	73.00	3832.50
1206	20 mm inspection/ solid bends	each	4.00	24.00	96.00
1211	20 mm sockets	each	15.00	8.00	120.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	8.00	680.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	LS	1.00	7.20	7.20
	Total cost of materials				**4812.20**
	Cartage @ 1 % of A1				48.12
	LABOUR				
1001	Wireman	day	1.75	806.00	1410.50
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	2.50	663.00	1657.50
	TOTAL				**8482.49**
	Add 12% GST (MF= 0.1405)				**1191.79**
	TOTAL				**9674.28**
	OVERHEADS & PROFIT @ 15 %				**1451.14**
	TOTAL				**11125.42**
	Rate per meter				222.51
	Say				**223.00**

1.20.2 25 mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	93.00	4882.50
1207	25 mm inspection/ solid bends	each	4.00	32.00	128.00
1212	25 mm sockets	each	15.00	9.00	135.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	LS	1.00	7.20	7.20
	Total cost of materials				**6079.20**
	Cartage @ 1 % of A1				60.79
	LABOUR				
1001	Wireman	day	1.75	806.00	1410.50
1010	Mason, Grade 2	day	0.75	734.00	550.50

1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	2.50	663.00	1657.50
	TOTAL				**9762.16**
	Add 12% GST (MF= 0.1405)				**1371.58**
	TOTAL				**11133.75**
	OVERHEADS & PROFIT @ 15 %				**1670.06**
	TOTAL				**12803.81**
	Rate per meter				256.08
	Say				**256.00**

1.20.3 32 mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	130.00	6825.00
1208	32 mm inspection/ solid bends	each	4.00	60.00	240.00
1213	32 mm sockets	each	15.00	13.00	195.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	16.00	1360.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	LS	1.00	7.20	7.20
	Total cost of materials				**8703.70**
	Cartage @ 1 % of A1				87.04
	LABOUR				
1001	Wireman	day	1.75	806.00	1410.50
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	2.50	663.00	1657.50
	TOTAL				**12412.91**
	Add 12% GST (MF= 0.1405)				**1744.01**
	TOTAL				**14156.92**
	OVERHEADS & PROFIT @ 15 %				**2123.54**
	TOTAL				**16280.46**
	Rate per meter				325.61
	Say				**326.00**

1.20.4 40 mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1204	40 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	218.00	11445.00
1209	40 mm inspection/ solid bends	each	4.00	85.00	340.00

1214	40 mm sockets	each	15.00	20.00	300.00
1221	40 mm iron staples/ saddles/ screws	each	85.00	19.00	1615.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	LS	1.00	7.20	7.20
	Total cost of materials				**13783.70**
	Cartage @ 1 % of A1				137.84
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	2.75	663.00	1823.25
	TOTAL				**17910.96**
	Add 12% GST (MF= 0.1405)				**2516.49**
	TOTAL				**20427.45**
	OVERHEADS & PROFIT @ 15 %				**3064.12**
	TOTAL				**23491.57**
	Rate per meter				469.83
	Say				**470.00**

1.20.5 50 mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1205	50 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	285.00	14962.50
1210	50 mm inspection/ solid bends	each	4.00	160.00	640.00
1215	50 mm sockets	each	15.00	36.00	540.00
1222	50 mm iron staples/ saddles/ screws	each	85.00	22.00	1870.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	LS	1.00	7.20	7.20
	Total cost of materials				**18096.20**
	Cartage @ 1 % of A1				180.96
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	2.75	663.00	1823.25
	TOTAL				**22266.58**
	Add 12% GST (MF= 0.1405)				**3128.45**
	TOTAL				**25395.04**
	OVERHEADS & PROFIT @ 15 %				**3809.26**
	TOTAL				**29204.30**
	Rate per meter				584.09
	Say				**584.00**

1.21 Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.

1.21.1 20 mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	21.00	1102.50
1229	20 mm PVC bends	each	4.00	8.00	32.00
1234	20 mm PVC couplers	each	15.00	6.00	90.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	8.00	680.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	LS	1.00	7.20	7.20
	Total cost of materials				**1988.20**
	Cartage @ 1 % of A1				19.88
	LABOUR				
1001	Wireman	day	1.25	806.00	1007.50
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**4892.08**
	Add 12% GST (MF= 0.1405)				**687.34**
	TOTAL				**5579.42**
	OVERHEADS & PROFIT @ 15 %				**836.91**
	TOTAL				**6416.33**
	Rate per meter				128.33
	Say				**128.00**

1.21.2 25 mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	29.00	1522.50
1230	25 mm PVC bends	each	4.00	11.00	44.00
1235	25 mm PVC couplers	each	15.00	7.00	105.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	10.00	850.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	LS	1.00	7.20	7.20
	Total cost of materials				**2605.20**
	Cartage @ 1 % of A1				26.05
	LABOUR				
1001	Wireman	day	1.25	806.00	1007.50
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.00	663.00	1326.00

	TOTAL	**5515.25**
	Add 12% GST (MF= 0.1405)	**774.89**
	TOTAL	**6290.14**
	OVERHEADS & PROFIT @ 15 %	**943.52**
	TOTAL	**7233.66**
	Rate per meter	144.67
	Say	**145.00**

1.21.3 32 mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1226	32 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	46.00	2415.00
1231	32 mm PVC bends	each	4.00	18.00	72.00
1236	32 mm PVC couplers	each	15.00	11.00	165.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	16.00	1360.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	LS	1.00	7.20	7.20
	Total cost of materials				**4095.70**
	Cartage @ 1 % of A1				40.96
	LABOUR				
1001	Wireman	day	1.25	806.00	1007.50
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**7020.66**
	Add 12% GST (MF= 0.1405)				**986.40**
	TOTAL				**8007.06**
	OVERHEADS & PROFIT @ 15 %				**1201.06**
	TOTAL				**9208.12**
	Rate per meter				184.16
	Say				**184.00**

1.21.4 40 mm

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1227	40 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	64.00	3360.00
1232	40 mm PVC bends	each	4.00	28.00	112.00
1237	40 mm PVC couplers	each	15.00	14.00	210.00
1221	40 mm iron staples/ saddles/ screws	each	85.00	19.00	1615.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	LS	1.00	7.20	7.20

	Total cost of materials				**5380.70**
	Cartage @ 1 % of A1				53.81
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.25	663.00	1491.75
	TOTAL				**8685.76**
	Add 12% GST (MF= 0.1405)				**1220.35**
	TOTAL				**9906.11**
	OVERHEADS & PROFIT @ 15 %				**1485.92**
	TOTAL				**11392.03**
	Rate per meter				227.84
	Say				**228.00**

1.21.5 50 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1228	50 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	meter	52.50	97.00	5092.50
1233	50 mm PVC bends	each	4.00	47.00	188.00
1238	50 mm PVC couplers	each	15.00	18.00	270.00
1222	50 mm iron staples/ saddles/ screws	each	85.00	22.00	1870.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
2935	Cement, paint, sand etc.	LS	1.00	7.20	7.20
	Total cost of materials				7504.20
	Cartage @ 1 % of A1				75.04
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.25	663.00	1491.75
	TOTAL				**10830.49**
	Add 12% GST (MF= 0.1405)				**1521.68**
	TOTAL				**12352.18**
	OVERHEADS & PROFIT @ 15 %				**1852.83**
	TOTAL				**14205.01**
	Rate per meter				284.10
	Say				**284.00**

1.22 Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required.

1.22.1 75 mm X 75 mm X 60 mm deep

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	23.00	23.00
1322	3 mm thick phenolic laminated sheet	sqcm	64.00	0.40	25.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.90	1.80
2920	Washers	each	2.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**46.60**
	Cartage @ 1 % of A1				0.47
	LABOUR				
1001	Wireman	day	0.02	806.00	16.12
1010	Mason, Grade 2	day	0.04	734.00	29.36
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**136.00**
	Add 12% GST (MF= 0.1405)				**19.11**
	TOTAL				**155.10**
	OVERHEADS & PROFIT @ 15 %				**23.27**
	TOTAL				**178.37**
	Rate per Each				178.37
	Say				**178.00**

1.22.2 100 mm X 100 mm X 60 mm deep

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1307	100 mm X 100 mm X 60 mm deep metal box	each	1.00	35.00	35.00
1322	3 mm thick phenolic laminated sheet	sqcm	121.00	0.20	24.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.90	1.80
2920	Washers	each	2.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**70.00**
	Cartage @ 1 % of A1				0.70
	LABOUR				
1001	Wireman	day	0.02	806.00	16.12
1010	Mason, Grade 2	day	0.04	734.00	29.36
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**159.63**
	Add 12% GST (MF= 0.1405)				**22.43**
	TOTAL				**182.06**
	OVERHEADS & PROFIT @ 15 %				**27.31**
	TOTAL				**209.37**

	Rate per Each				209.37
	Say				**209.00**

1.22.3 150 mm X 75 mm X 60 mm deep

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1308	150 mm X 75 mm X 60 mm deep metal box	each	1.00	37.00	37.00
1322	3 mm thick phenolic laminated sheet	sqcm	136.00	0.20	27.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.90	1.80
2920	Washers	each	2.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**75.00**
	Cartage @ 1 % of A1				0.75
	LABOUR				
1001	Wireman	day	0.02	806.00	16.12
1010	Mason, Grade 2	day	0.04	734.00	29.36
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**164.68**
	Add 12% GST (MF= 0.1405)				**23.14**
	TOTAL				**187.82**
	OVERHEADS & PROFIT @ 15 %				**28.17**
	TOTAL				**215.99**
	Rate per Each				215.99
	Say				**216.00**

1.22.4 150 mm X 150 mm X 60 mm deep

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1309	150 mm X 150 mm X 60 mm deep metal box	each	1.00	53.00	53.00
1322	3 mm thick phenolic laminated sheet	sqcm	256.00	0.20	51.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**118.60**
	Cartage @ 1 % of A1				1.19
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.05	734.00	36.70

1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.080	663.00	53.04
	TOTAL				**237.38**
	Add 12% GST (MF= 0.1405)				**33.35**
	TOTAL				**270.73**
	OVERHEADS & PROFIT @ 15 %				**40.61**
	TOTAL				**311.34**
	Rate per Each				311.34
	Say				**311.00**

1.22.5 180 mm X 100 mm X 60 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1310	180 mm X 100 mm X 60 mm deep metal box	each	1.00	45.00	45.00
1322	3 mm thick phenolic laminated sheet	sqcm	205.00	0.20	41.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.90	1.80
2920	Washers	each	2.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**96.80**
	Cartage @ 1 % of A1				0.97
	LABOUR				
1001	Wireman	day	0.020	806.00	16.12
1010	Mason, Grade 2	day	0.04	734.00	29.36
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**186.70**
	Add 12% GST (MF= 0.1405)				**26.23**
	TOTAL				**212.93**
	OVERHEADS & PROFIT @ 15 %				**31.94**
	TOTAL				**244.87**
	Rate per Each				244.87
	Say				**245.00**

1.22.6 200 mm X 125 mm X 60 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1311	200 mm X 125 mm X 60 mm deep metal box	each	1.00	56.00	56.00
1322	3 mm thick phenolic laminated sheet	sqcm	284.00	0.20	113.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00

2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**127.20**
	Cartage @ 1 % of A1				1.27
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.05	734.00	36.70
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.080	663.00	53.04
	TOTAL				**246.06**
	Add 12% GST (MF= 0.1405)				**34.57**
	TOTAL				**280.63**
	OVERHEADS & PROFIT @ 15 %				**42.10**
	TOTAL				**322.73**
	Rate per Each				322.73
	Say				**323.00**

1.22.7 200 mm X 150 mm X 60 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1312	200 mm X 150 mm X 60 mm deep metal box	each	1.00	70.00	70.00
1322	3 mm thick phenolic laminated sheet	sqcm	336.00	0.20	67.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**151.60**
	Cartage @ 1 % of A1				1.52
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.05	734.00	36.70
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.080	663.00	53.04
	TOTAL				**270.71**
	Add 12% GST (MF= 0.1405)				**38.03**
	TOTAL				**308.74**
	OVERHEADS & PROFIT @ 15 %				**46.31**
	TOTAL				**355.05**
	Rate per Each				355.05
	Say				**355.00**

1.22.8 200 mm X 150 mm X 75 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1316	200 mm X 150 mm X 75 mm deep metal box	each	1.00	76.00	76.00
1322	3 mm thick phenolic laminated sheet	sqcm	336.00	0.20	67.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**157.60**
	Cartage @ 1 % of A1				1.58
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.05	734.00	36.70
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.080	663.00	53.04
	TOTAL				**276.77**
	Add 12% GST (MF= 0.1405)				**38.89**
	TOTAL				**315.66**
	OVERHEADS & PROFIT @ 15 %				**47.35**
	TOTAL				**363.00**
	Rate per Each				363.00
	Say				**363.00**

1.22.9 200 mm X 250 mm X 60 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1313	200 mm X 250 mm X 60 mm deep metal box	each	1.00	90.00	90.00
1322	3 mm thick phenolic laminated sheet	sqcm	557.00	0.20	111.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	2.00	7.20	14.40
	Total cost of materials				**223.00**
	Cartage @ 1 % of A1				2.23
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.06	734.00	44.04
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.090	663.00	59.67
	TOTAL				**356.79**
	Add 12% GST (MF= 0.1405)				**50.13**
	TOTAL				**406.92**
	OVERHEADS & PROFIT @ 15 %				**61.04**
	TOTAL				**467.96**

	Rate per Each				467.96
	Say				**468.00**

1.22.10 200 mm X 250 mm X 75 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1317	200 mm X 250 mm X 75 mm deep metal box	each	1.00	105.00	105.00
1322	3 mm thick phenolic laminated sheet	sqcm	557.00	0.20	111.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	2.00	7.20	14.40
	Total cost of materials				**238.00**
	Cartage @ 1 % of A1				2.38
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.06	734.00	44.04
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.090	663.00	59.67
	TOTAL				**371.94**
	Add 12% GST (MF= 0.1405)				**52.26**
	TOTAL				**424.20**
	OVERHEADS & PROFIT @ 15 %				**63.63**
	TOTAL				**487.83**
	Rate per Each				487.83
	Say				**488.00**

1.22.11 200 mm X 150 mm X 100 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1318	200 mm X 150 mm X 100 mm deep metal box	each	1.00	92.00	92.00
1322	3 mm thick phenolic laminated sheet	sqcm	336.00	0.20	67.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	2.00	7.20	14.40
	Total cost of materials				**180.80**
	Cartage @ 1 % of A1				1.81
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.06	734.00	44.04

1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.090	663.00	59.67
	TOTAL				**314.14**
	Add 12% GST (MF= 0.1405)				**44.14**
	TOTAL				**358.31**
	OVERHEADS & PROFIT @ 15 %				**53.75**
	TOTAL				**412.06**
	Rate per Each				412.06
	Say				**412.00**

1.22.12 200 mm X 250 mm X 100 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1319	200 mm X 250 mm X 100 mm deep metal box	each	1.00	119.00	119.00
1322	3 mm thick phenolic laminated sheet	sqcm	557.00	0.20	111.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	2.00	7.20	14.40
	Total cost of materials				**252.00**
	Cartage @ 1 % of A1				**2.52**
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.06	734.00	44.04
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.090	663.00	59.67
	TOTAL				**386.08**
	Add 12% GST (MF= 0.1405)				**54.24**
	TOTAL				**440.32**
	OVERHEADS & PROFIT @ 15 %				**66.05**
	TOTAL				**506.37**
	Rate per Each				506.37
	Say				**506.00**

1.22.13 200 mm X 300 mm X 60 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1314	200 mm X 300 mm X 60 mm deep metal box	each	1.00	112.00	112.00
1322	3 mm thick phenolic laminated sheet	sqcm	662.00	0.20	132.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60

2935	Cement, paint, sand etc.	L.S.	2.00	7.20	14.40
	Total cost of materials				**266.00**
	Cartage @ 1 % of A1				2.66
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.06	734.00	44.04
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.090	663.00	59.67
	TOTAL				**400.22**
	Add 12% GST (MF= 0.1405)				**56.23**
	TOTAL				**456.45**
	OVERHEADS & PROFIT @ 15 %				**68.47**
	TOTAL				**524.92**
	Rate per Each				524.92
	Say				**525.00**

1.22.14 200 mm X 300 mm X 100 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1320	200 mm X 300 mm X 100 mm deep metal box	each	1.00	139.00	139.00
1322	3 mm thick phenolic laminated sheet	sqcm	662.00	0.20	132.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	2.00	7.20	14.40
	Total cost of materials				**293.00**
	Cartage @ 1 % of A1				2.93
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.06	734.00	44.04
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.090	663.00	59.67
	TOTAL				**427.49**
	Add 12% GST (MF= 0.1405)				**60.06**
	TOTAL				**487.55**
	OVERHEADS & PROFIT @ 15 %				**73.13**
	TOTAL				**560.68**
	Rate per Each				560.68
	Say				**561.00**

1.22.15 250 mm X 300 mm X 60 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1315	250 mm X 300 mm X 60 mm deep metal box	each	1.00	139.00	139.00
1322	3 mm thick phenolic laminated sheet	sqcm	835.00	0.20	167.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.68	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	2.00	7.20	14.40
	Total cost of materials				**327.60**
	Cartage @ 1 % of A1				3.28
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.06	734.00	44.04
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.090	663.00	59.67
	TOTAL				**462.44**
	Add 12% GST (MF= 0.1405)				**64.97**
	TOTAL				**527.41**
	OVERHEADS & PROFIT @ 15 %				**79.11**
	TOTAL				**606.52**
	Rate per Each				606.52
	Say				**607.00**

1.22.16 250 mm X 300 mm X 100 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1321	250 mm X 300 mm X 100 mm deep metal box	each	1.00	174.00	174.00
1322	3 mm thick phenolic laminated sheet	sqcm	835.00	0.20	167.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	2.00	7.20	14.40
	Total cost of materials				**362.60**
	Cartage @ 1 % of A1				3.63
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1010	Mason, Grade 2	day	0.06	734.00	44.04
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.090	663.00	59.67
	TOTAL				**497.79**
	Add 12% GST (MF= 0.1405)				**69.94**
	TOTAL				**567.72**
	OVERHEADS & PROFIT @ 15 %				**85.16**
	TOTAL				**652.88**
	Rate per Each				652.88
	Say				**653.00**

1.23 Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.

1.23.1 5/6 A switch

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	10.00	10.00
	Total cost of materials				**10.00**
	Cartage @ 1 % of A1				0.10
	LABOUR				
1001	Wireman	day	0.02	806.00	16.12
1007	Khallasi	day	0.02	663.00	13.26
	TOTAL				**39.48**
	Add 12% GST (MF= 0.1405)				**5.55**
	TOTAL				**45.03**
	OVERHEADS & PROFIT @ 15 %				**6.75**
	TOTAL				**51.78**
	Rate per Each				51.78
	Say				**52.00**

1.23.2 2 Way 5/6 A Switch

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1432	S.P. 5/6 A, two way switch, piano type ISI marked	each	1.00	19.00	19.00
	Total cost of materials				19.00
	Cartage @ 1 % of A1				0.19
	LABOUR				
1001	Wireman	day	0.02	806.00	16.12
1007	Khallasi	day	0.02	663.00	13.26
	TOTAL				**48.57**
	Add 12% GST (MF= 0.1405)				**6.82**
	TOTAL				**55.39**
	OVERHEADS & PROFIT @ 15 %				**8.31**
	TOTAL				**63.70**
	Rate per Each				63.70
	Say				**64.00**

1.23.3 15/16 A switch

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1433	S.P. 15/16 A, one way switch, piano type ISI marked	each	1.00	48.00	48.00
	Total cost of materials				48.00
	Cartage @ 1 % of A1				0.48
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**92.55**
	Add 12% GST (MF= 0.1405)				**13.00**
	TOTAL				**105.55**
	OVERHEADS & PROFIT @ 15 %				**15.83**
	TOTAL				**121.38**
	Rate per Each				121.38
	Say				**121.00**

1.23.4 3 Pin 5/6 A Socket Outlet

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1434	3 pin 5/6 A socket outlet, piano type ISI marked	each	1.00	23.00	23.00
	Total cost of materials				**23.00**
	Cartage @ 1 % of A1				0.23
	LABOUR				
1001	Wireman	day	0.02	806.00	16.12
1007	Khallasi	day	0.02	663.00	13.26
	TOTAL				**52.61**
	Add 12% GST (MF= 0.1405)				**7.39**
	TOTAL				**60.00**
	OVERHEADS & PROFIT @ 15 %				**9.00**
	TOTAL				**69.00**
	Rate per Each				69.00
	Say				**69.00**

1.23.5 6 pin 15/16 A socket outlet

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1435	6 pin 15/16 & 5/6 A socket outlet, piano type ISI marked	each	1.00	60.00	60.00
	Total cost of materials				**60.00**
	Cartage @ 1 % of A1				0.60
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**104.67**

	Add 12% GST (MF= 0.1405)				**14.71**
	TOTAL				**119.38**
	OVERHEADS & PROFIT @ 15 %				**17.91**
	TOTAL				**137.29**
	Rate per Each				137.29
	Say				**137.00**

1.23.6 Telephone socket outlet

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1437	Telephone Socket outlet piano type	each	1.00	39.00	39.00
	Total cost of materials				39.00
	Cartage @ 1 % of A1				0.39
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**83.46**
	Add 12% GST (MF= 0.1405)				**11.73**
	TOTAL				**95.19**
	OVERHEADS & PROFIT @ 15 %				**14.28**
	TOTAL				**109.47**
	Rate per Each				109.47
	Say				**109.00**

1.23.7 TV antenna socket outlet

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1438	T.V. Socket outlet piano type	each	1.00	28.00	28.00
	Total cost of materials				**28.00**
	Cartage @ 1 % of A1				0.28
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**72.35**
	Add 12% GST (MF= 0.1405)				**10.17**
	TOTAL				**82.52**
	OVERHEADS & PROFIT @ 15 %				**12.38**
	TOTAL				**94.90**
	Rate per Each				94.90
	Say				**95.00**

1.23.8 Bell Push

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1436	Bell push, piano type	each	1.00	19.00	19.00
	Total cost of materials				**19.00**
	Cartage @ 1 % of A1				0.19
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**63.26**
	Add 12% GST (MF= 0.1405)				**8.89**
	TOTAL				**72.15**
	OVERHEADS & PROFIT @ 15 %				**10.82**
	TOTAL				**82.97**
	Rate per Each				82.97
	Say				**83.00**

1.24 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.

1.24.1 5/6 A switch

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	34.00	34.00
	Total cost of materials				**34.00**
	Cartage @ 1 % of A1				0.34
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**78.41**
	Add 12% GST (MF= 0.1405)				**11.02**
	TOTAL				**89.43**
	OVERHEADS & PROFIT @ 15 %				**13.41**
	TOTAL				**102.84**
	Rate per Each				102.84
	Say				**103.00**

1.24.2 2 way 5/6 A switch

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1403	S.P. 5/6 A, two way modular switch, ISI marked	each	1.00	68.00	68.00
	Total cost of materials				**68.00**
	Cartage @ 1 % of A1				0.68
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**112.75**
	Add 12% GST (MF= 0.1405)				**15.84**
	TOTAL				**128.59**
	OVERHEADS & PROFIT @ 15 %				**19.29**
	TOTAL				**147.88**
	Rate per Each				147.88
	Say				**148.00**

1.24.3 15/16 A switch

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1404	S.P. 15/16 A, one way modular switch, ISI marked	each	1.00	74.00	74.00
	Total cost of materials				**74.00**
	Cartage @ 1 % of A1				0.74
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**118.81**
	Add 12% GST (MF= 0.1405)				**16.69**
	TOTAL				**135.50**
	OVERHEADS & PROFIT @ 15 %				**20.33**
	TOTAL				**155.83**
	Rate per Each				155.83
	Say				**156.00**

1.24.4 3 pin 5/6 A socket outlet

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1405	3 pin 5/6 A modular socket outlet, ISI marked	each	1.00	63.00	63.00
	Total cost of materials				**63.00**
	Cartage @ 1 % of A1				0.63
	LABOUR				
1001	Wireman	day	0.02	806.00	16.12
1007	Khallasi	day	0.02	663.00	13.26
	TOTAL				**93.01**
	Add 12% GST (MF= 0.1405)				**13.07**
	TOTAL				**106.08**
	OVERHEADS & PROFIT @ 15 %				**15.91**
	TOTAL				**121.99**
	Rate per Each				121.99
	Say				**122.00**

1.24.5 6 pin 15/16 A socket outlet

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1406	6 pin 15/16 A modular socket outlet, ISI marked	each	1.00	105.00	105.00
	Total cost of materials				**105.00**
	Cartage @ 1 % of A1				1.05
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**150.12**
	Add 12% GST (MF= 0.1405)				**21.09**
	TOTAL				**171.21**
	OVERHEADS & PROFIT @ 15 %				**25.68**
	TOTAL				**196.89**
	Rate per Each				196.89
	Say				**197.00**

1.24.6 Telephone socket outlet

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1409	Telephone Socket outlet modular type	each	1.00	68.00	68.00
	Total cost of materials				**68.00**
	Cartage @ 1 % of A1				0.68
	LABOUR				

1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**112.75**
	Add 12% GST (MF= 0.1405)				**15.84**
	TOTAL				**128.59**
	OVERHEADS & PROFIT @ 15 %				**19.29**
	TOTAL				**147.88**
	Rate per Each				147.88
	Say				**148.00**

1.24.7 TV antenna socket outlet

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1410	T.V. Socket outlet modular type	each	1.00	68.00	68.00
	Total cost of materials				**68.00**
	Cartage @ 1 % of A1				0.68
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**112.75**
	Add 12% GST (MF= 0.1405)				**15.84**
	TOTAL				**128.59**
	OVERHEADS & PROFIT @ 15 %				**19.29**
	TOTAL				**147.88**
	Rate per Each				147.88
	Say				**148.00**

1.24.8 Bell push

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1407	Modular bell push, ISI marked	each	1.00	62.00	62.00
	Total cost of materials				**62.00**
	Cartage @ 1 % of A1				0.62
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**106.69**
	Add 12% GST (MF= 0.1405)				**14.99**
	TOTAL				**121.68**
	OVERHEADS & PROFIT @ 15 %				**18.25**
	TOTAL				**139.93**
	Rate per Each				139.93
	Say				**140.00**

1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1408	Stepped type Modular Fan regulator (2 module)	each	1.00	220.00	220.00
	Total cost of materials				**220.00**
	Cartage @ 1 % of A1				2.20
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**280.96**
	Add 12% GST (MF= 0.1405)				**39.47**
	TOTAL				**320.43**
	OVERHEADS & PROFIT @ 15 %				**48.07**
	TOTAL				**368.50**
	Rate per Each				368.50
	Say				**369.00**

1.26 Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1411	Modular blanking plate	each	1.00	16.00	16.00
	Total cost of materials				**16.00**
	Cartage @ 1 % of A1				0.16
	LABOUR				
1001	Wireman	day	0.01	806.00	8.06
1007	Khallasi	day	0.01	663.00	6.63
	TOTAL				**30.85**
	Add 12% GST (MF= 0.1405)				**4.33**
	TOTAL				**35.18**
	OVERHEADS & PROFIT @ 15 %				**5.28**
	TOTAL				**40.46**
	Rate per Each				40.46
	Say				**40.00**

1.27 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.

1.27.1 1 or 2 Module (75mmX75mm)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1300	Modular GI box for 2 module	each	1.00	33.00	33.00
1421	Modular base & cover plate for 2 module	each	1.00	42.00	42.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**84.00**
	Cartage @ 1 % of A1				0.84
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1010	Mason, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**227.42**
	Add 12% GST (MF= 0.1405)				**31.95**
	TOTAL				**259.37**
	OVERHEADS & PROFIT @ 15 %				**38.91**
	TOTAL				**298.28**
	Rate per Each				298.28
	Say				**298.00**

1.27.2 3 Module (100mmX75mm)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1301	Modular GI box for 3 module	each	1.00	41.00	41.00
1422	Modular base & cover plate for 3 module	each	1.00	56.00	56.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**106.00**
	Cartage @ 1 % of A1				1.06
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1010	Mason, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**249.64**
	Add 12% GST (MF= 0.1405)				**35.07**
	TOTAL				**284.71**
	OVERHEADS & PROFIT @ 15 %				**42.71**
	TOTAL				**327.42**
	Rate per Each				327.42
	Say				**327.00**

1.27.3 4 Module (125mmX75mm)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1302	Modular GI box for 4 module	each	1.00	48.00	48.00
1423	Modular base & cover plate for 4 module	each	1.00	61.00	61.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**118.00**
	Cartage @ 1 % of A1				1.18
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1010	Mason, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**261.76**
	Add 12% GST (MF= 0.1405)				**36.78**
	TOTAL				**298.54**
	OVERHEADS & PROFIT @ 15 %				**44.78**
	TOTAL				**343.32**
	Rate per Each				343.32
	Say				**343.00**

1.27.4 6 Module (200mmX75mm)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1303	Modular GI box for 6 module	each	1.00	74.00	74.00
1424	Modular base & cover plate for 6 module	each	1.00	79.00	79.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**162.00**
	Cartage @ 1 % of A1				1.62
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1010	Mason, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**306.20**
	Add 12% GST (MF= 0.1405)				**43.02**
	TOTAL				**349.22**
	OVERHEADS & PROFIT @ 15 %				**52.38**
	TOTAL				**401.60**
	Rate per Each				401.60
	Say				**402.00**

1.27.5 8 Module (125mmX125mm)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1304	Modular GI box for 8 module	each	1.00	90.00	90.00
1425	Modular base & cover plate for 8 module	each	1.00	101.00	101.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**201.80**
	Cartage @ 1 % of A1				2.02
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1010	Mason, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**346.40**
	Add 12% GST (MF= 0.1405)				**48.67**
	TOTAL				**395.07**
	OVERHEADS & PROFIT @ 15 %				**59.26**
	TOTAL				**454.33**
	Rate per Each				454.33
	Say				**454.00**

1.27.6 12 Module (200mmX150mm)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1305	Modular GI box for 12 module	each	1.00	114.00	114.00
1426	Modular base & cover plate for 12 module	each	1.00	147.00	147.00
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**271.80**
	Cartage @ 1 % of A1				2.72
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1010	Mason, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**417.10**
	Add 12% GST (MF= 0.1405)				**58.60**
	TOTAL				**475.70**
	OVERHEADS & PROFIT @ 15 %				**71.36**
	TOTAL				**547.06**
	Rate per Each				547.06
	Say				**547.00**

1.28 Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.

1.28.1 1 or 2 Module

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1420	Modular base & cover plate for 1 module	each	1.00	42.00	42.00
	Total cost of materials				**42.00**
	Cartage @ 1 % of A1				0.42
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**101.18**
	Add 12% GST (MF= 0.1405)				**14.22**
	TOTAL				**115.40**
	OVERHEADS & PROFIT @ 15 %				**17.31**
	TOTAL				**132.71**
	Rate per Each				132.71
	Say				**133.00**

1.28.2 3 Module

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1422	Modular base & cover plate for 3 module	each	1.00	56.00	56.00
	Total cost of materials				**56.00**
	Cartage @ 1 % of A1				0.56
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**115.32**
	Add 12% GST (MF= 0.1405)				**16.20**
	TOTAL				**131.52**
	OVERHEADS & PROFIT @ 15 %				**19.73**
	TOTAL				**151.25**
	Rate per Each				151.25
	Say				**151.00**

1.28.3 4 Module

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1423	Modular base & cover plate for 4 module	each	1.00	61.00	61.00
	Total cost of materials				**61.00**
	Cartage @ 1 % of A1				0.61
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**120.37**
	Add 12% GST (MF= 0.1405)				**16.91**
	TOTAL				**137.28**

	OVERHEADS & PROFIT @ 15 %				**20.59**
	TOTAL				**157.87**
	Rate per Each				157.87
	Say				**158.00**

1.28.4 6 Module

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1424	Modular base & cover plate for 6 module	each	1.00	79.00	79.00
	Total cost of materials				**79.00**
	Cartage @ 1 % of A1				0.79
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**138.55**
	Add 12% GST (MF= 0.1405)				**19.47**
	TOTAL				**158.02**
	OVERHEADS & PROFIT @ 15 %				**23.70**
	TOTAL				**181.72**
	Rate per Each				181.72
	Say				**182.00**

1.28.5 8 Module

COST FOR EACH

ICD No.	Description	Unit t	Qty	Rate	Amount (₹)
	MATERIALS				
1425	Modular base & cover plate for 8 module	each	1.00	101.00	101.00
	Total cost of materials				**101.00**
	Cartage @ 1 % of A1				1.01
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**160.77**
	Add 12% GST (MF= 0.1405)				**22.59**
	TOTAL				**183.36**
	OVERHEADS & PROFIT @ 15 %				**27.50**
	TOTAL				**210.86**
	Rate per Each				210.86
	Say				**211.00**

1.28.6 12 Module

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1426	Modular base & cover plate for 12 module	each	1.00	147.00	147.00
	Total cost of materials				**147.00**
	Cartage @ 1 % of A1				1.47
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**207.23**
	Add 12% GST (MF= 0.1405)				**29.12**
	TOTAL				**236.35**
	OVERHEADS & PROFIT @ 15 %				**35.45**
	TOTAL				**271.80**
	Rate per Each				271.80
	Say				**272.00**

1.29 Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 A socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings).

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1308	150 mm X 75 mm X 60 mm deep metal box	each	1.00	37.00	37.00
1322	3 mm thick phenolic laminated sheet	sqcm	136.00	0.20	27.20
1434	3 pin 5/6 A socket outlet, piano type ISI marked	each	1.00	23.00	23.00
1431	S.P. 5/6 A, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**109.80**
	Cartage @ 1 % of A1				1.10
	LABOUR				
1001	Wireman	day	0.07	806.00	56.42
1010	Mason, Grade 2	day	0.04	734.00	29.36
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.11	663.00	72.93
	TOTAL				**273.28**
	Add 12% GST (MF= 0.1405)				**38.40**
	TOTAL				**311.67**
	OVERHEADS & PROFIT @ 15 %				**46.75**
	TOTAL				**358.42**
	Rate per Each				358.42
	Say				**358.00**

1.30 Supplying and fixing metal box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in FRLSont including providing and fixing 6 pin 5/6 & 15/16 A socket outlet and 15/16 A piano type switch, connection, painting etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1310	180 mm X 100 mm X 60 mm deep metal box	each	1.00	45.00	45.00
1322	3 mm thick phenolic laminated sheet	sqcm	209.00	0.20	41.80
1435	6 pin 15/16 & 5/6 A socket outlet, piano type ISI marked	each	1.00	60.00	60.00
1433	S.P. 15/16 A, one way switch, piano type ISI marked	each	1.00	48.00	48.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.90	3.60
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**207.40**
	Cartage @ 1 % of A1				2.07
	LABOUR				
1001	Wireman	day	0.07	806.00	56.42
1010	Mason, Grade 2	day	0.04	734.00	29.36
1006	Painter	day	0.005	734.00	3.67
1007	Khallasi	day	0.11	663.00	72.93
	TOTAL				**371.85**
	Add 12% GST (MF= 0.1405)				**52.25**
	TOTAL			41.00	**424.10**
	OVERHEADS & PROFIT @ 15 %			63.00	**63.61**
	TOTAL			34.00	**487.71**
	Rate per Each			56.00	487.71
	Say			0.90	**488.00**

1.31 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connection etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1301	Modular GI box for 3 module	each	1.00	41.00	41.00
1405	3 pin 5/6 A modular socket outlet, ISI marked	each	1.00	63.00	63.00
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	1.00	34.00	34.00
1422	Modular base & cover plate for 3 module	each	1.00	56.00	56.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80

2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**203.00**
	Cartage @ 1 % of A1				2.03
	LABOUR				
1001	Wireman	day	0.07	806.00	56.42
1010	Mason, Grade 2	day	0.04	734.00	29.36
1007	Khallasi	day	0.11	663.00	72.93
	TOTAL				**363.74**
	Add 12% GST (MF= 0.1405)				**51.11**
	TOTAL				**414.85**
	OVERHEADS & PROFIT @ 15 %				**62.23**
	TOTAL				**477.08**
	Rate per Each				477.08
					477.00

1.32 Supplying and fixing suitable size GI box with modular plate and cover in FRLSont on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connection etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1301	Modular GI box for 3 module	each	1.00	41.00	41.00
1406	6 pin 15/16 A modular socket outlet, ISI marked	each	1.00	105.00	105.00
1404	S.P. 15/16 A, one way modular switch, ISI marked	each	1.00	74.00	74.00
1422	Modular base & cover plate for 3 module	each	1.00	56.00	56.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**285.00**
	Cartage @ 1 % of A1				2.85
	LABOUR				
1001	Wireman	day	0.07	806.00	56.42
1010	Mason, Grade 2	day	0.04	734.00	29.36
1007	Khallasi	day	0.11	663.00	72.93
	TOTAL				**446.56**
	Add 12% GST (MF= 0.1405)				**62.74**
	TOTAL				**509.30**
	OVERHEADS & PROFIT @ 15 %				**76.40**
	TOTAL				**585.70**
	Rate per Each				585.70
	Say				**586.00**

1.33 Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connection etc as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1401	Ceiling rose, 3 pin, 5 A ISI marked	each	1.00	20.00	20.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.90	1.80
	Total cost of materials				**21.80**
	Cartage @ 1 % of A1				0.22
	LABOUR				
1001	Wireman	day	0.03	806.00	24.18
1007	Khallasi	day	0.03	663.00	19.89
	TOTAL				**66.09**
	Add 12% GST (MF= 0.1405)				**9.29**
	TOTAL				**75.37**
	OVERHEADS & PROFIT @ 15 %				**11.31**
	TOTAL				**86.68**
	Rate per Each				86.68
	Say				**87.00**

1.34 Supplying and fixing brass batten/ angle holder including connection etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1442	Brass batten/ angle holder	each	1.00	38.00	38.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	3.00	0.90	2.70
	Total cost of materials				**40.70**
	Cartage @ 1 % of A1				0.41
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**99.87**
	Add 12% GST (MF= 0.1405)				**14.03**
	TOTAL				**113.90**
	OVERHEADS & PROFIT @ 15 %				**17.08**
	TOTAL				**130.98**
	Rate per Each				130.98
	Say				**131.00**

1.35 Installation, testing and commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connection etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	3.00	0.90	2.70
	Total cost of materials				**2.70**
	Cartage @ 1 % of A1				0.03
	LABOUR				
1001	Wireman	day	0.06	806.00	48.36
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**90.87**
	Add 12% GST (MF= 0.1405)				**12.77**
	TOTAL				**103.63**
	OVERHEADS & PROFIT @ 15 %				**15.55**
	TOTAL				**119.18**
	Rate per Each				119.18
	Say				**119.00**

1.36 Supplying and fixing stiff pendent with 300 mm long, 20 mm dia X 1.6 mm thick steel conduit, aluminium cast back plate and brass holder complete, including wiring the down rod with 1.5 sq. Mm FRLS PVC insulated, copper conductor, single core cable and painting etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1201	20 mm dia. ISI marked, steel conduit	meter	0.32	73.00	23.36
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 0.75 + 0.04 (Wastage @5%) = 0.79m	meter	0.79	18.00	14.22
2908	Brass nipple	each	1.00	13.50	13.50
2928	Back plate	each	1.00	9.00	9.00
1443	Brass bracket holder 16 mm	each	1.00	47.00	47.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	3.00	0.90	2.70
2944	Paint	letre	0.01	180.00	1.80
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
	Total cost of materials				**113.38**
	Cartage @ 1 % of A1				1.13
	LABOUR				
1001	Wireman	day	0.06	806.00	48.36
1010	Mason, Grade 2	day	0.04	734.00	29.36
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**232.01**

	Add 12% GST (MF= 0.1405)	**32.60**
	TOTAL	**264.61**
	OVERHEADS & PROFIT @ 15 %	**39.69**
	TOTAL	**304.30**
	Rate per Each	304.30
	Say	**304.00**

1.37 DELETED

1.38 Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1444	Call bell/ buzzer, single phase	each	1.00	44.00	44.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.90	1.80
	Total cost of materials				**45.80**
	Cartage @ 1 % of A1				0.46
	LABOUR				
1001	Wireman	day	0.02	806.00	16.12
1007	Khallasi	day	0.02	663.00	13.26
	TOTAL				**75.64**
	Add 12% GST (MF= 0.1405)				**10.63**
	TOTAL				**86.27**
	OVERHEADS & PROFIT @ 15 %				**12.94**
	TOTAL				**99.21**
	Rate per Each				99.21
	Say				**99.00**

1.39 Providing and fixing plain 16/0.20mm (0.50sqmm) twin flat flexible, FRLS PVC insulated, copper cable, in PVC sleeve of suitable size on the floor/ wall, or side of the table/ door etc. as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1108	16/0.20 mm (0.5 sqmm) twin core FRLS PVC sheathed, flat flexible copper cable	meter	53.03	20.00	1060.60
	Total cost of materials				**1060.60**
	Cartage @ 1 % of A1				10.61
	LABOUR				
1001	Wireman	day	0.40	806.00	322.40
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**1658.81**

	Add 12% GST (MF= 0.1405)				**233.06**
	TOTAL				**1891.87**
	OVERHEADS & PROFIT @ 15 %				**283.78**
	TOTAL				**2175.65**
	Rate per meter				43.51
	Say				**44.00**

1.40 Providing and fixing plain 16/0.20mm (0.50sqmm) twin circular flexible FRLS PVC insulated, PVC sheathed copper cable direct on the wall with PVC clips etc. as required.

COST FOR 50 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1109	16/0.20 mm (0.5 sqmm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	meter	53.03	21.00	1113.63
2858	PVC clip for fixing cable	each	100.00	0.45	45.00
	Total cost of materials				**1158.63**
	Cartage @ 1 % of A1				11.59
	LABOUR				
1001	Wireman	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1537.47**
	Add 12% GST (MF= 0.1405)				**216.01**
	TOTAL				**1753.48**
	OVERHEADS & PROFIT @ 15 %				**263.02**
	TOTAL				**2016.50**
	Rate per meter				40.33
	Say				**40.00**

1.41 Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 0.30 + 0.02 (Wastage @5%) = 0.32m	meter	0.32	18.00	5.76
2852	Iron screws, 35 mm X 6 mm	each	2.00	1.80	3.60
2857	PVC fastener 40mm long	each	1.00	0.90	0.90

	Total cost of materials				**10.26**
	Cartage @ 1 % of A1				0.10
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**157.26**
	Add 12% GST (MF= 0.1405)				**22.10**
	TOTAL				**179.36**
	OVERHEADS & PROFIT @ 15 %				**26.90**
	TOTAL				**206.26**
	Rate per Each				206.26
	Say				**206.00**

1.42 Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc., including supplying and fixing ball and socket arrangement, 2 no. down rods of 20 mm dia X 1.6 mm thick steel conduit upto 30 cm length, painting and wiring the down rods and connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 0.90 + 0.05 (Wastage @5%) = 0.95m	meter	0.95	18.00	17.10
1201	20 mm dia. ISI marked, steel conduit = 0.60 + 0.03 (Wastage @5%) = 0.63m	meter	0.63	73.00	45.99
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	6.00	0.90	5.40
2927	Ball and socket	each	2.00	22.50	45.00
2929	Check nut 20mm	each	4.00	5.40	21.60
2859	Rubber/ PVC bushes	each	1.00	0.90	0.90
2944	Paint	letre	0.02	180.00	3.60
2857	PVC fastener 40mm long	each	6.00	0.90	5.40
	Total cost of materials				**144.99**
	Cartage @ 1 % of A1				1.45
	LABOUR				
1001	Wireman	day	0.130	806.00	104.78
1006	Painter	day	0.03	734.00	22.02
1007	Khallasi	day	0.130	663.00	86.19
	TOTAL				**359.43**
	Add 12% GST (MF= 0.1405)				**50.50**
	TOTAL				**409.93**
	OVERHEADS & PROFIT @ 15 %				**61.49**
	TOTAL				**471.42**
	Rate per Each				471.42
	Say				**471.00**

1.43 Providing and fixing extra conduit down rod of 20 mm dia, 2 X 10 cm length wiring with 2 X 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable including painting etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1201	20 mm dia. ISI marked, steel conduit	meter	0.20	73.00	14.60
1101	1.5 sq. mm ISI marked, FRLS PVC insulated,	meter	0.20	18.00	3.60
2944	single core copper conductor cable	letre	0.01	180.00	1.80
	Paint				
	Total cost of materials				**20.00**
	Cartage @ 1 % of A1				0.20
	LABOUR				
1001	Wireman	day	0.010	806.00	8.06
1006	Painter	day	0.010	734.00	7.34
1007	Khallasi	day	0.010	663.00	6.63
	TOTAL				**42.23**
	Add 12% GST (MF= 0.1405)				**5.93**
	TOTAL				**48.16**
	OVERHEADS & PROFIT @ 15 %				**7.22**
	TOTAL				**55.38**
	Rate per Each				55.38
	Say				**55.00**

1.44 Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.

COST FOR 10 NOS OF FANS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 8.0 + 0.40 (Wastage @5%) = 8.40m	meter	8.40	18.00	151.20
	Total cost of materials				**151.20**
	Cartage @ 1 % of A1				1.51
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**1621.71**
	Add 12% GST (MF= 0.1405)				**227.85**
	TOTAL				**1849.56**
	OVERHEADS & PROFIT @ 15 %				**277.43**

	TOTAL	**2126.99**
	Rate per Fan	212.70
	Say	**213.00**

1.45 Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.

COST FOR 10 NOS OF FANS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 8.0 + 0.40 (Wastage @5%) = 8.40m	meter	8.40	18.00	151.20
1322	3 mm thick phenolic laminated sheet	sqcm	2312.00	0.40	924.80
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	16.00	0.90	14.40
2920	Washers	each	16.00	0.00	0.00
	Total cost of materials				**628.00**
	Cartage @ 1 % of A1				6.28
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**2103.28**
	Add 12% GST (MF= 0.1405)				**295.51**
	TOTAL				**2398.79**
	OVERHEADS & PROFIT @ 15 %				**359.82**
	TOTAL				**2758.61**
	Rate per Fan				275.86
	Say				**276.00**

1.46 DELETED

1.47 Supplying and fixing extra down rod of 10 cm length G.I. pipe ,15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2827	15 mm dia. G.I. pipe (heavy class) = 0.10 + 0.005 (Wastage @ 5%) = 0.105m	meter	0.105	169.20	17.77
2944	Paint	letre	0.01	180.00	1.80
	Total cost of materials				**19.57**
	Cartage @ 1 % of A1				0.20

	LABOUR				
1001	Wireman	1001	0.007	806.00	5.64
1006	Painter	1006	0.007	734.00	5.14
1007	Khallasi	1007	0.007	663.00	4.64
	TOTAL				**35.19**
	Add 12% GST (MF= 0.1405)				**4.94**
	TOTAL				**40.13**
	OVERHEADS & PROFIT @ 15 %				**6.02**
	TOTAL				**46.15**
	Rate per Each				46.15
	Say				**46.00**

1.48 Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2828	20 mm dia. G.I. pipe (heavy class) = 0.10 + 0.005 (Wastage @ 5%) = 0.105m	meter	0.105	213.60	22.43
2944	Paint	letre	0.01	180.00	1.80
	Total cost of materials				**24.23**
	Cartage @ 1 % of A1				0.24
	LABOUR				
1001	Wireman	day	0.007	806.00	5.64
1006	Painter	day	0.007	734.00	5.14
1007	Khallasi	day	0.007	663.00	4.64
	TOTAL				**39.89**
	Add 12% GST (MF= 0.1405)				**5.60**
	TOTAL				**45.50**
	OVERHEADS & PROFIT @ 15 %				**6.82**
	TOTAL				**52.32**
	Rate per Each				52.32
	Say				**52.00**

1.49 Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.

COST FOR 100 FANS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2944	Paint	litre	1.00	180.00	180.00
	Total cost of materials				**180.00**
	Cartage @ 1 % of A1				1.80
	LABOUR				

1006	Painter	day	3.00	734.00	2202.00
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**4372.80**
	Add 12% GST (MF= 0.1405)				**614.38**
	TOTAL				**4987.18**
	OVERHEADS & PROFIT @ 15 %				**748.08**
	TOTAL				**5735.26**
	Rate per Each				57.35
	Say				**57.00**

1.50 Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.

1.50.1 Upto 450 mm sweep

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
1108	16/0.20 mm (0.5 sqmm) twin core FRLS PVC sheathed, flat flexible copper cable	meter	1.00	20.00	20.00
	Total cost of materials				**48.80**
	Cartage @ 1 % of A1				0.49
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**343.09**
	Add 12% GST (MF= 0.1405)				**48.20**
	TOTAL				**391.29**
	OVERHEADS & PROFIT @ 15 %				**58.69**
	TOTAL				**449.98**
	Rate per Each				449.98
	Say				**450.00**

1.50 Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.

1.50.2 510 mm sweep

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
1108	16/0.20 mm (0.5 sqmm) twin core FRLS PVC sheathed, flat flexible copper cable	meter	1.00	20.00	20.00

	Total cost of materials				**48.80**
	Cartage @ 1 % of A1				0.49
	LABOUR				
1001	Wireman	day	0.30	806.00	241.80
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**489.99**
	Add 12% GST (MF= 0.1405)				**68.84**
	TOTAL				**558.83**
	OVERHEADS & PROFIT @ 15 %				**83.82**
	TOTAL				**642.65**
	Rate per Each				642.65
	Say				**643.00**

1.51 Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2853	Iron screws, 40 mm X 6 mm	each	4.00	1.80	7.20
2857	PVC fastener 40mm long	each	4.00	0.90	3.60
	Total cost of materials				**10.80**
	Cartage @ 1 % of A1				0.11
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**157.81**
	Add 12% GST (MF= 0.1405)				**22.17**
	TOTAL				**179.98**
	OVERHEADS & PROFIT @ 15 %				**27.00**
	TOTAL				**206.98**
	Rate per Each				206.98
	Say				**207.00**

1.52 Painting of ceiling fan in installed position with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent etc as required.

COST FOR 50 FANS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2944	Paint	letre	2.70	180.00	486.00
2939	Cleaning materials like soap/ detergent	kg	1.00	54.00	54.00
2938	Cotton waste, cleaning cloth etc.	kg	2.00	49.50	99.00
	Total cost of materials				**639.00**

	Cartage @ 1 % of A1				6.39
	LABOUR				
1006	Painter	day	3.00	734.00	2202.00
1007	Khallasi	day	3.00	663.00	1989.00
1082	Hire charges for compressor and spray gun	day	3.00	350.00	1050.00
	TOTAL				**5886.39**
	Add 12% GST (MF= 0.1405)				**827.04**
	TOTAL				**6713.43**
	OVERHEADS & PROFIT @ 15 %				**1007.01**
	TOTAL				**7720.44**
	Rate per Each				154.41
	Say				**154.00**

1.53 Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/ PVC conduit as required.

1.53.1 1 run of Cable

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1451	4 pair UTP CAT 6	meter	51.50	28.00	1442.00
	Total cost of materials				**1442.00**
	Cartage @ 1 % of A1				14.42
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**2190.92**
	Add 12% GST (MF= 0.1405)				**307.82**
	TOTAL				**2498.74**
	OVERHEADS & PROFIT @ 15 %				**374.81**
	TOTAL				**2873.55**
	Rate per meter				57.47
	Say				**57.00**

1.53.2 2 run of Cable

COST FOR 50 meterS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1451	4 pair UTP CAT 6	meter	103.00	28.00	2884.00
	Total cost of materials				**2884.00**
	Cartage @ 1 % of A1				28.84
	LABOUR				

1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**3647.34**
	Add 12% GST (MF= 0.1405)				**512.45**
	TOTAL				**4159.79**
	OVERHEADS & PROFIT @ 15 %				**623.97**
	TOTAL				**4783.76**
	Rate per meter				95.68
	Say				**96.00**

1.53.3 3 run of Cable

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1451	4 pair UTP CAT 6	meter	154.50	28.00	4326.00
	Total cost of materials				**4326.00**
	Cartage @ 1 % of A1				43.26
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**5103.76**
	Add 12% GST (MF= 0.1405)				**717.08**
	TOTAL				**5820.84**
	OVERHEADS & PROFIT @ 15 %				**873.13**
	TOTAL				**6693.97**
	Rate per meter				133.88
	Say				**134.00**

1.54 Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required.

1.54.1 Group A

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for 1 point				
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable 3x3=9-1x3=6+0.30 (wastage @ 5%)= 6.3m	meter	6.30	18.00	113.40
1201	20 mm dia. ISI marked, steel conduit = 2.5-1=1.5+0.075 (wastage @5%)= 1.575 m	meter	1.58	73.00	115.34
1218	20 mm iron staples/ saddles/ screws	each	2.00	8.00	16.00
	Total cost of materials				**244.74**
	LABOUR				

1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.05	734.00	36.70
1006	Painter	day	0.02	734.00	14.68
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**592.37**
	Add 12% GST (MF= 0.1405)				**83.23**
	TOTAL				**675.60**
	Add 15 % Over Head & Contractor Profit				**101.34**
	TOTAL				**776.93**
	Rate per Point				776.93
	Say				**777.00**

1.54.2 Group B

.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for 1 point				
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 3x4=12-1.2x3=8.4+0.4 (wastage @ 5%) = 8.8 m	meter	8.80	18.00	158.40
1201	20 mm dia. ISI marked, steel conduit =3.5-1.2= 2.3 + 0.12 (wastage @5%)= 2.42 m	meter	2.42	73.00	176.66
1218	20 mm iron staples/ saddles/ screws	each	4.00	8.00	32.00
	Total cost of materials				**367.06**
	Cartage @ 1 %				3.67
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.05	734.00	36.70
1006	Painter	day	0.02	734.00	14.68
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**715.91**
	Add 12% GST (MF= 0.1405)				**100.59**
	TOTAL				**816.50**
	Add 15 % Over Head & Contractor Profit				**122.47**
	TOTAL				**938.97**
	Rate per Point				938.97
	Say				**939.00**

1.54.3 Group C

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for 1 point				
	MATERIALS				

1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 3x5=15-1.5x3= 10.5 + 0.52 (wastage @ 5%) = 11.02 m	meter	11.02	18.00	198.36
1201	20 mm dia. ISI marked, steel conduit = 4.5-1.5= 3 + 0.15 (wastage @5%)= 3.15 m	meter	3.15	73.00	229.95
1211	20 mm sockets	each	1.00	8.00	8.00
1218	20 mm iron staples/ saddles/ screws	each	6.00	8.00	48.00
	Total cost of materials				**484.31**
	Cartage @ 1 %				4.84
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.05	734.00	36.70
1006	Painter	day	0.02	734.00	14.68
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**834.33**
	Add 12% GST (MF= 0.1405)				**117.22**
	TOTAL				**951.56**
	Add 15 % Over Head & Contractor Profit				**142.73**
	TOTAL				**1094.29**
	Rate per Point				1094.29
	Say				**1094.00**

1.55 Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc as required.

1.55.1 Group A

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for 1 point				
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable 3x3=9-1x3=6+0.30 (wastage @ 5%)= 6.3m	meter	6.30	18.00	113.40
1224	20 mm dia. ISI marked, PVC conduit = 2.5-1=1.5+0.075 (wastage @5%)= 1.575 m	meter	1.58	21.00	33.18
1218	20 mm iron staples/ saddles/ screws	each	2.00	8.00	16.00
	Total cost of materials				**162.58**
	Cartage @ 1 %				1.63
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**494.71**

	Add 12% GST (MF= 0.1405)	**69.51**
	TOTAL	**564.21**
	Add 15 % Over Head & Contractor Profit	**84.63**
	TOTAL	**648.84**
	Rate per Point	648.84
	Say	**649.00**

1.55.2 Group B

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for 1 point				
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 3x4=12-1.2x3=8.4+0.4 (wastage @ 5%) = 8.8 m	meter	8.80	18.00	158.40
1224	20 mm dia. ISI marked, PVC conduit =3.5-1.2= 2.3 + 0.12 (wastage @5%)= 2.42 m	meter	2.42	21.00	50.82
1218	20 mm iron staples/ saddles/ screws	each	4.00	8.00	32.00
	Total cost of materials				**241.22**
	Cartage @ 1 %				2.41
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**574.13**
	Add 12% GST (MF= 0.1405)				**80.67**
	TOTAL				**654.80**
	Add 15 % Over Head & Contractor Profit				**98.22**
	TOTAL				**753.02**
	Rate per Point				753.02
	Say				**753.00**

1.55.3 Group C

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for 1 point				
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 3x5=15-1.5x3= 10.5 + 0.52 (wastage @ 5%) = 11.02 m	meter	11.02	18.00	198.36
1224	20 mm dia. ISI marked, PVC conduit = 4.5-1.5= 3 + 0.15 (wastage @5%)= 3.15 m	meter	3.15	21.00	66.15

1211	20 mm sockets	each	1.00	8.00	8.00
1218	20 mm iron staples/ saddles/ screws	each	6.00	8.00	48.00
	Total cost of materials				**320.51**
	Cartage @ 1 %				3.21
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**654.22**
	Add 12% GST (MF= 0.1405)				**91.92**
	TOTAL				**746.13**
	Add 15 % Over Head & Contractor Profit				**111.92**
	TOTAL				**858.05**
	Rate per Point				858.05
	Say				**858.00**

1.56 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providng and fixing 2 nos. 3 pin 5/6 A modular socket outlets and 2 nos 5/6 A modular switches, connection etc. as required. (For light plugs to be used in non residential buildings).

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for 1 point				
	MATERIALS				
1424	Modular base & cover plate for 6 module	each	1.00	79.00	79.00
1405	3 pin 5/6 A modular socket outlet, ISI marked	each	2.00	63.00	126.00
1402	S.P. 5/6 A, one way modular switch, ISI marked	each	2.00	34.00	68.00
1303	Modular GI box for 6 module	each	1.00	74.00	74.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
	Total cost of materials				**353.30**
	Cartage @ 1 %				3.53
	LABOUR				
1001	Wireman	day	0.07	806.00	56.42
1010	Mason, Grade 2	day	0.04	734.00	29.36
1007	Khallasi	day	0.11	663.00	72.93
	TOTAL				**515.54**
	Add 12% GST (MF= 0.1405)				**72.43**
	TOTAL				**587.98**
	Add 15 % Over Head & Contractor Profit				**88.20**
	TOTAL				**676.17**
	Rate per Point				676.17
	Say				**676.00**

1.57 Supplying & fixing suitable size GI box wih modular plate and cover in front on surface or in recess i/c providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connection, painting etc. as required.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for 1 point				
	MATERIALS				
1301	Modular GI box for 3 module	each	1.00	41.00	41.00
1412	6 pin 25 A modular type socket ISI Marked	nos	1.00	125.00	125.00
1705	25 A modular SPMCB	nos	1.00	161.00	161.00
1422	Modular base & cover plate for 3 module	each	1.00	56.00	56.00
2857	PVC fastener 40mm long	each	2.00	0.90	1.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**392.00**
	Cartage @ 1 %				3.92
	LABOUR				
1001	Wireman	day	0.07	806.00	56.42
1010	Mason, Grade 2	day	0.04	734.00	29.36
1007	Khallasi	day	0.11	663.00	72.93
	TOTAL				**554.63**
	Add 12% GST (MF= 0.1405)				**77.93**
	TOTAL				**632.56**
	Add 15 % Over Head & Contractor Profit				**94.88**
	TOTAL				**727.44**
	Rate per Each				727.44
	Say				**727.00**

1.58 Supplying and fixing PVC batten/ angle holder including connection etc. as required.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for 1 point				
	MATERIALS				
1452	PVC Batten/ Angle Holder	each	1.00	22.00	22.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	3.00	0.90	2.70
	Total cost of materials				**24.70**
	Cartage @ 1 %				0.25
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**83.71**
	Add 12% GST (MF= 0.1405)				**11.76**
	TOTAL				**95.47**

Add 15 % Over Head & Contractor Profit		14.32
TOTAL		109.79
Rate per Each		109.79
		110.00

1.59 Dismantling of ceiling fan and painting the same with with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent and replacing the damaged rubber reel, nuts and bolts with washers and safety pins refixing the same as required.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for 1 point				
	MATERIALS				
2944	Paint = 2.7 + 0.135 (wastage @5%) = 2.835	litre	2.84	180.00	510.30
2939	Cleaning materials like soap/ detergent	kg	1.00	54.00	54.00
2938	Cotton waste, cleaning cloth etc.	kg	2.00	49.50	99.00
2930	Rubber reel, nut & bolts with washers and safety pin	set	10.00	67.50	675.00
	Total cost of materials				1338.30
	Cartage @ 1 %				13.38
	LABOUR				
1001	Wireman	day	3.00	806.00	2418.00
1006	Painter	day	3.00	734.00	2202.00
1007	Khallasi	day	6.00	663.00	3978.00
	TOTAL				9949.68
	Add 12% GST (MF= 0.1405)				1397.93
	TOTAL				11347.61
	Add 15 % Over Head & Contractor Profit				1702.14
	Cost for 50 Fans				13049.76
	Rate per Each				261.00
	Say				261.00

2.1 Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required.

2.1.1 32 A TP&N

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1601	32 A TPN, switch disconnector fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	1443.00	1443.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
2934	Earthing thimbles and solder	L.S.	1.00	18.00	18.00
	Total cost of materials				**1479.00**
	Cartage @ 1 % of A1				14.79
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1640.69**
	Add 12% GST (MF= 0.1405)				**230.52**
	TOTAL				**1871.21**
	OVERHEADS & PROFIT @ 15 %				**280.68**
	TOTAL				**2151.89**
	Rate for Each				2151.89
	Say				**2152.00**

2.1.2 63 A TP&N

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1602	63 A TPN, switch disconnector fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	2127.00	2127.00
2863	38mm X 10mm bolts & nuts	each	4.00	9.00	36.00
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
2934	Earthing thimbles and solder	L.S.	1.00	18.00	18.00
	Total cost of materials				**2184.60**
	Cartage @ 1 % of A1				21.85
	LABOUR				
1001	Wireman	day	0.130	806.00	104.78
1007	Khallasi	day	0.130	663.00	86.19
	TOTAL				**2397.42**

	Add 12% GST (MF= 0.1405)	**336.84**
	TOTAL	**2734.25**
	OVERHEADS & PROFIT @ 15 %	**410.14**
	TOTAL	**3144.39**
	Rate for Each	3144.39
	Say	**3144.00**

2.1.3 100 A TP&N

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1603	100 A TPN, switch disconnector fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	4346.00	4346.00
2863	38mm X 10mm bolts & nuts	each	4.00	9.00	36.00
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
2934	Earthing thimbles and solder	L.S.	1.00	18.00	18.00
	Total cost of materials				**4403.60**
	Cartage @ 1 % of A1				44.04
	LABOUR				
1001	Wireman	day	0.130	806.00	104.78
1007	Khallasi	day	0.130	663.00	86.19
	TOTAL				**4638.61**
	Add 12% GST (MF= 0.1405)				**651.72**
	TOTAL				**5290.33**
	OVERHEADS & PROFIT @ 15 %				**793.55**
	TOTAL				**6083.88**
	Rate for Each				6083.88
	Say				**6084.00**

2.1.4 125 A TP&N

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1604	125 A TPN, switch disconnector fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	5151.00	5151.00
2863	38mm X 10mm bolts & nuts	each	4.00	9.00	36.00
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
2934	Earthing thimbles and solder	L.S.	1.00	18.00	18.00
	Total cost of materials				**5208.60**
	Cartage @ 1 % of A1				52.09
	LABOUR				

1001	Wireman	day	0.15	806.00	120.90
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**5481.04**
	Add 12% GST (MF= 0.1405)				**770.09**
	TOTAL				**6251.12**
	OVERHEADS & PROFIT @ 15 %				**937.67**
	TOTAL				**7188.79**
	Rate for Each				7188.79
	Say				**7189.00**

2.1.5 160 A TP&N

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1605	160 A TPN, switch disconnector fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	5851.00	5851.00
2863	38mm X 10mm bolts & nuts	each	4.00	9.00	36.00
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
2934	Earthing thimbles and solder	L.S.	1.00	18.00	18.00
	Total cost of materials				**5908.60**
	Cartage @ 1 % of A1				59.09
	LABOUR				
1001	Wireman	day	0.15	806.00	120.90
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**6188.04**
	Add 12% GST (MF= 0.1405)				**869.42**
	TOTAL				**7057.46**
	OVERHEADS & PROFIT @ 15 %				**1058.62**
	TOTAL				**8116.08**
	Rate for Each				8116.08
	Say				**8116.00**

2.1.6 200 A TP&N

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1606	200 A TPN switch fuse unit with ISI marked HRC fuses	each	1.00	7009.00	7009.00
2863	38mm X 10mm bolts & nuts	each	4.00	9.00	36.00
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
2934	Earthing thimbles and solder	L.S.	1.00	18.00	18.00
	Total cost of materials				**7066.60**
	Cartage @ 1 % of A1				70.67

	LABOUR				
1001	Wireman	day	0.170	806.00	137.02
1007	Khallasi	day	0.170	663.00	112.71
	TOTAL				**7387.00**
	Add 12% GST (MF= 0.1405)				**1037.87**
	TOTAL				**8424.87**
	OVERHEADS & PROFIT @ 15 %				**1263.73**
	TOTAL				**9688.60**
	Rate for Each				9688.60
	Say				**9689.00**

2.1.7 320 A TP&N

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1607	315 A TPN switch fuse unit with ISI marked HRC fuses	each	1.00	10647.00	10647.00
2863	38mm X 10mm bolts & nuts	each	4.00	9.00	36.00
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
2934	Earthing thimbles and solder	L.S.	1.00	18.00	18.00
	Total cost of materials				10704.60
	Cartage @ 1 % of A1				107.05
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**11105.45**
	Add 12% GST (MF= 0.1405)				**1560.32**
	TOTAL				**12665.76**
	OVERHEADS & PROFIT @ 15 %				**1899.86**
	TOTAL				**14565.62**
	Rate for Each				14565.62
	Say				**14566.00**

2.1.8 400 A TP&N

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1608	400 A TPN switch fuse unit with ISI marked HRC fuses	each	1.00	13025.00 9.00	13025.00
2863	38mm X 10mm bolts & nuts	each	4.00		36.00
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
2934	Earthing thimbles and solder	L.S.	1.00	18.00	18.00
	Total cost of materials				**13082.60**

	Cartage @ 1 % of A1				130.83
	LABOUR				
1001	Wireman	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**13580.68**
	Add 12% GST (MF= 0.1405)				**1908.08**
	TOTAL				**15488.76**
	OVERHEADS & PROFIT @ 15 %				**2323.31**
	TOTAL				**17812.07**
	Rate for Each				17812.07
	Say				**17812.00**

2.2 Providing and fixing following rating and breaking capacity MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.

2.2.1 100 A, 16 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1610	3 pole MCCB, 100A, 16KA	each	1.00	2644.00	2644.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**2662.00**
	Cartage @ 1 % of A1				26.62
	LABOUR				
1001	Wireman	day	0.130	806.00	104.78
1007	Khallasi	day	0.130	663.00	86.19
	TOTAL				**2879.59**
	Add 12% GST (MF= 0.1405)				**404.58**
	TOTAL				**3284.17**
	OVERHEADS & PROFIT @ 15 %				**492.63**
	TOTAL				**3776.80**
	Rate for Each				3776.80
	Say				**3777.00**

2.2.2 125 A 16 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1611	3 pole MCCB, 125A, 16KA	each	1.00	3403.00	3403.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**3421.00**
	Cartage @ 1 % of A1				34.21

	LABOUR				
1001	Wireman	day	0.15	806.00	120.90
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**3675.56**
	Add 12% GST (MF= 0.1405)				**516.42**
	TOTAL				**4191.98**
	OVERHEADS & PROFIT @ 15 %				**628.80**
	TOTAL				**4820.78**
	Rate for Each				4820.78
	Say				**4821.00**

2.2.3 160 A, 16 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1612	3 pole MCCB, 150A, 16KA	each	1.00	4287.00	4287.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**4305.00**
	Cartage @ 1 % of A1				43.05
	LABOUR				
1001	Wireman	day	0.15	806.00	120.90
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**4568.40**
	Add 12% GST (MF= 0.1405)				**641.86**
	TOTAL				**5210.26**
	OVERHEADS & PROFIT @ 15 %				**781.54**
	TOTAL				**5991.80**
	Rate for Each				5991.80
	Say				**5992.00**

2.2.4 200 A, 16 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1613	3 pole MCCB, 200A, 16KA	each	1.00	5541.00	5541.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**5559.00**
	Cartage @ 1 % of A1				55.59
	LABOUR				
1001	Wireman	day	0.170	806.00	137.02
1007	Khallasi	day	0.170	663.00	112.71

	TOTAL	**5864.32**
	Add 12% GST (MF= 0.1405)	**823.94**
	TOTAL	**6688.26**
	OVERHEADS & PROFIT @ 15 %	**1003.24**
	TOTAL	**7691.50**
	Rate for Each	7691.50
	Say	**7691.00**

2.2.5 200 A, 25 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1614	3 pole MCCB, 200A, 25KA	each	1.00	8051.00	8051.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**8069.00**
	Cartage @ 1 % of A1				80.69
	LABOUR				
1001	Wireman	day	0.170	806.00	137.02
1007	Khallasi	day	0.170	663.00	112.71
	TOTAL				**8399.42**
	Add 12% GST (MF= 0.1405)				**1180.12**
	TOTAL				**9579.54**
	OVERHEADS & PROFIT @ 15 %				**1436.93**
	TOTAL				**11016.47**
	Rate for Each				11016.47
	Say				**11016.00**

2.2.6 250 A, 25 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1615	3 pole MCCB, 250A, 25KA	each	1.00	9522.00	9522.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**9540.00**
	Cartage @ 1 % of A1				95.40
	LABOUR				
1001	Wireman	day	0.180	806.00	145.08
1007	Khallasi	day	0.180	663.00	119.34
	TOTAL				**9899.82**

	Add 12% GST (MF= 0.1405)	**1390.92**
	TOTAL	**11290.74**
	OVERHEADS & PROFIT @ 15 %	**1693.61**
	TOTAL	**12984.35**
	Rate for Each	12984.35
	Say	**12984.00**

2.2.7 250 A, 35 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1616	3 pole MCCB, 250A, 35KA	each	1.00	10199.00	10199.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**10217.00**
	Cartage @ 1 % of A1				102.17
	LABOUR				
1001	Wireman	day	0.180	806.00	145.08
1007	Khallasi	day	0.180	663.00	119.34
	TOTAL				**10583.59**
	Add 12% GST (MF= 0.1405)				**1486.99**
	TOTAL				**12070.58**
	OVERHEADS & PROFIT @ 15 %				**1810.59**
	TOTAL				**13881.17**
	Rate for Each				13881.17
	Say				**13881.00**

2.2.8 315 A, 35 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1617	3 pole MCCB, 315A, 35KA	each	1.00	15986.00	15986.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**16004.00**
	Cartage @ 1 % of A1				160.04
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**16457.84**
	Add 12% GST (MF= 0.1405)				**2312.33**
	TOTAL				**18770.17**
	OVERHEADS & PROFIT @ 15 %				**2815.52**
	TOTAL				**21585.69**

	Rate for Each				21585.69
	Say				**21586.00**

2.2.9 400 A, 35 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1618	3 pole MCCB, 400A, 35KA	each	1.00	15986.00	15986.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**16004.00**
	Cartage @ 1 % of A1				16022.00
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**16457.84**
	Add 12% GST (MF= 0.1405)				**232.33**
	TOTAL				**18770.17**
	OVERHEADS & PROFIT @ 15 %				**2815.52**
	TOTAL				**21585.69**
	Rate for Each				21585.69
	Say				**21586.00**

2.2.10 500 A, 35 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1619	3 pole MCCB, 500A, 35KA	each	1.00	18909.00	18909.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**18927.00**
	Cartage @ 1 % of A1				189.27
	LABOUR				
1001	Wireman	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**19483.52**
	Add 12% GST (MF= 0.1405)				**2737.43**
	TOTAL				**22220.95**
	OVERHEADS & PROFIT @ 15 %				**3333.14**
	TOTAL				**25554.09**
	Rate for Each				25554.09
	Say				**25554.00**

2.2.11 630 A, 50 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1620	3 pole MCCB, 630A, 50KA	each	1.00	20650.00	20650.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**20668.00**
	Cartage @ 1 % of A1				206.68
	LABOUR				
1001	Wireman	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**21241.93**
	Add 12% GST (MF= 0.1405)				**2984.49**
	TOTAL				**24226.42**
	OVERHEADS & PROFIT @ 15 %				**3633.96**
	TOTAL				**27860.38**
	Rate for Each				27860.38
	Say				**27860.00**

2.2.12 800 A, 50 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1621	3 pole MCCB, 800A, 50KA	each	1.00	26915.00	26915.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**26933.00**
	Cartage @ 1 % of A1				269.33
	LABOUR				
1001	Wireman	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**27569.58**
	Add 12% GST (MF= 0.1405)				**3873.53**
	TOTAL				**31443.11**
	OVERHEADS & PROFIT @ 15 %				**4716.47**
	TOTAL				**36159.58**
	Rate for Each				36159.58
	Say				**36160.00**

2.2.13 100 A, 30 KA 4Pole

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1622	4 pole MCCB, 100A, 30KA	each	1.00	5623.00	5623.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**5641.00**
	Cartage @ 1 % of A1				56.41
	LABOUR				
1001	Wireman	day	0.130	806.00	104.78
1007	Khallasi	day	0.130	663.00	86.19
	TOTAL				**5888.38**
	Add 12% GST (MF= 0.1405)				**827.32**
	TOTAL				**6715.70**
	OVERHEADS & PROFIT @ 15 %				**1007.35**
	TOTAL				**7723.05**
	Rate for Each				7723.05
	Say				**7723.00**

2.2.14 125 A, 36 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1623	4 pole MCCB, 125A, 36KA	each	1.00	5961.00	5961.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**5979.00**
	Cartage @ 1 % of A1				59.79
	LABOUR				
1001	Wireman	day	0.15	806.00	120.90
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**6259.14**
	Add 12% GST (MF= 0.1405)				**879.41**
	TOTAL				**7138.55**
	OVERHEADS & PROFIT @ 15 %				**1070.78**
	TOTAL				**8209.33**
	Rate for Each				8209.33
	Say				**8209.00**

2.2.15 200 A, 36 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1624	4 pole MCCB, 200A, 36KA	each	1.00	11243.00	11243.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**11261.00**
	Cartage @ 1 % of A1				112.61
	LABOUR				
1001	Wireman	day	0.15	806.00	120.90
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**11593.96**
	Add 12% GST (MF= 0.1405)				**1628.95**
	TOTAL				**13222.91**
	OVERHEADS & PROFIT @ 15 %				**1983.44**
	TOTAL				**15206.35**
	Rate for Each				15206.35
	Say				**15206.00**

2.2.16 250 A, 36 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1625	4 pole MCCB, 250A, 36KA	each	1.00	12953.00	12953.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**12971.00**
	Cartage @ 1 % of A1				129.71
	LABOUR				
1001	Wireman	day	0.170	806.00	137.02
1007	Khallasi	day	0.170	663.00	112.71
	TOTAL				**13350.44**
	Add 12% GST (MF= 0.1405)				**1875.74**
	TOTAL				**15226.18**
	OVERHEADS & PROFIT @ 15 %				**2283.93**
	TOTAL				**17510.11**
	Rate for Each				17510.11
	Say				**17510.00**

2.2.17 250 A, 50 KA

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1626	4 pole MCCB, 250A, 50KA	each	1.00	13633.00	13633.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**13651.00**
	Cartage @ 1 % of A1				136.51
	LABOUR				
1001	Wireman	day	0.170	806.00	137.02
1007	Khallasi	day	0.170	663.00	112.71
	TOTAL				**14037.24**
	Add 12% GST (MF= 0.1405)				**1972.23**
	TOTAL				**16009.47**
	OVERHEADS & PROFIT @ 15 %				**2401.42**
	TOTAL				**18410.89**
	Rate for Each				18410.89
	Say				**18411.00**

2.2.18 400 A, 50 KA,4Pole

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1627	4 pole MCCB, 400A, 50KA	each	1.00	31928.00	31928.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				**31946.00**
	Cartage @ 1 % of A1				319.46
	LABOUR				
1001	Wireman	day	0.180	806.00	145.08
1007	Khallasi	day	0.180	663.00	119.34
	TOTAL				**32529.88**
	Add 12% GST (MF= 0.1405)				**4570.45**
	TOTAL				**37100.33**
	OVERHEADS & PROFIT @ 15 %				**5565.05**
	TOTAL				**42665.38**
	Rate for Each				42665.38
	Say				**42665.00**

2.2.19 630 A, 50 KA,FPMCCB

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1628	4 pole MCCB, 630A, 50KA	each	1.00	32250.00	32250.00
2861	25mm X 3mm bolts & nuts	each	4.00	3.60	14.40
2859	Rubber/ PVC bushes	each	4.00	0.90	3.60
	Total cost of materials				32268.00
	Cartage @ 1 % of A1				322.68
	LABOUR				
1001	Wireman	day	0.180	806.00	145.08
1007	Khallasi	day	0.180	663.00	119.34
	TOTAL				**32855.10**
	Add 12% GST (MF= 0.1405)				**4616.14**
	TOTAL				**37471.24**
	OVERHEADS & PROFIT @ 15 %				**5620.69**
	TOTAL				**43091.93**
	Rate for Each				43091.93
	Say				**43092.00**

2.3 Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)

2.3.1 6 way, Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1738	2+2 way, SPN, double door, MCB DB	each	1.00	1347.00	1347.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**1383.00**
	Cartage @ 1 % of A1				13.83
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1010	Mason, Grade 2	day	0.12	734.00	88.08
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**1681.99**
	Add 12% GST (MF= 0.1405)				**236.32**
	TOTAL				**1918.31**
	OVERHEADS & PROFIT @ 15 %				**287.75**
	TOTAL				**2206.06**
	Rate for Each				2206.06
	Say				**2206.00**

2.3.2 8 way, Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1739	2+4 way, SPN, double door, MCB DB	each	1.00	1624.00	1624.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**1660.00**
	Cartage @ 1 % of A1				16.60
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1010	Mason, Grade 2	day	0.12	734.00	88.08
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**1961.76**
	Add 12% GST (MF= 0.1405)				**275.63**
	TOTAL				**2237.39**
	OVERHEADS & PROFIT @ 15 %				**335.61**
	TOTAL				**2573.00**
	Rate for Each				2573.00
	Say				**2573.00**

2.3.3 12 way, Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1740	2+6 way, SPN, double door, MCB DB	each	1.00	1429.00	1429.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**1465.00**
	Cartage @ 1 % of A1				14.65
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1010	Mason, Grade 2	day	0.12	734.00	88.08
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**1764.81**
	Add 12% GST (MF= 0.1405)				**247.96**
	TOTAL				**2012.77**
	OVERHEADS & PROFIT @ 15 %				**301.91**
	TOTAL				**2314.68**
	Rate for Each				2314.68
	Say				**2315.00**

2.3.4 16 way, Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1741	2+10 way, SPN, double door, MCB DB	each	1.00	2053.00	2053.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**2089.00**
	Cartage @ 1 % of A1				20.89
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1010	Mason, Grade 2	day	0.12	734.00	88.08
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**2395.05**
	Add 12% GST (MF= 0.1405)				**336.50**
	TOTAL				**2731.55**
	OVERHEADS & PROFIT @ 15 %				**409.73**
	TOTAL				**3141.28**
	Rate for Each				3141.28
	Say				**3141.00**

2.4 Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)

2.4.1 4 way (4 + 12), Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1754	4 way (4+12), TPN, MCB DB, double door, horizontal type	each	1.00	2712.00	2712.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**2748.00**
	Cartage @ 1 % of A1				27.48
	LABOUR				
1001	Wireman	day	0.12	806.00	96.72
1010	Mason, Grade 2	day	0.12	734.00	88.08
1007	Khallasi	day	0.24	663.00	159.12
	TOTAL				**3119.40**
	Add 12% GST (MF= 0.1405)				**438.28**
	TOTAL				**3557.68**

	OVERHEADS & PROFIT @ 15 %				**533.65**
	TOTAL				**4091.33**
	Rate for Each				4091.33
	Say				**4091.00**

2.4.2 6 way (4 + 18), Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1755	6 way (4+18), TPN, MCB DB, double door, horizontal type	each	1.00	3378.00	3378.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**3414.00**
	Cartage @ 1 % of A1				34.14
	LABOUR				
1001	Wireman	day	0.12	806.00	96.72
1010	Mason, Grade 2	day	0.12	734.00	88.08
1007	Khallasi	day	0.24	663.00	159.12
	TOTAL				**3792.06**
	Add 12% GST (MF= 0.1405)				**532.78**
	TOTAL				**4324.84**
	OVERHEADS & PROFIT @ 15 %				**648.73**
	TOTAL				**4973.57**
	Rate for Each				4973.57
	Say				**4974.00**

2.4.3 8 way (4 + 24), Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1756	8 way (4+24), TPN, MCB DB, double door, horizontal type	each	1.00	4128.00	4128.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**4164.00**
	Cartage @ 1 % of A1				41.64
	LABOUR				
1001	Wireman	day	0.12	806.00	96.72
1010	Mason, Grade 2	day	0.12	734.00	88.08
1007	Khallasi	day	0.24	663.00	159.12
	TOTAL				**4549.56**
	Add 12% GST (MF= 0.1405)				**639.21**

	TOTAL	**5188.77**
	OVERHEADS & PROFIT @ 15 %	**778.32**
	TOTAL	**5967.09**
	Rate for Each	5967.09
	Say	**5967.00**

2.5 Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 As tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)

2.5.1 4 way (4 + 12), Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1760	4 way (4+12), TPN, vertical type, MCB DB, double door	each	1.00	5294.00	5294.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**5330.00**
	Cartage @ 1 % of A1				53.30
	LABOUR				96.72
1001	Wireman	day	0.12	806.00	88.08
1010	Mason, Grade 2	day	0.12	734.00	159.12
1007	Khallasi	day	0.24	663.00	**5727.22**
	TOTAL				**804.67**
	Add 12% GST (MF= 0.1405)				**6531.89**
	TOTAL				**979.78**
	OVERHEADS & PROFIT @ 15 %				**7511.67**
	TOTAL				7511.67
	Rate for Each				**7512.00**
	Say				

2.5.2 8 way (4 + 24), Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1761	8 way (4+24), TPN, vertical type, MCB DB, double door	each	1.00	7297.00	7297.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**7333.00**

	Cartage @ 1 % of A1				73.33
	LABOUR				
1001	Wireman	day	0.12	806.00	96.72
1010	Mason, Grade 2	day	0.12	734.00	88.08
1007	Khallasi	day	0.24	663.00	159.12
	TOTAL				**7750.25**
	Add 12% GST (MF= 0.1405)				**1088.91**
	TOTAL				**8839.16**
	OVERHEADS & PROFIT @ 15 %				**1325.87**
	TOTAL				**10165.03**
	Rate for Each				10165.03
	Say				**10165.00**

2.5.3 12 way (4 + 36), Double door

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1762	12 way (4+36), TPN, vertical type, MCB DB, double door	each	1.00	9311.00	9311.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**9347.00**
	Cartage @ 1 % of A1				93.47
	LABOUR				
1001	Wireman	day	0.12	806.00	96.72
1010	Mason, Grade 2	day	0.12	734.00	88.08
1007	Khallasi	day	0.24	663.00	159.12
	TOTAL				**9784.39**
	Add 12% GST (MF= 0.1405)				**1374.71**
	TOTAL				**11159.10**
	OVERHEADS & PROFIT @ 15 %				**1673.86**
	TOTAL				**12832.96**
	Rate for Each				12832.96
	Say				**12833.00**

2.6 DELETED

2.7 DELETED

2.8 DELETED

2.9 DELETED

2.10 Supplying and fixing 5 A to 32 As rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.

2.10.1 Single pole

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1706	6 A to 32 A ratings , SP MCB, "C" curve, 10 KA breaking capacity	each	1.00	135.00	135.00
	Total cost of materials				**135.00**
	Cartage @ 1 % of A1				1.35
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**195.11**
	Add 12% GST (MF= 0.1405)				**27.41**
	TOTAL				**222.52**
	OVERHEADS & PROFIT @ 15 %				**33.38**
	TOTAL				**255.90**
	Rate for Each				255.90
	Say				**256.00**

2.10.2 Single pole and neutral

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1707	6 A to 32 A ratings , SPN MCB, "C" curve, 10 KA breaking capacity	each	1.00	394.00	394.00
	Total cost of materials				**394.00**
	Cartage @ 1 % of A1				3.94
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**456.70**
	Add 12% GST (MF= 0.1405)				**64.17**
	TOTAL				**520.87**
	OVERHEADS & PROFIT @ 15 %				**78.13**
	TOTAL				**599.00**
	Rate for Each				599.00
	Say				**599.00**

2.10.3 Double pole

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1708	6 A to 32 A ratings , DP MCB, "C" curve, 10 KA breaking capacity	each	1.00	437.00	437.00
	Total cost of materials				**437.00**
	Cartage @ 1 % of A1				4.37
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**500.13**
	Add 12% GST (MF= 0.1405)				**70.27**
	TOTAL				**570.40**
	OVERHEADS & PROFIT @ 15 %				**85.56**
	TOTAL				**655.96**
	Rate for Each				655.96
	Say				**656.00**

2.10.4 Triple pole

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1709	6 A to 32 A ratings , TP MCB, "C" curve, 10 KA breaking capacity	each	1.00	702.00	702.00
	Total cost of materials				**702.00**
	Cartage @ 1 % of A1				7.02
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**767.78**
	Add 12% GST (MF= 0.1405)				**107.87**
	TOTAL				**875.65**
	OVERHEADS & PROFIT @ 15 %				**131.35**
	TOTAL				**1007.00**
	Rate for Each				1007.00
	Say				**1007.00**

2.10.5 Triple pole and neutral

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1710	6 A to 32 A ratings , TPN MCB, "C" curve, 10 KA breaking capacity	each	1.00	869.00	869.00
	Total cost of materials				**869.00**
	Cartage @ 1 % of A1				8.69
	LABOUR				

1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**936.45**
	Add 12% GST (MF= 0.1405)				**131.57**
	TOTAL				**1068.02**
	OVERHEADS & PROFIT @ 15 %				**160.20**
	TOTAL				**1228.22**
	Rate for Each				1228.22
	Say				**1228.00**

2.11 Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1711	Single pole, blanking plate	each	1.00	8.00	8.00
	Total cost of materials				**8.00**
	Cartage @ 1 % of A1				0.08
	LABOUR				
1001	Wireman	day	0.001	806.00	0.81
1007	Khallasi	day	0.001	663.00	0.66
	TOTAL				**9.55**
	Add 12% GST (MF= 0.1405)				**1.34**
	TOTAL				**10.89**
	OVERHEADS & PROFIT @ 15 %				**1.63**
	TOTAL				**12.52**
	Rate for Each				12.52
	Say				**13.00**

2.12 Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.

2.12.1 40 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1712	40 A, 2 pole isolator	each	1.00	270.00	270.00
	Total cost of materials				**270.00**
	Cartage @ 1 % of A1				2.70
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**331.46**

	Add 12% GST (MF= 0.1405)				**46.57**
	TOTAL				**378.03**
	OVERHEADS & PROFIT @ 15 %				**56.70**
	TOTAL				**434.73**
	Rate for Each				434.73
	Say				**435.00**

2.12.2 63 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1713	63 A, 2 pole isolator	each	1.00	340.00	340.00
	Total cost of materials				**340.00**
	Cartage @ 1 % of A1				3.40
	LABOUR				
1001	Wireman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**402.16**
	Add 12% GST (MF= 0.1405)				**56.50**
	TOTAL				**458.66**
	OVERHEADS & PROFIT @ 15 %				**68.80**
	TOTAL				**527.46**
	Rate for Each				527.46
	Say				**527.00**

2.13 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.

2.13.1 40 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1714	40 A, 4 pole isolator	each	1.00	616.00	616.00
	Total cost of materials				**616.00**
	Cartage @ 1 % of A1				6.16
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**739.68**
	Add 12% GST (MF= 0.1405)				**103.93**
	TOTAL				**843.61**
	OVERHEADS & PROFIT @ 15 %				**126.54**
	TOTAL				**970.15**

	Rate for Each				970.15
	Say				**970.00**

2.13.2 63 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1715	63 A, 4 pole isolator	each	1.00	664.00	664.00
	Total cost of materials				**664.00**
	Cartage @ 1 % of A1				6.64
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**788.16**
	Add 12% GST (MF= 0.1405)				**110.74**
	TOTAL				**898.90**
	OVERHEADS & PROFIT @ 15 %				**134.83**
	TOTAL				**1033.73**
	Rate for Each				1033.73
	Say				**1034.00**

2.13.3 100 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1716	100 A, 4 pole isolator	each	1.00	810.00	810.00
	Total cost of materials				**810.00**
	Cartage @ 1 % of A1				8.10
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**935.62**
	Add 12% GST (MF= 0.1405)				**131.45**
	TOTAL				**1067.07**
	OVERHEADS & PROFIT @ 15 %				**160.06**
	TOTAL				**1227.13**
	Rate for Each				1227.13
	Say				**1227.00**

2.14 Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 milli Aeres in the existing MCB DB complete with connections, testing and commissioning etc. as required.

2.14.1 25 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1717	25 A rating, 2 pole RCCB, 30 mA	each	1.00	1458.00	1458.00
	Total cost of materials				**1458.00**
	Cartage @ 1 % of A1				14.58
	LABOUR				
1001	Wireman	day	0.05	806.00	40.30
1007	Khallasi	day	0.05	663.00	33.15
	TOTAL				**1546.03**
	Add 12% GST (MF= 0.1405)				**217.22**
	TOTAL				**1763.25**
	OVERHEADS & PROFIT @ 15 %				**264.49**
	TOTAL				**2027.74**
	Rate for Each				2027.74
	Say				**2028.00**

2.13 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.

2.13.1 40 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1718	40 A rating, 2 pole RCCB, 30 mA	each	1.00	1922.00	1922.00
	Total cost of materials				**1922.00**
	Cartage @ 1 % of A1				19.22
	LABOUR				
1001	Wireman	day	0.05	806.00	40.30
1007	Khallasi	day	0.05	663.00	33.15
	TOTAL				**2014.67**
	Add 12% GST (MF= 0.1405)				**283.06**
	TOTAL				**2297.73**
	OVERHEADS & PROFIT @ 15 %				**344.66**
	TOTAL				**2642.39**
	Rate for Each				2642.39
	Say				**2642.00**

2.14.3 63 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1719	63 A rating, 2 pole RCCB, 30 mA	each	1.00	1982.00	1982.00
	Total cost of materials				**1982.00**
	Cartage @ 1 % of A1				19.82
	LABOUR				
1001	Wireman	day	0.05	806.00	40.30
1007	Khallasi	day	0.05	663.00	33.15
	TOTAL				**2075.27**
	Add 12% GST (MF= 0.1405)				**291.58**
	TOTAL				**2366.85**
	OVERHEADS & PROFIT @ 15 %				**355.03**
	TOTAL				**2721.88**
	Rate for Each				2721.88
	Say				**2722.00**

2.15 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 milli Aeres in the existing MCB DB complete with connections, testing and commissioning etc. as required.

2.15.1 25 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1720	25 A rating, 4 pole RCCB, 30 mA	each	1.00	1836.00	1836.00
	Total cost of materials				**1836.00**
	Cartage @ 1 % of A1				18.36
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**1971.88**
	Add 12% GST (MF= 0.1405)				**277.05**
	TOTAL				**2248.93**
	OVERHEADS & PROFIT @ 15 %				**337.34**
	TOTAL				**2586.27**
	Rate for Each				2586.27
	Say				**2586.00**

2.15.2 40 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1721	40 A rating, 4 pole RCCB, 30 mA	each	1.00	2290.00	2290.00
	Total cost of materials				**2290.00**
	Cartage @ 1 % of A1				22.90
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**2430.42**
	Add 12% GST (MF= 0.1405)				**341.47**
	TOTAL				**2771.89**
	OVERHEADS & PROFIT @ 15 %				**415.78**
	TOTAL				**3187.67**
	Rate for Each				3187.67
	Say				**3188.00**

2.15.3 63 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1722	63 A rating, 4 pole RCCB, 30 mA	each	1.00	2052.00	2052.00
	Total cost of materials				**2052.00**
	Cartage @ 1 % of A1				20.52
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**2190.04**
	Add 12% GST (MF= 0.1405)				**307.70**
	TOTAL				**2497.74**
	OVERHEADS & PROFIT @ 15 %				**374.66**
	TOTAL				**2872.40**
	Rate for Each				2872.40
	Say				**2872.00**

2.16 Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32A 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1742	Sheet steel DP MCB enclosure	each	1.00	300.00	300.00
1708	6 A to 32 A ratings , DP MCB, "C" curve, 10 KA breaking capacity	each	1.00	437.00	437.00
	Total cost of materials				**737.00**
	Cartage @ 1 % of A1				7.37
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**891.27**
	Add 12% GST (MF= 0.1405)				**125.22**
	TOTAL				**1016.49**
	OVERHEADS & PROFIT @ 15 %				**152.47**
	TOTAL				**1168.96**
	Rate for Each				1168.96
	Say				**1169.00**

2.17 Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32A 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1743	Sheet steel TP MCB enclosure	each	1.00	354.00	354.00
1709	6 A to 32 A ratings , TP MCB, "C" curve, 10 KA breaking capacity	each	1.00	702.00	702.00
	Total cost of materials				**1056.00**
	Cartage @ 1 % of A1				10.56
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1213.46**
	Add 12% GST (MF= 0.1405)				**170.49**
	TOTAL				**1383.95**
	OVERHEADS & PROFIT @ 15 %				**207.59**
	TOTAL				**1591.54**
	Rate for Each				1591.54
	Say				**1592.00**

2.18 Supplying and fixing 20 A, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1730	20 A SPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1.00	680.00	680.00
1706	6 As. to 32 As. ratings , SP MCB, "C" curve, 10 KA breaking capacity	each	1.00	135.00	135.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**851.00**
	Cartage @ 1 % of A1				8.51
	LABOUR				
1001	Wireman	day	0.180	806.00	145.08
1010	Mason, Grade 2	day	0.180	734.00	132.12
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**1236.16**
	Add 12% GST (MF= 0.1405)				**173.68**
	TOTAL				**1409.84**
	OVERHEADS & PROFIT @ 15 %				**211.48**
	TOTAL				**1621.32**
	Rate for Each				1621.32
	Say				**1621.00**

2.19 Supplying and fixing 20 A, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1731	20 A TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1.00	997.00	997.00
1709	6 A to 32 A ratings , TP MCB, "C" curve, 10 KA breaking capacity	each	1.00	702.00	702.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80

2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**1735.00**
	Cartage @ 1 % of A1				17.35
	LABOUR				
1001	Wireman	day	0.080	806.00	64.48
1010	Mason, Grade 2	day	0.080	734.00	58.72
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**1975.00**
	Add 12% GST (MF= 0.1405)				**277.49**
	TOTAL				**2252.49**
	OVERHEADS & PROFIT @ 15 %				**337.87**
	TOTAL				**2590.36**
	Rate for Each				2590.36
	Say				**2590.00**

2.20 Supplying and fixing 30 A, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1732	30 A TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1.00	2142.00	2142.00
1709	6 A to 32 A ratings , TP MCB, "C" curve, 10 KA breaking capacity	each	1.00	702.00	702.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**2880.00**
	Cartage @ 1 % of A1				28.80
	LABOUR				
1001	Wireman	day	0.080	806.00	64.48
1010	Mason, Grade 2	day	0.080	734.00	58.72
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**3131.45**
	Add 12% GST (MF= 0.1405)				**439.97**
	TOTAL				**3571.42**
	OVERHEADS & PROFIT @ 15 %				**535.71**
	TOTAL				**4107.13**
	Rate for Each				4107.13
	Say				**4107.00**

2.21 Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2933	200 mm X 150 mm M.V. danger notice plate	each	1.00	54.00	54.00
2865	15 mm long X 6 mm dia G.I. bolts and nuts	each	6.00	5.40	32.40
	Total cost of materials				**86.40**
	Cartage @ 1 % of A1				0.86
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**204.78**
	Add 12% GST (MF= 0.1405)				**28.77**
	TOTAL				**233.56**
	OVERHEADS & PROFIT @ 15 %				**35.03**
	TOTAL				**268.59**
	Rate for Each				268.59
	Say				**269.00**

2.22 Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2932	250 mm X 200 mm H.T. danger notice plate	each	1.00	72.00	72.00
2865	15 mm long X 6 mm dia G.I. bolts and nuts	each	6.00	5.40	32.40
	Total cost of materials				**104.40**
	Cartage @ 1 % of A1				1.04
	LABOUR				
1001	Wireman	day	0.080	806.00	64.48
1007	Khallasi	day	0.080	663.00	53.04
	TOTAL				**222.96**
	Add 12% GST (MF= 0.1405)				**31.33**
	TOTAL				**254.29**
	OVERHEADS & PROFIT @ 15 %				**38.14**
	TOTAL				**292.43**
	Rate for Each				292.43
	Say				**292.00**

2.23 Supplying and fixing Cable End Boxes (IP 43) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with testing and commissioning etc. as required.

2.23.1 For 6 way, Double door SPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for one each				
	MATERIALS				
1801	Cable End Boxes for 6 Way SPN DD DB	each	1.00	371.82	371.82
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**407.82**
	Cartage @ 1 %				4.08
	LABOUR				
1001	Wireman	day	0.06	806.00	48.36
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**573.44**
	Add 12% GST (MF= 0.1405)				**80.57**
	TOTAL				**654.01**
	Add 15 % Over Head & Contractor Profit				**98.10**
	TOTAL				**752.11**
	Rate for Each				752.11
	Say				**752.00**

2.23.2 For 8 way, Double door SPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for one each				
	MATERIALS				
1802	Cable End Boxes for 8 Way SPN DD DB	each	1.00	432.42	432.42
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**468.42**
	Cartage @ 1 %				4.68
	LABOUR				
1001	Wireman	day	0.06	806.00	48.36
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**634.64**
	Add 12% GST (MF= 0.1405)				**89.17**
	TOTAL				**723.81**
	Add 15 % Over Head & Contractor Profit				**108.57**
	TOTAL				**832.38**
	Rate for Each				832.38
	Say				**832.00**

2.23.3 For 10 way, Double door SPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for one each				
	MATERIALS				
1803	Cable End Boxes for 10 Way SPN DD DB	each	1.00	415.89	415.89
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**451.89**
	Cartage @ 1 %				4.52
	LABOUR				
1001	Wireman	day	0.06	806.00	48.36
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**617.95**
	Add 12% GST (MF= 0.1405)				**86.82**
	TOTAL				**704.77**
	Add 15 % Over Head & Contractor Profit				**105.72**
	TOTAL				**810.49**
	Rate for Each				810.49
	Say				**810.00**

2.23.4 For 14 way, Double door SPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for one each				
	MATERIALS				
1804	Cable End Boxes for 14 Way SPN DD DB	each	1.00	484.75	484.75
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**520.75**
	Cartage @ 1 %				5.21
	LABOUR				
1001	Wireman	day	0.06	806.00	48.36
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**687.50**
	Add 12% GST (MF= 0.1405)				**96.59**
	TOTAL				**784.09**
	Add 15 % Over Head & Contractor Profit				**117.61**
	TOTAL				**901.70**
	Rate for Each				901.70
	Say				**902.00**

2.24 Supplying and fixing Cable End Boxes (IP 43) suitable for following tripple pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with testing and commissioning etc.

2.24.1 For 4 way, Double door TPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for one each				
	MATERIALS				
1805	Cable End Boxes for 4 Way TPN DD DB	each	1.00	619.70	619.70
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**655.70**
	Cartage @ 1 %				6.56
	LABOUR				
1001	Wireman	day	0.06	806.00	48.36
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**823.80**
	Add 12% GST (MF= 0.1405)				**115.74**
	TOTAL				**939.54**
	Add 15 % Over Head & Contractor Profit				**140.93**
	TOTAL				**1080.47**
	Rate for Each				1080.47
	Say				**1080.00**

2.24.2 For 6 way, Double door TPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for one each				
	MATERIALS				
1806	Cable End Boxes for 6 Way TPN DD DB	each	1.00	652.75	652.75
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				688.75
	Cartage @ 1 %				6.89
	LABOUR				
1001	Wireman	day	0.06	806.00	48.36
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**857.18**
	Add 12% GST (MF= 0.1405)				**120.43**
	TOTAL				**977.61**
	Add 15 % Over Head & Contractor Profit				**146.64**
	TOTAL				**1124.25**
	Rate for Each				1124.25
	Say				**1124.00**

2.24.3 For 8 way, Double door TPN MCBDB

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for one each				
	MATERIALS				
1807	Cable End Boxes for 8 Way TPN DD DB	each	1.00	815.25	815.25
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**851.25**
	Cartage @ 1 %				8.51
	LABOUR				
1001	Wireman	day	0.06	806.00	48.36
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**1021.30**
	Add 12% GST (MF= 0.1405)				**143.49**
	TOTAL				**1164.80**
	Add 15 % Over Head & Contractor Profit				**174.72**
	TOTAL				**1339.51**
	Rate for Each				1339.51
	Say				**1340.00**

2.25 Supplying and fixing Cable End Boxes (IP 43) suitable for tripple pole and neutral, sheet steel, Vertical MCB distribution board, 415 volts, on surface/ recess, complete with testing and commissioning etc.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	Details of cost for one each				
	MATERIALS				
1808	Cable End Boxes for Vertical TPN DD DB	each	1.00	687.60	687.60
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2935	Cement, paint, sand etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**723.60**
	Cartage @ 1 %				7.24
	LABOUR				
1001	Wireman	day	0.06	806.00	48.36
1010	Mason, Grade 2	day	0.10	734.00	73.40
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**892.38**
	Add 12% GST (MF= 0.1405)				**125.38**
	TOTAL				**1017.75**
	Add 15 % Over Head & Contractor Profit				**152.66**
	TOTAL				**1170.42**
	Rate for Each				1170.42
	Say				**1170.00**

CHAPTER 3 – RISING MAINS & BUS TRUNKING

3.1 Supplying, installing on wall, testing and commissioning of following capacity rising mains made of 1.6mm thick IP 42 sheet steel enclosure duly painted with powder coating, wall straps, fully PVC insulated 4 Nos aluminium bus bars having current density of 130 A/ sq cm at nominal current rating in convenient sections and suitable for 415 volts, 3 phase, 4 wire, 50 Hz, A.C. supply with extension joints, fire proof barriers, expansion joints, thrust pads including jointing, and earthing with 2 runs of galvanised iron strips etc. as required. (Rising mains confirming to IS 8623, TEC 439)

3.1.1 200 A (Isc=15 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1501	200 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	10.00	5056.00	50560.00
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.5m = 3.5m @ 2.1 kg/m = 7.35kg	kg	7.35	56.00	411.60
	Total cost of materials				**50971.60**
	Cartage @ 1 % of A1				509.72
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**55816.32**
	Add 12% GST (MF= 0.1405)				**7842.19**
	TOTAL				**63658.51**
	OVERHEADS & PROFIT @ 15 %				**9548.78**
	Cost for 10 meter				**73207.29**
	Rate per meter				7320.73
	Say				**7321.00**

3.1.2 300 A (Isc=20 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1501	300 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	10.00	5286.00	52860.00
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.5m = 3.5m @ 2.1 kg/m = 7.35kg	kg	7.35	56.00	411.60
	Total cost of materials				**53271.60**
	Cartage @ 1 % of A1				532.72
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**58139.32**
	Add 12% GST (MF= 0.1405)				**8168.57**
	TOTAL				**66307.89**
	OVERHEADS & PROFIT @ 15 %				**9946.18**
	Cost for 10 meter				**76254.07**
	Rate per meter				7625.41
	Say				**7625.00**

3.1.3 400 A (Isc=25 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1503	400 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	10.00	6550.00	65500.00
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.5m = 3.5m @ 2.1 kg/m = 7.35kg	kg	7.35	56.00	411.60
	Total cost of materials				**65911.60**
	Cartage @ 1 % of A1				659.12
	LABOUR				
1001	Wireman	day	2.25	806.00	1813.50
1010	Mason, Grade 2	day	1.00	734.00	734.00

1007	Khallasi	day	3.25	663.00	2154.75
	TOTAL				**71272.97**
	Add 12% GST (MF= 0.1405)				**10013.85**
	TOTAL				**81286.82**
	OVERHEADS & PROFIT @ 15 %				**12193.02**
	Cost for 10 meter				**93479.84**
	Rate per meter				**9347.98**
	Say				**9348.00**

3.1.4 600 A (Isc=45 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1504	600 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	10.00	7355.00	73550.00
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.6m = 4.2m @ 2.1 kg/m = 8.82kg	kg	8.82	56.00	493.92
	Total cost of materials				**74043.92**
	Cartage @ 1 % of A1				740.44
	LABOUR				
1001	Wireman	day	2.25	806.00	1813.50
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.25	663.00	2154.75
	TOTAL				**79486.61**
	Add 12% GST (MF= 0.1405)				**11167.87**
	TOTAL				**90654.48**
	OVERHEADS & PROFIT @ 15 %				**13598.17**
	Cost for 10 meter				**104252.65**
	Rate per meter				10425.26
	Say				**10425.00**

3.1.5 800 A (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)

	MATERIALS				
1505	800 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	meter	10.00	8906.00	89060.00
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.6m = 4.2m @ 2.1 kg/m = 8.82kg	kg	8.82	56.00	493.92
	Total cost of materials				**89553.92**
	Cartage @ 1 % of A1				895.54
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**95518.96**
	Add 12% GST (MF= 0.1405)				**13420.41**
	TOTAL				**108939.37**
	OVERHEADS & PROFIT @ 15 %				**16340.91**
	Cost for 10 meter				**125280.28**
	Rate per meter				12528.03
	Say				**12528.00**

3.2 Supplying, installing, testing and commissioning of following capacity TPN tap off box made of 1.6mm thick sheet steel enclosure duly painted with powder coating on existing rising mains complete with TPN disconnector FSU and HRC fuses, connections, earthing etc. as required.

3.2.1 16 A TPN
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1541	16 A TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	meter	1.00	6000.00	6000.00
	Total cost of materials				**6000.00**
	Cartage @ 1 % of A1				60.00
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**6206.90**
	Add 12% GST (MF= 0.1405)				**872.07**

	TOTAL				**7078.97**
	OVERHEADS & PROFIT @ 15 %				**1061.85**
	TOTAL				**8140.82**
	Rate per Each				8140.82
	Say				**8141.00**

3.2.2 32 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1542	32 A TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	each	1.00	7560.75	7560.75
	Total cost of materials				**7560.75**
	Cartage @ 1 % of A1				75.61
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**7783.26**
	Add 12% GST (MF= 0.1405)				**1093.55**
	TOTAL				**8876.81**
	OVERHEADS & PROFIT @ 15 %				**1331.52**
	TOTAL				**10208.33**
	Rate per Each				10208.33
	Say				**10208.00**

3.2.3 63 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1543	63 A TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	each	1.00	8523.00	8523.00
	Total cost of materials				**8523.00**
	Cartage @ 1 % of A1				85.23
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78

1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**8799.20**
	Add 12% GST (MF= 0.1405)				**1236.29**
	TOTAL				**10035.49**
	OVERHEADS & PROFIT @ 15 %				**1505.32**
	TOTAL				**11540.81**
	Rate per Each				11540.81
	Say				**11541.00**

3.2.4 100 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1544	100 A TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	each	1.00	10535.25	10535.25
	Total cost of materials				**10535.25**
	Cartage @ 1 % of A1				105.35
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**10831.57**
	Add 12% GST (MF= 0.1405)				**1521.84**
	TOTAL				**12353.41**
	OVERHEADS & PROFIT @ 15 %				**1853.01**
	TOTAL				**14206.42**
	Rate per Each				14206.42
	Say				**14206.00**

3.2.5 200 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1545	200 A TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	each	1.00	14005.50	14005.50
	Total cost of materials				**14005.50**

	Cartage @ 1 % of A1				140.06
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**14395.29**
	Add 12% GST (MF= 0.1405)				**2022.54**
	TOTAL				**16417.82**
	OVERHEADS & PROFIT @ 15 %				**2462.67**
	TOTAL				**18880.49**
	Rate per Each				**18880.49**
	Say				**18880.00**

3.2.6 315 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1546	315 A TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	each	1.00	19124.25	19124.25
	Total cost of materials				**19124.25**
	Cartage @ 1 % of A1				191.24
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**19565.22**
	Add 12% GST (MF= 0.1405)				**2748.91**
	TOTAL				**22314.14**
	OVERHEADS & PROFIT @ 15 %				**3347.12**
	TOTAL				**25661.26**
	Rate per Each				25661.26
	Say				**25661.00**

3.2 Supplying, installing, testing and commissioning of following capacity TPN tap off box made of 1.6mm thick sheet steel enclosure duly painted with powder coating on existing rising mains complete with TPN disconnector FSU and HRC fuses, connections, earthing etc. as required.

3.2.7 400 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1547	400 A TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	No	1.00	21800.25	21800.25
	Total cost of materials				**21800.25**
	Cartage @ 1 % of A1				218.00
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**22267.98**
	Add 12% GST (MF= 0.1405)				**3128.65**
	TOTAL				**25396.63**
	OVERHEADS & PROFIT @ 15 %				**3809.50**
	TOTAL				**29206.13**
	Rate per Each				29206.13
	Say				**29206.00**

3.3 Supplying, installing, testing and commissioning of following capacity TPN distribution tap off box made of 1.6mm thick sheet steel enclosure duly painted with powder coating on existing rising mains complete with HRC fuses, interconnections, earthing etc. as required.

3.3.1 16 A TPN, 2 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1511	116 A TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	meter	1.00	9029.00	9029.00
	Total cost of materials				**9029.00**
	Cartage @ 1 % of A1				90.29
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**9310.26**
	Add 12% GST (MF= 0.1405)				**1308.09**

	TOTAL	**10618.35**
	OVERHEADS & PROFIT @ 15 %	**1592.75**
	TOTAL	**12211.10**
	Rate per Each	12211.10
	Say	**12211.00**

3.3.2 16 A TPN, 4 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1512	16 A TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	20357.00	20357.00
	Total cost of materials				**20357.00**
	Cartage @ 1 % of A1				203.57
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**20751.54**
	Add 12% GST (MF= 0.1405)				**2915.59**
	TOTAL				**23667.13**
	OVERHEADS & PROFIT @ 15 %				**3550.07**
	TOTAL				**27217.20**
	Rate per Each				27217.20
	Say				**27217.00**

3.3.3 16 A TPN, 6 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1513	16 A TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	28894.00	28894.00
	Total cost of materials				**28894.00**
	Cartage @ 1 % of A1				288.94
	LABOUR				
1001	Wireman	day	0.15	806.00	120.90
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**29403.29**

	Add 12% GST (MF= 0.1405)				**4131.16**
	TOTAL				**33534.45**
	OVERHEADS & PROFIT @ 15 %				**5030.17**
	TOTAL				**38564.62**
	Rate per Each				38564.62
	Say				**38565.00**

3.3.4 16 A TPN, 8 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1514	16 A TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	40057.00	40057.00
	Total cost of materials				**40057.00**
	Cartage @ 1 % of A1				400.57
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**40707.30**
	Add 12% GST (MF= 0.1405)				**5719.38**
	TOTAL				**46426.68**
	OVERHEADS & PROFIT @ 15 %				**6964.00**
	TOTAL				**53390.68**
	Rate per Each				53390.68
	Say				**53391.00**

3.3.5 32 A TPN, 2 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1515	32 A TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	11164.00	11164.00
	Total cost of materials				**11164.00**
	Cartage @ 1 % of A1				111.64
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**11466.61**

	Add 12% GST (MF= 0.1405)	**1611.06**
	TOTAL	**13077.67**
	OVERHEADS & PROFIT @ 15 %	**1961.65**
	TOTAL	**15039.32**
	Rate per Each	15039.32
	Say	**15039.00**

3.3.6 32 A TPN, 4 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1516	32 A TPN, 4 way distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	22984.00	22984.00
	Total cost of materials				**22984.00**
	Cartage @ 1 % of A1				229.84
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**23404.81**
	Add 12% GST (MF= 0.1405)				**3288.38**
	TOTAL				**26693.19**
	OVERHEADS & PROFIT @ 15 %				**4003.98**
	TOTAL				**30697.17**
	Rate per Each				30697.17
	Say				**30697.00**

3.3.7 32 A TPN, 6 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1517	32 A TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	30206.00	30206.00
	Total cost of materials				**30206.00**
	Cartage @ 1 % of A1				302.06
	LABOUR				
1001	Wireman	day	0.15	806.00	120.90
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**30728.41**

	Add 12% GST (MF= 0.1405)				**4317.34**
	TOTAL				**35045.75**
	OVERHEADS & PROFIT @ 15 %				**5256.86**
	TOTAL				**40302.61**
	Rate per Each				40302.61
	Say				**40303.00**

3.3.8 32 A TPN, 8 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1518	32 A TPN, 8 way distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	42026.00	42026.00
	Total cost of materials				**42026.00**
	Cartage @ 1 % of A1				420.26
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**42695.99**
	Add 12% GST (MF= 0.1405)				**5998.79**
	TOTAL				**48694.78**
	OVERHEADS & PROFIT @ 15 %				**7304.22**
	TOTAL				**55999.00**
	Rate per Each				55999.00
	Say				**55999.00**

3.3.9 63 A TPN, 2 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1519	63 A TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	12739.00	12739.00
	Total cost of materials				**12739.00**
	Cartage @ 1 % of A1				127.39
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**13057.36**

	Add 12% GST (MF= 0.1405)				**1834.56**
	TOTAL				**14891.92**
	OVERHEADS & PROFIT @ 15 %				**2233.79**
	TOTAL				**17125.71**
	Rate per Each				17125.71
	Say				**17126.00**

3.3.10 63 A TPN, 4 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1520	63 A TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	21670.00	21670.00
	Total cost of materials				**21670.00**
	Cartage @ 1 % of A1				216.70
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**22077.67**
	Add 12% GST (MF= 0.1405)				**3101.91**
	TOTAL				**25179.58**
	OVERHEADS & PROFIT @ 15 %				**3776.94**
	TOTAL				**28956.52**
	Rate per Each				28956.52
	Say				**28957.00**

3.3.11 63 A TPN, 6 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1521	63 A TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	23377.00	23377.00
	Total cost of materials				**23377.00**
	Cartage @ 1 % of A1				233.77
	LABOUR				
1001	Wireman	day	0.15	806.00	120.90
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**23831.12**

	Add 12% GST (MF= 0.1405)	**3348.27**
	TOTAL	**27179.39**
	OVERHEADS & PROFIT @ 15 %	**4076.91**
	TOTAL	**31256.30**
	Rate per Each	31256.30
	Say	**31256.00**

3.3.12 63 A TPN, 8 way

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1522	63 A. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	40320.00	40320.00
	Total cost of materials				**40320.00**
	Cartage @ 1 % of A1				403.20
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**40972.93**
	Add 12% GST (MF= 0.1405)				**5756.70**
	TOTAL				**46729.63**
	OVERHEADS & PROFIT @ 15 %				**7009.44**
	TOTAL				**53739.07**
	Rate per Each				53739.07
	Say				**53739.00**

3.4 Supplying, installing, testing and commissioning of following capacity End Feed Unit made of 1.6mm thick sheet steel enclosure duly painted with powder coating to existing rising mains complete with TPN disconnector FSU and HRC fuses, mounting stands, cable end box, brass compression gland, connections, earthing etc. as required.

3.4.1 200 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1526	200 A TPN, adaptor box with cable end box, with TPN disconnector FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.00	18124.00	18124.00

2211	Aluminium lugs for 185 sq. mm cable	each	3.00	27.75	83.25
2208	Aluminium lugs for 95 sq. mm cable	each	3.00	12.38	12.38
	Total cost of materials				**18219.63**
	Cartage @ 1 % of A1				182.20
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**18651.56**
	Add 12% GST (MF= 0.1405)				**2620.54**
	TOTAL				**21272.10**
	OVERHEADS & PROFIT @ 15 %				**3190.81**
	TOTAL				**24462.91**
	Rate per Each				24462.91
	Say				**24463.00**

3.4.2 300 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1527	300 A TPN, adaptor box with cable end box, with TPN disconnector FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.00	19700.00	19700.00
2214	Aluminium lugs for 300 sq. mm cable	each	3.00	67.50	202.50
2210	Aluminium lugs for 150 sq. mm cable	each	1.00	22.50	22.50
	Total cost of materials				**19925.00**
	Cartage @ 1 % of A1				199.25
	LABOUR				
1001	Wireman	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**20491.50**
	Add 12% GST (MF= 0.1405)				**2879.06**
	TOTAL				**23370.56**
	OVERHEADS & PROFIT @ 15 %				**3505.58**
	TOTAL				**26876.14**
	Rate per Each				26876.14
	Say				**26876.00**

3.4.4 400 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1528	400 A TPN, adaptor box with cable end box, with TPN disconnector FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.00	21670.00	21670.00
2215	Aluminium lugs for 400 sq. mm cable	each	3.00	97.50	292.50
2212	Aluminium lugs for 225 sq. mm cable	each	1.00	39.75	39.75
	Total cost of materials				**22002.25**
	Cartage @ 1 % of A1				220.02
	LABOUR				
1001	Wireman	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**22707.04**
	Add 12% GST (MF= 0.1405)				**3190.34**
	TOTAL				**25897.38**
	OVERHEADS & PROFIT @ 15 %				**3884.61**
	TOTAL				**29781.99**
	Rate per Each				29781.99
	Say				**29782.00**

3.4.4 600 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1529	600 A TPN, adaptor box with cable end box, with TPN disconnector FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.00	23377.00	23377.00
2214	Aluminium lugs for 300 sq. mm cable	each	6.00	67.50	405.00
2210	Aluminium lugs for 150 sq. mm cable	each	2.00	22.50	45.00
	Total cost of materials				**23827.00**
	Cartage @ 1 % of A1				238.27
	LABOUR				
1001	Wireman	day	0.33	806.00	265.98

1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**24550.04**
	Add 12% GST (MF= 0.1405)				**3449.28**
	TOTAL				**27999.32**
	OVERHEADS & PROFIT @ 15 %				**4199.90**
	TOTAL				**32199.22**
	Rate per Each				32199.22
	Say				**32199.00**

3.4.5 800 A TPN

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1530	800 A TPN, adaptor box with cable end box, with TPN disconnector FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.00	26004.00	26004.00
2215	Aluminium lugs for 400 sq. mm cable	each	6.00	97.50	585.00
2212	Aluminium lugs for 225 sq. mm cable	each	2.00	39.75	79.50
	Total cost of materials				**26668.50**
	Cartage @ 1 % of A1				**266.69**
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**27669.69**
	Add 12% GST (MF= 0.1405)				**3887.59**
	TOTAL				**31557.28**
	OVERHEADS & PROFIT @ 15 %				**4733.59**
	TOTAL				**36290.87**
	Rate per Each				36290.87
	Say				**36291.00**

3.5 Supplying, installation, including suspension, testing and commissioning of following capacity bus trunking with aluminium bus bars having current density of 130 A/ sq cm at nominal current rating in 1.6mm thick IP 42 sheet steel enclosure in convenient sections for use on, 3 phase, 4 wire, 415 volts, 50 Hz, A.C. supply including jointing of sections, flexible joints, expansion joints, bends and earthing with 2 runs of galvanised iron strips, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.

3.5.1 800 A

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1531	800 A TPN, bus trunking with aluminium busbars	meter	10.00	10178.00	101780.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	56.00	493.92
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	23.00	322.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	10.80	151.20
	Total cost of materials				**102747.12**
	Cartage @ 1 % of A1				1027.47
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**106712.59**
	Add 12% GST (MF= 0.1405)				**14993.12**
	TOTAL				**121705.71**
	OVERHEADS & PROFIT @ 15 %				**18255.86**
	Cost for 10 meter				**139961.57**
	Rate per meter				13996.16
	Say				**13996.00**

3.5.2 1000 A

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1532	1000 A TPN, bus trunking with aluminium busbars	meter	10.00	12083.00	120830.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	56.00	493.92
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	23.00	322.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	10.80	151.20
	Total cost of materials				**121797.12**
	Cartage @ 1 % of A1				1217.97
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1007	Khallasi	day	2.00	663.00	1326.00

	TOTAL	**125953.09**
	Add 12% GST (MF= 0.1405)	**17696.41**
	TOTAL	**143649.50**
	OVERHEADS & PROFIT @ 15 %	**21547.43**
	Cost for 10 meter	**165196.93**
	Rate per meter	16519.69
	Say	**16520.00**

3.5.3 1250 A

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1533	1250 A TPN, bus trunking with aluminium busbars	meter	10.00	15498.00	154980.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	11.03	56.00	617.68
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	23.00	322.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	10.80	151.20
	Total cost of materials				**156070.88**
	Cartage @ 1 % of A1				560.71
	LABOUR				
1001	Wireman	day	3.00	806.00	2418.00
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**162038.59**
	Add 12% GST (MF= 0.1405)				**22766.42**
	TOTAL				**184805.01**
	OVERHEADS & PROFIT @ 15 %				**27720.75**
	Cost for 10 meter				**212525.76**
	Rate per meter				21252.58
	Say				**21253.00**

3.5.4 1400 A

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1534	1400 A TPN, bus trunking with aluminium busbars	meter	10.00	19438.00	194380.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	11.03	56.00	617.68
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	23.00	322.00

2856	Steel fastener 8 mm X 75 mm	each	14.00	10.80	151.20
	Total cost of materials				**195470.88**
	Cartage @ 1 % of A1				1954.71
	LABOUR				
1001	Wireman	day	3.00	806.00	2418.00
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**201832.59**
	Add 12% GST (MF= 0.1405)				**28357.48**
	TOTAL				**230190.07**
	OVERHEADS & PROFIT @ 15 %				**34528.51**
	Cost for 10 meter				**264718.58**
	Rate per meter				26471.86
	Say				**26472.00**

3.5.5 1600 A

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1533	1600 A TPN, bus trunking with aluminium busbars	meter	10.00	19438.00	194380.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	9.80	56.00	548.80
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	23.00	322.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	10.80	151.20
	Total cost of materials				**195402.00**
	Cartage @ 1 % of A1				1954.02
	LABOUR				
1001	Wireman	day	3.50	806.00	2821.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**202497.52**
	Add 12% GST (MF= 0.1405)				**28450.90**
	TOTAL				**230948.42**
	OVERHEADS & PROFIT @ 15 %				**34642.26**
	Cost for 10 meter				**265590.68**
	Rate per meter				26559.07
	Say				**26559.00**

3.6 Supplying, installation, testing and commissioning of following capacity overhead distribution bus trunking with aluminium bus bars having current density of 130 A/ sq cm at nominal current rating in 1.6mm thick IP 42 sheet steel enclosure in convenient sections with provision of tapping points for use on, 3 phase, 4 wire, 415 volts, 50 Hz, A.C. supply including jointing of sections, bends, earthing with 2 runs of galvanised iron strips, all installation accessories etc. as required.

3.6.1 200 A

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1536	200 A TPN, overhead busbars with aluminium busbars	meter	10.00	5779.00	57790.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	56.00	493.92
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	23.00	322.00
2856	Steel fastener 8 mm X 75 mm	each	14.00	10.80	151.20
	Total cost of materials				**58757.12**
	Cartage @ 1 % of A1				587.57
	LABOUR				
1001	Wireman	day	3.50	806.00	1612.00
1007	Khallasi	day	3.50	663.00	1326.00
	TOTAL				**62282.69**
	Add 12% GST (MF= 0.1405)				**8750.72**
	TOTAL				**71033.41**
	OVERHEADS & PROFIT @ 15 %				**10655.01**
	Cost for 10 meter				**81688.42**
	Rate per meter				8168.84
	Say				**8169.00**

3.5.4 400 A

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1537	400 A TPN, overhead busbars with aluminium busbars	meter	10.00	7486.00	74860.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	56.00	493.92
2801	MS Suspender 6 mm dia 0.75m long	each	14.00	23.00	322.00

2856	Steel fastener 8 mm X 75 mm	each	14.00	10.80	151.20
	Total cost of materials				**75827.12**
	Cartage @ 1 % of A1				758.27
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**79523.39**
	Add 12% GST (MF= 0.1405)				**11173.04**
	TOTAL				**90696.43**
	OVERHEADS & PROFIT @ 15 %				**13604.46**
	Cost for 10 meter				**104300.89**
	Rate per meter				10430.09
	Say				**10430.00**

3.7 Supplying, installing, testing and commissioning of following capacity TPN tap off box / plug-in box made of 1.6mm thick sheet steel enclosure duly painted with powder coating on existing overhead bus bar system complete with TPN disconnector FSU and HRC fuses, connections, earthing etc. as required.

3.7.1 32 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1538	32 A TPN, plug-in-box with TPN disconnector FSU and ISI marked HRC fuses for overhead busbars	each	1.00	7560.75	7560.75
	Total cost of materials				**7560.75**
	Cartage @ 1 % of A1				75.61
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**7783.26**
	Add 12% GST (MF= 0.1405)				**1093.55**
	TOTAL				**8876.81**
	OVERHEADS & PROFIT @ 15 %				**1331.52**
	TOTAL				**10208.33**
	Rate per Each				10208.33
	Say				**10208.00**

3.7.2 63 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1539	63 A TPN, plug-in-box with TPN disconnector FSU and ISI marked HRC fuses for overhead busbars	each	1.00	8523.00	8523.00
	Total cost of materials				**8523.00**
	Cartage @ 1 % of A1				85.23
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**8799.20**
	Add 12% GST (MF= 0.1405)				**1236.29**
	TOTAL				**10035.49**
	OVERHEADS & PROFIT @ 15 %				**1505.32**
	TOTAL				**11540.81**
	Rate per Each				11540.81
	Say				**11541.00**

3.7.3 100 A

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1540	100 A TPN, plug-in-box with TPN disconnector FSU and ISI marked HRC fuses for overhead busbars	each	1.00	10535.25	10535.25
	Total cost of materials				**10535.25**
	Cartage @ 1 % of A1				105.35
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**10831.57**
	Add 12% GST (MF= 0.1405)				**1521.84**
	TOTAL				**12353.41**
	OVERHEADS & PROFIT @ 15 %				**1853.01**
	TOTAL				**14206.42**
	Rate per Each				14206.42
	Say				**14206.00**

3.8 Supplying, installing on wall, testing and commissioning of following capacity Air Insulated Compact Type Rising Mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density of 130 A/ sq cm at nominal current rating, necessary joints & expansion joints, fire barrier at each floor, provision of tapping at every meter, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.

3.8.1 200 A, (Isc=15 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1551	200 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.00	5610.00	56100.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**56208.64**
	Cartage @ 1 % of A1				562.09
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.75	663.00	1823.25
	TOTAL				**60756.48**
	Add 12% GST (MF= 0.1405)				**8536.28**
	TOTAL				**69292.76**
	OVERHEADS & PROFIT @ 15 %				**10393.91**
	Cost for 10 meter				**79686.67**
	Rate per meter				7968.67
	Say				**7969.00**

3.8.2 315 A, (Isc=25 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1552	315 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.00	6624.00	66240.00

2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**66348.64**
	Cartage @ 1 % of A1				663.49
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.75	663.00	1823.25
	TOTAL				**70997.88**
	Add 12% GST (MF= 0.1405)				**9975.20**
	TOTAL				**80973.08**
	OVERHEADS & PROFIT @ 15 %				**12145.96**
	Cost for 10 meter				**93119.04**
	Rate per meter				9311.90
	Say				**9312.00**

3.8.3 400 A, (Isc=30 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1553	400 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.00	7932.00	79320.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**79428.64**
	Cartage @ 1 % of A1				794.29
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**84557.93**
	Add 12% GST (MF= 0.1405)				**11880.39**
	TOTAL				**96438.32**
	OVERHEADS & PROFIT @ 15 %				**14465.75**
	Cost for 10 meter				**110904.07**
	Rate per meter				11090.41
	Say				**11090.00**

3.8.4 500 A, (Isc=35 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1554	500 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.00	7932.00	79320.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**79428.64**
	Cartage @ 1 % of A1				794.29
	LABOUR				
1001	Wireman	day	2.25	806.00	1813.50
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.25	663.00	2154.75
	TOTAL				**84925.18**
	Add 12% GST (MF= 0.1405)				**11931.99**
	TOTAL				**96857.16**
	OVERHEADS & PROFIT @ 15 %				**14528.57**
	Cost for 10 meter				**111385.73**
	Rate per meter				11138.57
	Say				**11139.00**

3.8.5 630 A, (Isc=50 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1555	630 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.00	9192.00	91920.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**92028.64**
	Cartage @ 1 % of A1				920.29
	LABOUR				
1001	Wireman	day	2.25	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.25	663.00	2320.50

	TOTAL	**98018.43**
	Add 12% GST (MF= 0.1405)	**13771.59**
	TOTAL	**111790.02**
	OVERHEADS & PROFIT @ 15 %	**16768.50**
	Cost for 10 meter	**128558.52**
	Rate per meter	12855.85
	Say	**12856.00**

3.8.6 800 A, (Isc=50 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1556	800 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.00	13620.00	136200.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**136308.64**
	Cartage @ 1 % of A1				1363.09
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**142741.23**
	Add 12% GST (MF= 0.1405)				**20055.14**
	TOTAL				**162796.37**
	OVERHEADS & PROFIT @ 15 %				**24419.46**
	Cost for 10 meter				**187215.83**
	Rate per meter				18721.58
	Say				**18722.00**

3.8.7 1000 A, (Isc=50 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1557	1000A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.00	14124.00	141240.00

2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**141348.64**
	Cartage @ 1 % of A1				1413.49
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**147831.63**
	Add 12% GST (MF= 0.1405)				**20770.34**
	TOTAL				**168601.97**
	OVERHEADS & PROFIT @ 15 %				**25290.30**
	Cost for 10 meter				**193892.27**
	Rate per meter				19389.23
	Say				**19389.00**

3.8.8 1250 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1558	1250 A, TPN, compact type rising mains with aluminium busbar including all accessories	meter	10.00	16842.00	168420.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**168528.64**
	Cartage @ 1 % of A1				1685.29
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**175283.43**
	Add 12% GST (MF= 0.1405)				**24627.32**
	TOTAL				**199910.75**
	OVERHEADS & PROFIT @ 15 %				**29986.61**
	Cost for 10 meter				**229897.36**
	Rate per meter				22989.74
	Say				**22990.00**

3.9 Supplying, installing on wall/ceiling, testing and commissioning of following capacity Air Insulated Compact Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density of 130 A/ sq cm at nominal current rating, necessary joints, elbow joints & expansion joints, fire barrier at each floor, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, Suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.

3.9.1 200 A, (Isc=15 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1559	200 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.00	5666.00	56660.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**56768.64**
	Cartage @ 1 % of A1				567.69
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.75	663.00	1823.25
	TOTAL				**61322.08**
	Add 12% GST (MF= 0.1405)				**8615.75**
	TOTAL				**69937.83**
	OVERHEADS & PROFIT @ 15 %				**10490.67**
	Cost for 10 meter				**80428.50**
	Rate per meter				8042.85
	Say				**8043.00**

3.9.2 315 A, (Isc=25 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1560	3315 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.00	6690.00	66900.00

2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**67008.64**
	Cartage @ 1 % of A1				670.09
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	0.75	734.00	550.50
1007	Khallasi	day	2.75	663.00	1823.25
	TOTAL				**71664.48**
	Add 12% GST (MF= 0.1405)				**10068.86**
	TOTAL				**81733.34**
	OVERHEADS & PROFIT @ 15 %				**12260.00**
	Cost for 10 meter				**93993.34**
	Rate per meter				9399.33
	Say				**9399.00**

3.9.3 400 A, (Isc=50 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1561	400 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.00	8011.00	80110.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**80218.64**
	Cartage @ 1 % of A1				802.19
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**85355.83**
	Add 12% GST (MF= 0.1405)				**11992.49**
	TOTAL				**97348.32**
	OVERHEADS & PROFIT @ 15 %				**14602.25**
	Cost for 10 meter				**111950.57**
	Rate per meter				11195.06
	Say				**11195.00**

3.9.4 500 A, (Isc=35 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1562	500 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.00	8011.00	80110.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**80218.64**
	Cartage @ 1 % of A1				802.19
	LABOUR				
1001	Wireman	day	2.25	806.00	1813.50
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.25	663.00	2154.75
	TOTAL				**85723.08**
	Add 12% GST (MF= 0.1405)				**12044.09**
	TOTAL				**97767.17**
	OVERHEADS & PROFIT @ 15 %				**14665.08**
	Cost for 10 meter				**112432.25**
	Rate per meter				11243.22
	Say				**11243.00**

3.9.5 630 A, (Isc=50 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1563	630 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.00	9284.00	92840.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**92948.64**
	Cartage @ 1 % of A1				929.49
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00

1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**98947.63**
	Add 12% GST (MF= 0.1405)				**13902.14**
	TOTAL				**112849.77**
	OVERHEADS & PROFIT @ 15 %				**16927.47**
	Cost for 10 meter				**129777.24**
	Rate per meter				12977.72
	Say				**12978.00**

3.9.6 800 A, (Isc=50 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1564	800 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.00	13756.00	137560.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**137668.64**
	Cartage @ 1 % of A1				1376.69
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**144114.83**
	Add 12% GST (MF= 0.1405)				**20248.13**
	TOTAL				**164362.96**
	OVERHEADS & PROFIT @ 15 %				**24654.44**
	Cost for 10 meter				**189017.40**
	Rate per meter				18901.74
	Say				**18902.00**

3.9.7 1000 A, (Isc=50 kA for 1 second)
Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1565	1000 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.00	13756.00	137560.00

2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**137668.64**
	Cartage @ 1 % of A1				1376.69
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	0.75	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**144114.83**
	Add 12% GST (MF= 0.1405)				**20248.13**
	TOTAL				**164362.96**
	OVERHEADS & PROFIT @ 15 %				**24654.44**
	Cost for 10 meter				**189017.40**
	Rate per meter				18901.74
	Say				**18902.00**

3.9.8 1250 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1566	1250 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	meter	10.00	16065.00	160650.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
	Total cost of materials				**160758.64**
	Cartage @ 1 % of A1				1607.59
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**167435.73**
	Add 12% GST (MF= 0.1405)				**23524.72**
	TOTAL				**190960.45**
	OVERHEADS & PROFIT @ 15 %				**28644.07**
	Cost for 10 meter				**219604.52**
	Rate per meter				21960.45
	Say				**21960.00**

3.10 DELETED

3.11 Supplying, installation, testing & commisioning of following capacity End Feed Unit for the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick steel sheet enclosure (IP54) duly powder coated with provision of MCCB/ACB (but without MCCB/ACB) complete with necessary joints including clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required

3.11.1 200 A, (Isc=15 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1567	200 A, TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	6252.00	6252.00
	Total cost of materials				**6252.00**
	Cartage @ 1 % of A1				62.52
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**6461.42**
	Add 12% GST (MF= 0.1405)				**907.83**
	TOTAL				**7369.25**
	OVERHEADS & PROFIT @ 15 %				**1105.39**
	TOTAL				**8474.64**
	Rate per Each				8474.64
	Say				**8475.00**

3.11.2 315 A, (Isc=25 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1568	315A, TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	7566.00	7566.00
	Total cost of materials				**7566.00**
	Cartage @ 1 % of A1				75.66
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30

	TOTAL	**7788.56**
	Add 12% GST (MF= 0.1405)	**1094.29**
	TOTAL	**8882.85**
	OVERHEADS & PROFIT @ 15 %	**1332.43**
	TOTAL	**10215.28**
	Rate per Each	10215.28
	Say	**10215.00**

3.11.3 400 A, (Isc=30 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1569	400 A, TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	8358.00	8358.00
	Total cost of materials				**8358.00**
	Cartage @ 1 % of A1				83.58
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**8632.55**
	Add 12% GST (MF= 0.1405)				**1212.87**
	TOTAL				**9845.42**
	OVERHEADS & PROFIT @ 15 %				**1476.81**
	TOTAL				**11322.23**
	Rate per Each				11322.23
	Say				**11322.00**

3.11.4 500 A, (Isc=35 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1570	500A, TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	8358.00	8358.00
	Total cost of materials				**8358.00**
	Cartage @ 1 % of A1				83.58
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19

	TOTAL	**8632.55**
	Add 12% GST (MF= 0.1405)	**1212.87**
	TOTAL	**9845.42**
	OVERHEADS & PROFIT @ 15 %	**1476.81**
	TOTAL	**11322.23**
	Rate per Each	11322.23
	Say	**11322.00**

3.11.5 630 A, (Isc=50 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1571	630 A, TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	9900.00	9900.00
	Total cost of materials				**9900.00**
	Cartage @ 1 % of A1				99.08
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**10248.73**
	Add 12% GST (MF= 0.1405)				**1439.95**
	TOTAL				**11688.68**
	OVERHEADS & PROFIT @ 15 %				**1753.30**
	TOTAL				**13441.98**
	Rate per Each				13441.98
	Say				**13442.00**

3.11.6 800 A, (Isc=50 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1572	800A, TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	13260.00	13260.00
	Total cost of materials				**13260.00**
	Cartage @ 1 % of A1				132.60
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71

	TOTAL	**13642.33**
	Add 12% GST (MF= 0.1405)	**1916.75**
	TOTAL	**15559.08**
	OVERHEADS & PROFIT @ 15 %	**2333.86**
	TOTAL	**17892.94**
	Rate per Each	17892.94
	Say	**17893.00**

3.11.7 1000 A, (Isc=50 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1573	1000 A, TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	13260.00	13260.00
	Total cost of materials				**13260.00**
	Cartage @ 1 % of A1				132.60
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**13642.33**
	Add 12% GST (MF= 0.1405)				**1916.75**
	TOTAL				**15559.08**
	OVERHEADS & PROFIT @ 15 %				**2333.86**
	TOTAL				**17892.94**
	Rate per Each				17892.94
	Say				**17893.00**

3.11.8 1250 A, (Isc=50 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1572	1250A, TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	14778.00	14778.00
	Total cost of materials				**14778.00**
	Cartage @ 1 % of A1				147.78
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71

	TOTAL	**15175.51**
	Add 12% GST (MF= 0.1405)	**2132.16**
	TOTAL	**17307.67**
	OVERHEADS & PROFIT @ 15 %	**2596.15**
	TOTAL	**19903.82**
	Rate per Each	19903.82
	Say	**19904.00**

3.12 Supplying, installation, testing & commisioning of following capacity Plug In/ tap off box on the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 V, 50Hz A.C. supply made with 1.6mm thick sheet steel enclosure (IP54) duly powder coated with provision of MCCB (but without MCCB) complete etc. as required

3.12.1 125 A, (Isc=15 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1575	125 A, TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	6400.00	6400.00
	Total cost of materials				**6400.00**
	Cartage @ 1 % of A1				64.00
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**6610.90**
	Add 12% GST (MF= 0.1405)				**928.83**
	TOTAL				**7539.73**
	OVERHEADS & PROFIT @ 15 %				**1130.96**
	TOTAL				**8670.69**
	Rate per Each				8670.69
	Say				**8671.00**

3.12.2 200 A, (Isc=25 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1576	200 A,TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	6400.00	6400.00

	Total cost of materials				**6400.00**
	Cartage @ 1 % of A1				64.00
	LABOUR				
1001	Wireman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**6610.90**
	Add 12% GST (MF= 0.1405)				**928.83**
	TOTAL				**7539.73**
	OVERHEADS & PROFIT @ 15 %				**1130.96**
	TOTAL				**8670.69**
	Rate per Each				8670.69
	Say				**8671.00**

3.12.3 315 A, (Isc=30 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1577	315 A, TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	7840.00	7840.00
	Total cost of materials				**7840.00**
	Cartage @ 1 % of A1				78.40
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**8109.37**
	Add 12% GST (MF= 0.1405)				**1139.37**
	TOTAL				**9248.74**
	OVERHEADS & PROFIT @ 15 %				**1387.31**
	TOTAL				**10636.05**
	Rate per Each				10636.05
	Say				**10636.00**

3.12.4 400 A, (Isc=35 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1578	400 A,TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	7840.00	7840.00

	Total cost of materials				**7840.00**
	Cartage @ 1 % of A1				78.40
	LABOUR				
1001	Wireman	day	0.13	806.00	104.78
1007	Khallasi	day	0.13	663.00	86.19
	TOTAL				**8109.37**
	Add 12% GST (MF= 0.1405)				**1139.37**
	TOTAL				**9248.74**
	OVERHEADS & PROFIT @ 15 %				**1387.31**
	TOTAL				**10636.05**
	Rate per Each				10636.05
	Say				**10636.00**

3.12.5 500 A, (Isc=50 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1579	500 A, TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	11840.00	11840.00
	Total cost of materials				**11840.00**
	Cartage @ 1 % of A1				118.40
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**12208.13**
	Add 12% GST (MF= 0.1405)				**1715.24**
	TOTAL				**13923.37**
	OVERHEADS & PROFIT @ 15 %				**2088.51**
	TOTAL				**16011.88**
	Rate per Each				16011.88
	Say				**16012.00**

3.12.6 630 A, (Isc=50 kA for 1 second)
Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1580	630 A,TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	11840.00	11840.00

	Total cost of materials				**11840.00**
	Cartage @ 1 % of A1				118.40
	LABOUR				
1001	Wireman	day	0.17	806.00	137.02
1007	Khallasi	day	0.17	663.00	112.71
	TOTAL				**12208.13**
	Add 12% GST (MF= 0.1405)				**1715.24**
	TOTAL				**13923.37**
	OVERHEADS & PROFIT @ 15 %				**2088.51**
	TOTAL				**16011.88**
	Rate per Each				16011.88
	Say				**16012.00**

3.13 Supplying, installing by suspension on ceiling/ along the wall, testing and commissioning of following capacity Sandwich Type Rising Mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density of 130 A/ sq cm at nominal current rating, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every meter, adopter box and copper flexible for joints, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required

3.13.1 400 A, (Isc=25 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1581	400 A, 25KA SC for 1 sec	meter	10.00	11040.00	110400.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**110900.64**
	Cartage @ 1 % of A1				1109.01
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**117079.15**
	Add 12% GST (MF= 0.1405)				**16449.62**

	TOTAL	**133528.77**
	OVERHEADS & PROFIT @ 15 %	**20029.31**
	Cost for 10 meter	**153558.08**
	Rate per meter	15355.81
	Say	**15356.00**

3.13.2 500 A, (Isc=30 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1582	500 A, 30KA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.00	11730.00	117300.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**117800.64**
	Cartage @ 1 % of A1				1178.01
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**124048.15**
	Add 12% GST (MF= 0.1405)				**17428.76**
	TOTAL				**141476.91**
	OVERHEADS & PROFIT @ 15 %				**21221.54**
	Cost for 10 meter				**162698.45**
	Rate per meter				16269.85
	Say				**16270.00**

3.13.3 630 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1583	630 A, 50KA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.00	13950.00	139500.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**140000.64**
	Cartage @ 1 % of A1				1400.01
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**146470.15**
	Add 12% GST (MF= 0.1405)				**20579.06**
	TOTAL				**167049.20**
	OVERHEADS & PROFIT @ 15 %				**25057.38**
	Cost for 10 meter				**192106.58**
	Rate per meter				19210.66
	Say				**19211.00**

3.13.4 800 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1584	800 A, 50KA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.00	15840.00	158400.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**158900.64**
	Cartage @ 1 % of A1				1589.01
	LABOUR				

1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**165559.15**
	Add 12% GST (MF= 0.1405)				**23261.06**
	TOTAL				**188820.21**
	OVERHEADS & PROFIT @ 15 %				**28323.03**
	Cost for 10 meter				**217143.24**
	Rate per meter				21714.32
	Say				**21714.00**

3.13.5 1000 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1585	1000 A, 50KA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.00	17700.00	177000.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**177500.64**
	Cartage @ 1 % of A1				1775.01
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**184345.15**
	Add 12% GST (MF= 0.1405)				**25900.49**
	TOTAL				**210245.64**
	OVERHEADS & PROFIT @ 15 %				**31536.85**
	Cost for 10 meter				**241782.49**
	Rate per meter				24178.25
	Say				**24178.00**

3.13.6 1250 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1586	1250 A, 25KA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.00	19374.00	193740.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**194240.64**
	Cartage @ 1 % of A1				1942.41
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**201252.55**
	Add 12% GST (MF= 0.1405)				**28275.98**
	TOTAL				**229528.53**
	OVERHEADS & PROFIT @ 15 %				**34429.28**
	Cost for 10 meter				**263957.81**
	Rate per meter				26395.78
	Say				**26396.00**

3.13.7 1600 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1587	1600 A, 50KA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.00	23160.00	231600.00

2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**232100.64**
	Cartage @ 1 % of A1				2321.01
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**239491.15**
	Add 12% GST (MF= 0.1405)				**33648.51**
	TOTAL				**273139.65**
	OVERHEADS & PROFIT @ 15 %				**40970.95**
	Cost for 10 meter				**314110.60**
	Rate per meter				31411.06
	Say				**31411.00**

3.13.8 2000 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1588	2000 A, 50KA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.00	29760.00	297600.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**298100.64**
	Cartage @ 1 % of A1				2981.01
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**306151.15**
	Add 12% GST (MF= 0.1405)				**43014.24**

	TOTAL	**349165.38**
	OVERHEADS & PROFIT @ 15 %	**52374.81**
	Cost for 10 meter	**401540.19**
	Rate per meter	40154.02
	Say	**40154.00**

3.13.9 2500 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1589	2500 A, 50KA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.00	33108.00	331080.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**331580.64**
	Cartage @ 1 % of A1				3315.81
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**339965.95**
	Add 12% GST (MF= 0.1405)				**47765.22**
	TOTAL				**387731.16**
	OVERHEADS & PROFIT @ 15 %				**58159.67**
	Cost for 10 meter				**445890.83**
	Rate per meter				44589.08
	Say				**44589.00**

3.13.10 3200 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1590	3200 A, 50KA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.00	41508.00	415080.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**415580.64**
	Cartage @ 1 % of A1				4155.81
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**424805.95**
	Add 12% GST (MF= 0.1405)				**59685.24**
	TOTAL				**484491.18**
	OVERHEADS & PROFIT @ 15 %				**72673.68**
	Cost for 10 meter				**557164.86**
	Rate per meter				55716.49
	Say				**55716.00**

3.13.11 4000 A, (Isc=50 kA for 1 second)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1591	4000 A, 50KA SC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars	meter	10.00	70839.00	708390.00
2804	25 mm X 25 mm X 3 mm angle iron =7 X 0.25m =1.75 @1.11kg/m = 1.94kg	kg	1.94	56.00	108.64
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				**708890.64**
	Cartage @ 1 % of A1				7088.91
	LABOUR				

1001	Wireman	day	2.50	806.00	2015.00
1010	Mason, Grade 2	day	1.00	734.00	734.00
1007	Khallasi	day	3.50	663.00	2320.50
	TOTAL				**721049.05**
	Add 12% GST (MF= 0.1405)				**101307.39**
	TOTAL				**822356.44**
	OVERHEADS & PROFIT @ 15 %				**123353.47**
	Cost for 10 meter				**945709.91**
	Rate per meter				**94570.99**
	Say				**94571.00**

CHAPTER 4 – CABLE TRAYS

4.1 Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.

4.1.1 100 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2701	MS perforated cable tray painted with powder coating 100 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	157.50	4961.25
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	9.00	30.00	270.00
2804	25 mm X 25 mm X 3 mm angle iron = 20 X 0.15m =3 @1.11kg/m = 3.33kg	kg	3.33	56.00	186.48
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	23.00	920.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**6769.73**
	Cartage @ 1 % of A1				67.70
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**12425.43**
	Add 12% GST (MF= 0.1405)				**1745.77**
	TOTAL				**14171.20**
	OVERHEADS & PROFIT @ 15 %				**2125.68**
	Cost for 30 meter				**16296.88**
	Rate per meter				543.23
	Say				**543.00**

4.1.2 150 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2702	MS perforated cable tray painted with powder coating 150 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	196.50	6189.75
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	9.00	39.00	351.00
2804	25 mm X 25 mm X 3 mm angle iron = 20 X 0.15m =3 @1.11kg/m = 4.44kg	kg	4.44	56.00	248.64
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	23.00	920.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**8141.39**
	Cartage @ 1 % of A1				81.41
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**13810.80**
	Add 12% GST (MF= 0.1405)				**1940.42**
	TOTAL				**15751.22**
	OVERHEADS & PROFIT @ 15 %				**2362.68**
	Cost for 30 meter				**18113.90**
	Rate per meter				603.80
	Say				**604.00**

4.1.3 225 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2703	MS perforated cable tray painted with powder coating 225 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	255.50	8048.25
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	9.00	40.00	360.00
2804	25 mm X 25 mm X 3 mm angle iron = 20 X 0.15m =3 @1.11kg/m = 5.55kg	kg	5.55	56.00	310.80
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	23.00	920.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00

	Total cost of materials				**10071.05**
	Cartage @ 1 % of A1				100.71
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**15759.76**
	Add 12% GST (MF= 0.1405)				**2214.25**
	TOTAL				**17974.01**
	OVERHEADS & PROFIT @ 15 %				**2696.10**
	Cost for 30 meter				**20670.11**
	Rate per meter				689.00
	Say				**689.00**

4.1.4 300 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2704	MS perforated cable tray painted with powder coating 300 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	314.50	9906.75
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	9.00	40.00	360.00
2804	25 mm X 25 mm X 3 mm angle iron = 20 X 0.15m =3 @1.11kg/m = 7.77kg	kg	7.77	56.00	435.12
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	23.00	920.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**12053.87**
	Cartage @ 1 % of A1				120.54
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**17762.41**
	Add 12% GST (MF= 0.1405)				**2495.62**
	TOTAL				**20258.03**
	OVERHEADS & PROFIT @ 15 %				**3038.70**
	Cost for 30 meter				**23296.73**

	Rate per meter				776.56
	Say				**777.00**

4.1.5 375 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2705	MS perforated cable tray painted with powder coating 375 X 50 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	467.00	14710.50
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	9.00	44.00	396.00
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.425m =8.5 @2.09kg/m = 17.77kg	kg	17.77	56.00	995.12
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	23.00	920.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**17453.62**
	Cartage @ 1 % of A1				174.54
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**23216.16**
	Add 12% GST (MF= 0.1405)				**3261.87**
	TOTAL				**26478.03**
	OVERHEADS & PROFIT @ 15 %				**3971.70**
	Cost for 30 meter				**30449.73**
	Rate per meter				1014.99
	Say				**1015.00**

4.1.6 450 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2706	MS perforated cable tray painted with powder coating 450 X 50 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	540.50	17025.75

2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	9.00	51.00	459.00
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.05m =10 @2.09kg/m = 20.9kg	kg	20.90	56.00	1170.40
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	28.00	1120.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**20207.15**
1005	Cartage @ 1 % of A1				202.07
1010	**LABOUR**				
1007	Fitter, Grade 2	day	2.00	734.00	1468.00
	Mason, Grade 2	day	2.00	734.00	1468.00
	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**25997.22**
	Add 12% GST (MF= 0.1405)				**3652.61**
	TOTAL				**29649.83**
	OVERHEADS & PROFIT @ 15 %				**4447.47**
	Cost for 30 meter				**34097.30**
	Rate per meter				1136.58
	Say				**1137.00**

4.1.7 600 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2707	MS perforated cable tray painted with powder coating 600 X 50 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	688.00	21672.00
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	9.00	56.00	504.00
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.65m =13 @2.09kg/m = 27.17kg	kg	27.17	56.00	1521.52
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	28.00	1120.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**25393.52**
	Cartage @ 1 % of A1				253.94
	LABOUR				

1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**31235.46**
	Add 12% GST (MF= 0.1405)				**4388.58**
	TOTAL				**35624.04**
	OVERHEADS & PROFIT @ 15 %				**5343.61**
	Cost for 30 meter				**40967.65**
	Rate per meter				1365.59
	Say				**1366.00**

4.1.8 300 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2708	MS perforated cable tray painted with powder coating 300 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	417.50	13151.25
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	9.00	44.00	396.00
2804	25 mm X 25 mm X 3 mm angle iron = 20 X 0.35m =7 @1.11kg/m = 7.77kg	kg	7.77	56.00	435.12
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	23.00	920.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**15478.37**
	Cartage @ 1 % of A1				154.78
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**21221.15**
	Add 12% GST (MF= 0.1405)				**2981.57**
	TOTAL				**24202.73**
	OVERHEADS & PROFIT @ 15 %				**3630.41**
	Cost for 30 meter				**27833.14**
	Rate per meter				927.77
	Say				**928.00**

4.1.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2709	MS perforated cable tray painted with powder coating 375 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	491.50	15482.25
2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	9.00	50.00	450.00
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.425m =8.5 @2.09kg/m = 17.77kg	kg	17.77	56.00	995.12
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	23.00	920.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**18423.37**
	Cartage @ 1 % of A1				184.23
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**24195.60**
	Add 12% GST (MF= 0.1405)				**3399.48**
	TOTAL				**27595.09**
	OVERHEADS & PROFIT @ 15 %				**4139.26**
	Cost for 30 meter				**31734.35**
	Rate per meter				1057.81
	Say				**1058.00**

4.1.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2710	MS perforated cable tray painted with powder coating 450 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5mm	meter	31.50	565.00	17797.50
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	9.00	55.00	495.00

2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.5m =10 @2.09kg/m = 20.9kg	kg	20.90	56.00	1170.40
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
2801	MS Suspender 6 mm dia 0.75m long	each	40.00	23.00	920.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**20814.90**
	Cartage @ 1 % of A1				208.15
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**28008.05**
	Add 12% GST (MF= 0.1405)				**3935.13**
	TOTAL				**31943.18**
	OVERHEADS & PROFIT @ 15 %				**4791.48**
	Cost for 30 meter				**36734.66**
	Rate per meter				1224.49
	Say				**1224.00**

4.1.11 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2711	MS perforated cable tray painted with powder coating 600 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	712.50	22443.75
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	9.00	61.00	549.00
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.65m =13 @2.09kg/m = 27.17kg	kg	27.17	56.00	1521.52
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	28.00	1120.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**26210.27**
	Cartage @ 1 % of A1				262.10
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00

1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**33457.37**
	Add 12% GST (MF= 0.1405)				**4700.76**
	TOTAL				**38158.13**
	OVERHEADS & PROFIT @ 15 %				**5723.72**
	Cost for 30 meter				**43881.85**
	Rate per meter				1462.73
	Say				**1463.00**

4.1.12 750 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2712	MS perforated cable tray painted with powder coating 750 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	859.50	27074.25
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	9.00	67.00	603.00
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.8m =16 @2.09kg/m = 33.44kg	kg	33.44	56.00	1872.64
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
2802	MS Suspender 6 mm dia 0.75m long	each	40.00	28.00	1120.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**31245.89**
	Cartage @ 1 % of A1				312.46
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**38543.35**
	Add 12% GST (MF= 0.1405)				**5415.34**
	TOTAL				**43958.69**
	OVERHEADS & PROFIT @ 15 %				**6593.80**
	Cost for 30 meter				**50552.49**
	Rate per meter				1685.08
	Say				**1685.00**

4.1.13 900 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2713	MS perforated cable tray painted with powder coating 900 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	1007.00	31720.50
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	9.00	71.00	639.00
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.95m =19 @2.59kg/m = 49.21kg	kg	49.21	56.00	2755.76
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
2806	MS Suspender 10 mm dia 0.75m long	each	40.00	40.00	1600.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**37291.26**
	Cartage @ 1 % of A1				372.91
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**44649.17**
	Add 12% GST (MF= 0.1405)				**6273.21**
	TOTAL				**50922.38**
	OVERHEADS & PROFIT @ 15 %				**7638.36**
	Cost for 30 meter				**58560.74**
	Rate per meter				1952.02
	Say				**1952.00**

4.1.14 600 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2714	MS perforated cable tray painted with powder coating 600 X 75 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	737.00	23215.50
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	9.00	61.00	549.00

2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.65m =13 @2.09kg/m = 27.17kg	kg	27.17	56.00	1521.52
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	28.00	1120.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**26982.02**
	Cartage @ 1 % of A1				269.82
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**34236.84**
	Add 12% GST (MF= 0.1405)				**4810.28**
	TOTAL				**39047.12**
	OVERHEADS & PROFIT @ 15 %				**5857.07**
	Cost for 30 meter				**44904.19**
	Rate per meter				1496.81
	Say				**1497.00**

4.1.15 750 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2715	MS perforated cable tray painted with powder coating 750 X 75 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	869.50	27389.25
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	9.00	67.00	603.00
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.8m =16 @2.09kg/m = 33.44kg	kg	33.44	56.00	1872.64
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
2802	MS Suspender 8 mm dia 0.75m long	each	40.00	28.00	1120.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**31560.89**
	Cartage @ 1 % of A1				315.61
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00

1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**38861.50**
	Add 12% GST (MF= 0.1405)				**5460.04**
	TOTAL				**44321.54**
	OVERHEADS & PROFIT @ 15 %				**6648.23**
	Cost for 30 meter				**50969.77**
	Rate per meter				1698.99
	Say				**1699.00**

4.1.16 900 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2716	MS perforated cable tray painted with powder coating 900 X 75 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	meter	31.50	1423.00	44824.50
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	9.00	71.00	639.00
2805	35 mm X 35 mm X 4 mm angle iron = 20 X 0.95m =19 @2.59kg/m = 49.21kg	kg	49.21	56.00	2755.76
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
2803	MS Suspender 10 mm dia 0.75m long	each	40.00	40.00	1600.00
2936	Painting with primer and finish paint	L.S.	20.00	7.20	144.00
	Total cost of materials				**50395.26**
	Cartage @ 1 % of A1				503.95
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**57884.21**
	Add 12% GST (MF= 0.1405)				**8132.73**
	TOTAL				**66016.94**
	OVERHEADS & PROFIT @ 15 %				**9902.54**
	Cost for 30 meter				**75919.48**
	Rate per meter				2530.65
	Say				**2531.00**

4.2 Supplying and installing following size of perforated painted with powder coating M.S. cable trays bends with perforation not more than 17.5%,, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.

4.2.1 100 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2733	MS perforated cable tray Bend 100 X 50 X 1.6 mm	each	1.00	409.50	409.50
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	30.00	30.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.15m =0.15 @1.11kg/m = 0.17kg	kg	0.17	56.00	9.52
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**516.62**
	Cartage @ 1 % of A1				5.17
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**661.49**
	Add 12% GST (MF= 0.1405)				**92.94**
	TOTAL				**754.43**
	OVERHEADS & PROFIT @ 15 %				**113.16**
	TOTAL				**867.59**
	Rates for each				867.59
	Say				**868.00**

4.2.2 150 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2734	MS perforated cable tray Bend 150 X 50 X 1.6 mm	each	1.00	510.90	510.90

2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	30.00	30.00
2804	25 mm X 25 mm X 3 mm angle iron = 0.2 @ 1.11kg/m = 0.22kg	kg	0.22	56.00	12.32
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**629.82**
	Cartage @ 1 % of A1				6.30
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**775.82**
	Add 12% GST (MF= 0.1405)				**109.00**
	TOTAL				**884.82**
	OVERHEADS & PROFIT @ 15 %				**132.72**
	TOTAL				**1017.54**
	Rates for each				1017.54
	Say				**1018.00**

4.2.3 200 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2735	MS perforated cable tray Bend 225 X 50 X 1.6 mm	each	1.00	664.30	664.30
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	40.00	40.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.25m =0.25 @1.11kg/m = 0.28kg	kg	0.28	56.00	15.68
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**787.58**
	Cartage @ 1 % of A1				7.88
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70

1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**935.16**
	Add 12% GST (MF= 0.1405)				**131.39**
	TOTAL				**1066.55**
	OVERHEADS & PROFIT @ 15 %				**159.98**
	TOTAL				**1226.53**
	Rates for each				1226.53
	Say				**1227.00**

4.2.4 300 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2736	MS perforated cable tray Bend 300 X 50 X 1.6 mm	each	1.00	817.70	817.70
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	40.00	40.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.35m =0.35 @1.11kg/m = 0.39kg	kg	0.39	56.00	21.84
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**947.14**
	Cartage @ 1 % of A1				9.47
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1096.31**
	Add 12% GST (MF= 0.1405)				**154.03**
	TOTAL				**1250.34**
	OVERHEADS & PROFIT @ 15 %				**187.55**
	TOTAL				**1437.89**
	Rates for each				1437.89
	Say				**1438.00**

4.2.5 375 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2737	MS perforated cable tray Bend 375 X 50 X 2 mm	each	1.00	1214.20	1214.20
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	44.00	44.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m =0.43 @2.09kg/m = 0.9kg	kg	0.90	56.00	50.40
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1376.20**
	Cartage @ 1 % of A1				13.76
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1529.66**
	Add 12% GST (MF= 0.1405)				**214.92**
	TOTAL				**1744.58**
	OVERHEADS & PROFIT @ 15 %				**261.69**
	TOTAL				**2006.27**
	Rates for each				2006.27
	Say				**2006.00**

4.2.6 450 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2738	MS perforated cable tray Bend 450 X 50 X 2 mm	each	1.00	1405.30	1405.30
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	51.00	51.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m =0.5 @2.09kg/m = 1.05kg	kg	1.05	56.00	58.80

2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1592.70**
	Cartage @ 1 % of A1				15.93
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1748.33**
	Add 12% GST (MF= 0.1405)				**245.64**
	TOTAL				**1993.97**
	OVERHEADS & PROFIT @ 15 %				**299.10**
	TOTAL				**2293.07**
	Rates for each				2293.07
	Say				**2293.00**

4.2.7 600 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2739	MS perforated cable tray Bend 600 X 50 X 2 mm	each	1.00	1788.80	1788.80
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	56.00	56.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2005.76**
	Cartage @ 1 % of A1				20.06
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2165.52**
	Add 12% GST (MF= 0.1405)				**304.26**

	TOTAL	**2469.77**
	OVERHEADS & PROFIT @ 15 %	**370.47**
	TOTAL	**2840.24**
	Rates for each	2840.24
	Say	**2840.00**

4.2.8 300 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2740	MS perforated cable tray Bend 300 X 62.5 X 2 mm	each	1.00	1085.50	1085.50
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	44.00	44.00
2805	25 mm X 25 mm X 3 mm angle iron = 0.35 @1.11kg/m = 0.39kg	kg	0.39	56.00	21.84
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1226.14**
	Cartage @ 1 % of A1				12.26
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1378.10**
	Add 12% GST (MF= 0.1405)				**193.62**
	TOTAL				**1571.72**
	OVERHEADS & PROFIT @ 15 %				**235.76**
	TOTAL				**1807.48**
	Say				**1807.00**

4.2.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2741	MS perforated cable tray Bend 375 X 62.5 X 2 mm	each	1.00	1277.90	1277.90

2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	50.00	50.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m =0.43 @2.09kg/m = 0.9kg	kg	0.90	56.00	50.40
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1453.10**
	Cartage @ 1 % of A1				14.53
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1607.33**
	Add 12% GST (MF= 0.1405)				**225.83**
	TOTAL				**1833.16**
	OVERHEADS & PROFIT @ 15 %				**274.97**
	TOTAL				**2108.13**
	Rates for each				2108.13
	Say				**2108.00**

4.2.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2742	MS perforated cable tray Bend 450 X 62.5 X 2 mm	each	1.00	1469.00	1469.00
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	55.00	55.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m = @2.09kg/m = 1.05kg	kg	1.05	56.00	58.80
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1650.40**
	Cartage @ 1 % of A1				16.50
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72

1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**1890.42**
	Add 12% GST (MF= 0.1405)				**265.60**
	TOTAL				**2156.03**
	OVERHEADS & PROFIT @ 15 %				**323.40**
	TOTAL				**2479.43**
	Rates for each				2479.43
	Say				**2479.00**

4.2.11 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2743	MS perforated cable tray Bend 600 X 62.5 X 2 mm	each	1.00	1852.50	1852.50
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	61.00	61.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @ 2.09kg/m = 1.36kg	kg	0.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2074.46**
	Cartage @ 1 % of A1				20.74
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2318.72**
	Add 12% GST (MF= 0.1405)				**325.78**
	TOTAL				**2644.51**
	OVERHEADS & PROFIT @ 15 %				**396.68**
	TOTAL				**3041.19**
	Rates for each				3041.19
	Say				**3041.00**

4.2.12 750 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2744	MS perforated cable tray Bend 750 X 62.5 X 2 mm	each	1.00	2234.70	2234.70
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	67.00	67.00
2805	35 mm X 35 mm X 4 mm angle iron= 1 X 0.8m =0.8 @2.09kg/m = 1.67kg	kg	0.67	56.00	93.52
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2480.02**
	Cartage @ 1 % of A1				24.80
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2728.34**
	Add 12% GST (MF= 0.1405)				**383.33**
	TOTAL				**3111.67**
	OVERHEADS & PROFIT @ 15 %				**466.75**
	TOTAL				**3578.42**
	Rates for each				3578.42
	Say				**3578.00**

4.2.13 900 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2745	MS perforated cable tray Bend 900 X 62.5 X 2 mm	each	1.00	4425.25	4425.25
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	71.00	71.00
2805	35 mm X 35 mm X 4 mm angle iron= 1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	56.00	137.76

2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**4718.81**
	Cartage @ 1 % of A1				47.19
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4989.52**
	Add 12% GST (MF= 0.1405)				**701.03**
	TOTAL				**5690.55**
	OVERHEADS & PROFIT @ 15 %				**853.58**
	TOTAL				**6544.13**
	Say				**6544.00**

4.2.14 600 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2746	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	1916.20	1916.20
2727	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	61.00	61.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2138.16**
	Cartage @ 1 % of A1				24.80
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2383.06**
	Add 12% GST (MF= 0.1405)				**334.82**
	TOTAL				**2717.88**

	OVERHEADS & PROFIT @ 15 %	**407.68**
	TOTAL	**3125.56**
	Rates for each	3125.56
	Say	**3126.00**

4.2.15 750 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2747	MS perforated cable tray Bend 750 X 75 X 2 mm	each	1.00	2299.70	2299.70
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	67.00	67.00
2805	35 mm X 35 mm X 4 mm angle iron= 1 X 0.8m =0.8 @2.09kg/m = 1.67kg	kg	0.67	56.00	93.52
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2545.02**
	Cartage @ 1 % of A1				25.45
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2793.99**
	Add 12% GST (MF= 0.1405)				**392.56**
	TOTAL				**3186.55**
	OVERHEADS & PROFIT @ 15 %				**477.98**
	TOTAL				**3664.53**
	Rates for each				3664.53
	Say				**3665.00**

4.2.16 900 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2748	MS perforated cable tray Bend 900 X 75 X 2 mm	each	1.00	2683.20	2683.20

2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	71.00	71.00
2805	35 mm X 35 mm X 5 mm angle iron= 1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	56.00	137.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2976.76**
	Cartage @ 1 % of A1				29.77
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3230.05**
	Add 12% GST (MF= 0.1405)				**453.82**
	TOTAL				**3683.87**
	OVERHEADS & PROFIT @ 15 %				**552.58**
	TOTAL				**4236.45**
	Rates for each				4236.45
	Say				**4236.00**

4.3 Supplying and installing following size of perforated painted with powder coating M.S. cable trays Tee with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.

4.3.1 100 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2765	MS perforated cable tray Tee 100 X 50 X 1.6 mm	each	1.00	511.55	511.55
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	30.00	30.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.15m =0.15 @1.11kg/m = 0.17kg	kg	0.17	56.00	9.52
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**618.67**
	Cartage @ 1 % of A1				6.19
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**764.56**
	Add 12% GST (MF= 0.1405)				**107.42**
	TOTAL				**871.98**
	OVERHEADS & PROFIT @ 15 %				**130.80**
	TOTAL				**1002.78**
	Rates for each				1002.78
	Say				**1003.00**

4.3.2 150 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2766	MS perforated cable tray Tee 150 X 50 X 1.6 mm	each	1.00	638.30	638.30
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	39.00	39.00
2804	25 mm X 25 mm X 3 mm angle iron = 0.2 @ 1.11kg/m = 0.22kg	kg	0.22	56.00	12.32
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**757.22**
	Cartage @ 1 % of A1				7.57
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**904.49**
	Add 12% GST (MF= 0.1405)				**127.08**
	TOTAL				**1031.57**
	OVERHEADS & PROFIT @ 15 %				**154.74**
	TOTAL				**1186.31**
	Rates for each				1186.31
	Say				**1186.00**

4.3.3 200 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2767	MS perforated cable tray Tee 225 X 50 X 1.6 mm	each	1.00	830.05	830.05
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	40.00	40.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.25m =0.25 @1.11kg/m = 0.28kg	kg	0.28	56.00	15.68
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**953.33**
	Cartage @ 1 % of A1				9.53
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1102.56**
	Add 12% GST (MF= 0.1405)				**154.91**
	TOTAL				**1257.47**
	OVERHEADS & PROFIT @ 15 %				**188.62**
	TOTAL				**1446.09**
	Rates for each				1446.09
	Say				**1446.00**

4.3.4 300 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2768	MS perforated cable tray Tee 300 X 50 X 1.6 mm	each	1.00	1021.80	1021.80
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	40.00	40.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.35m =0.35 @1.11kg/m = 0.39kg	kg	0.39	56.00	21.84
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**1151.24**
	Cartage @ 1 % of A1				11.51
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1302.45**
	Add 12% GST (MF= 0.1405)				**182.99**
	TOTAL				**1485.45**
	OVERHEADS & PROFIT @ 15 %				**222.82**
	TOTAL				**1708.27**
	Rates for each				1708.27
	Say				**1708.00**

4.3.5 375 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2769	MS perforated cable tray Tee 375 X 50 X 2 mm	each	1.00	1517.75	1517.75
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	44.00	44.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m =0.43 @2.09kg/m = 0.9kg	kg	0.90	56.00	50.40
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1679.75**
	Cartage @ 1 % of A1				16.80
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1836.25**
	Add 12% GST (MF= 0.1405)				**257.99**
	TOTAL				**2094.24**
	OVERHEADS & PROFIT @ 15 %				**314.14**
	TOTAL				**2408.38**
	Rates for each				2408.38
	Say				**2408.00**

4.3.6 450 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2770	MS perforated cable tray Tee 450 X 50 X 2 mm	each	1.00	1756.30	1756.30
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	51.00	51.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m =0.5 @2.09kg/m = 1.05kg	kg	1.05	56.00	58.80
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1943.70**
	Cartage @ 1 % of A1				19.44
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2102.84**
	Add 12% GST (MF= 0.1405)				**295.45**
	TOTAL				**2398.29**
	OVERHEADS & PROFIT @ 15 %				**359.74**
	TOTAL				**2758.03**
	Rates for each				2758.03
	Say				**2758.00**

4.3.7 600 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2771	MS perforated cable tray Tee 600 X 50 X 2 mm	each	1.00	2236.00	2236.00
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	56.00	56.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**2452.96**
	Cartage @ 1 % of A1				24.53
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2617.19**
	Add 12% GST (MF= 0.1405)				**367.72**
	TOTAL				**2984.90**
	OVERHEADS & PROFIT @ 15 %				**447.74**
	TOTAL				**3432.64**
	Rates for each				3432.64
	Say				**3433.00**

4.3.8 300 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2772	MS perforated cable tray Tee 300 X 62.5 X 2 mm	each	1.00	1356.55	1356.55
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	44.00	44.00
2804	25 mm X 25 mm X 3 mm angle iron = 0.35 @1.11kg/m = 0.39kg	kg	0.39	56.00	21.84
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1497.19**
	Cartage @ 1 % of A1				14.97
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1651.86**
	Add 12% GST (MF= 0.1405)				**232.09**
	TOTAL				**1883.95**
	OVERHEADS & PROFIT @ 15 %				**282.59**
	TOTAL				**2166.54**
	Rates for each				2166.54
	Say				**2167.00**

4.3.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2773	MS perforated cable tray Tee 375 X 62.5 X 2 mm	each	1.00	1597.05	1597.05
2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	50.00	50.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m =0.43 @2.09kg/m = 0.9kg	kg	0.90	56.00	50.40
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1772.25**
	Cartage @ 1 % of A1				17.72
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1929.67**
	Add 12% GST (MF= 0.1405)				**271.12**
	TOTAL				**2200.79**
	OVERHEADS & PROFIT @ 15 %				**330.12**
	TOTAL				**2530.91**
	Rates for each				2530.91
	Say				**2531.00**

4.3.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2774	MS perforated cable tray Tee 450 X 62.5 X 2 mm	each	1.00	1836.25	1836.25
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	55.00	55.00
2805	35 mm X 35 mm X 4 mm angle iron= 1 X 0.5m = @2.09kg/m = 1.05kg	kg	1.05	56.00	58.80
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**2017.65**
	Cartage @ 1 % of A1				20.18
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2261.35**
	Add 12% GST (MF= 0.1405)				**317.72**
	TOTAL				**2579.07**
	OVERHEADS & PROFIT @ 15 %				**386.86**
	TOTAL				**2965.93**
	Rates for each				2965.93
	Say				**2966.00**

4.3.11 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2775	MS perforated cable tray Tee 600 X 62.5 X 2 mm	each	1.00	2315.30	2315.30
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	61.00	61.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @ 2.09kg/m = 1.36kg	kg	1.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2537.26**
	Cartage @ 1 % of A1				17.72
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2786.15**
	Add 12% GST (MF= 0.1405)				**391.45**
	TOTAL				**3177.61**
	OVERHEADS & PROFIT @ 15 %				**476.64**
	TOTAL				**3654.25**
	Rates for each				3654.25
	Say				**3654.00**

4.3.12 750 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2776	MS perforated cable tray Tee 750 X 62.5 X 2 mm	each	1.00	2793.05	2793.05
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	67.00	67.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m =0.8 @2.09kg/m = 1.67kg	kg	1.67	56.00	93.52
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**3038.37**
	Cartage @ 1 % of A1				30.38
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3292.27**
	Add 12% GST (MF= 0.1405)				**462.56**
	TOTAL				**3754.84**
	OVERHEADS & PROFIT @ 15 %				**563.23**
	TOTAL				**4318.07**
	Rates for each				4318.07
	Say				**4318.00**

4.3.13 900 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2777	MS perforated cable tray Tee 900 X 62.5 X 2 mm	each	1.00	3272.75	3272.75
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	71.00	71.00
2805	35 mm X 35 mm X 4 mm angle iron =1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	56.00	137.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and fInish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**3566.31**
	Cartage @ 1 % of A1				35.66
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3825.49**
	Add 12% GST (MF= 0.1405)				**537.48**
	TOTAL				**4362.97**
	OVERHEADS & PROFIT @ 15 %				**654.45**
	TOTAL				**5017.42**
	Rates for each				5017.42
	Say				**5017.00**

4.3.14 600 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2778	MS perforated cable tray Tee 600 X 75 X 2 mm	each	1.00	2395.25	2395.25
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	61.00	61.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2617.21**
	Cartage @ 1 % of A1				26.17
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2866.90**
	Add 12% GST (MF= 0.1405)				**402.80**
	TOTAL				**3269.70**
	OVERHEADS & PROFIT @ 15 %				**490.46**
	TOTAL				**3760.16**
	Rates for each				3760.16
	Say				**3760.00**

4.3.15 750 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2779	MS perforated cable tray Tee 750 X 75 X 2 mm	each	1.00	2874.30	2874.30
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	67.00	67.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m =0.8 @2.09kg/m = 1.67kg	kg	1.67	56.00	93.52
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and flnish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**3119.62**
	Cartage @ 1 % of A1				31.20
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3374.34**
	Add 12% GST (MF= 0.1405)				**474.09**
	TOTAL				**3848.43**
	OVERHEADS & PROFIT @ 15 %				**577.26**
	TOTAL				**4425.69**
	Rates for each				4425.69
	Say				**4426.00**

4.3.16 900 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2780	MS perforated cable tray Tee 900 X 75 X 2 mm	each	1.00	3354.00	3354.00
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	71.00	71.00
2806	35 mm X 35 mm X 5 mm angle iron = 1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	56.00	137.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**3647.56**
	Cartage @ 1 % of A1				36.48
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3907.56**
	Add 12% GST (MF= 0.1405)				**549.01**
	TOTAL				**4456.57**
	OVERHEADS & PROFIT @ 15 %				**668.49**
	TOTAL				**5125.06**
	Rates for each				5125.06
	Say				**5125.00**

4.4 Supplying and installing following size of perforated painted with powder coating M.S. cable trays Cross Member with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.

4.4.1 100 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2781	MS perforated cable tray Cross member 100 X 50 X 1.6 mm	each	1.00	614.25	614.25
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	30.00	30.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.15m =0.15 @1.11kg/m = 0.17kg	kg	0.17	56.00	9.52
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**721.37**
	Cartage @ 1 % of A1				7.21
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**868.28**
	Add 12% GST (MF= 0.1405)				**121.99**
	TOTAL				**990.28**

	OVERHEADS & PROFIT @ 15 %	**148.54**
	TOTAL	**1138.82**
	Rates for each	1138.82
	Say	**1139.00**

4.4.2 150 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2782	MS perforated cable tray Cross member 150 X 50 X 1.6 mm	each	1.00	766.35	766.35
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	39.00	39.00
2804	25 mm X 25 mm X 3 mm angle iron = 0.2 @ 1.11kg/m = 0.22kg	kg	0.22	56.00	12.32
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**885.27**
	Cartage @ 1 % of A1				8.85
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1033.82**
	Add 12% GST (MF= 0.1405)				**145.25**
	TOTAL				**1179.07**
	OVERHEADS & PROFIT @ 15 %				**176.86**
	TOTAL				**1355.93**
	Rates for each				1355.93
	Say				**1356.00**

4.4.3 200 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2783	MS perforated cable tray Cross member 225 X 50 X 1.6 mm	each	1.00	996.45	996.45
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	40.00	40.00

2804	25 mm X 25 mm X 3 mm angle iron = 0.2 @ 1.11kg/m = 0.22kg	kg	0.28	56.00	15.68
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1119.73**
	Cartage @ 1 % of A1				11.20
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1270.63**
	Add 12% GST (MF= 0.1405)				**178.52**
	TOTAL				**1449.15**
	OVERHEADS & PROFIT @ 15 %				**217.37**
	TOTAL				**1666.52**
	Rates for each				1666.52
	Say				**1667.00**

4.4.4 300 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2784	MS perforated cable tray Cross member 300 X 50 X 1.6 mm	each	1.00	1226.55	1226.55
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	40.00	40.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.35m =0.35 @1.11kg/m = 0.39kg	kg	0.39	56.00	21.84
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1355.99**
	Cartage @ 1 % of A1				13.56
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1509.25**
	Add 12% GST (MF= 0.1405)				**212.05**

	TOTAL				**1721.30**
	OVERHEADS & PROFIT @ 15 %				**258.19**
	TOTAL				**1979.49**
	Rates for each				1979.49
	Say				**1979.00**

4.4.5 375 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2785	MS perforated cable tray Cross member 375 X 50 X 2 mm	each	1.00	1821.30	1821.30
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	44.00	44.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m =0.43 @2.09kg/m = 0.9kg	kg	0.90	56.00	50.40
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1983.30**
	Cartage @ 1 % of A1				19.83
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2142.83**
	Add 12% GST (MF= 0.1405)				**301.07**
	TOTAL				**2443.90**
	OVERHEADS & PROFIT @ 15 %				**366.59**
	TOTAL				**2810.49**
	Rates for each				2810.49
	Say				**2810.00**

4.4.6 450 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2786	MS perforated cable tray Cross member 450 X 50 X 2 mm	each	1.00	2107.95	2107.95
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	eachy	1.00	51.00	51.00

2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m =0.5 @2.09kg/m = 1.05kg	kg	1.05	56.00	58.80
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2295.35**
	Cartage @ 1 % of A1				22.95
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2458.00**
	Add 12% GST (MF= 0.1405)				**345.35**
	TOTAL				**2803.35**
	OVERHEADS & PROFIT @ 15 %				**420.50**
	TOTAL				**3223.85**
	Rates for each				3223.85
	Say				**3224.00**

4.4.7 600 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2787	MS perforated cable tray Cross member 600 X 50 X 2 mm	each	1.00	2683.20	2683.20
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	56.00	56.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.358kg	kg	1.358	56.00	76.05
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2900.05**
	Cartage @ 1 % of A1				29.00
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**3068.75**
	Add 12% GST (MF= 0.1405)				**431.16**

	TOTAL	**3499.91**
	OVERHEADS & PROFIT @ 15 %	**524.99**
	TOTAL	**4024.90**
	Rates for each	4024.90
	Say	**4025.00**

4.4.8 300 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2788	MS perforated cable tray Cross member 300 X 62.5 X 2 mm	each	1.00	1628.25	1628.25
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	44.00	44.00
2804	25 mm X 25 mm X 3 mm angle iron = 0.35 @1.11kg/m = 0.39kg	kg	0.39	56.00	21.84
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1768.89**
	Cartage @ 1 % of A1				17.69
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1926.28**
	Add 12% GST (MF= 0.1405)				**270.64**
	TOTAL				**2196.92**
	OVERHEADS & PROFIT @ 15 %				**329.54**
	TOTAL				**2526.46**
	Rates for each				2526.46
	Say				**2526.00**

4.4.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2789	MS perforated cable tray Cross member 375 X 62.5 X 2 mm	each	1.00	1916.85	1916.85
2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	eachy	1.00	50.00	50.00

2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m =0.43 @2.09kg/m = 0.9kg	kg	1.05	56.00	58.80
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2092.05**
	Cartage @ 1 % of A1				20.92
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2252.67**
	Add 12% GST (MF= 0.1405)				**316.50**
	TOTAL				**2569.17**
	OVERHEADS & PROFIT @ 15 %				**385.38**
	TOTAL				**2954.55**
	Rates for each				2954.55
	Say				**2955.00**

4.4.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2790	MS perforated cable tray Cross member 450 X 62.5 X 2 mm	each	1.00	2203.50	2203.50
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	55.00	55.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m = @2.09kg/m = 1.05kg	kg	1.05	56.00	58.80
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2384.90**
	Cartage @ 1 % of A1				23.85
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2632.27**
	Add 12% GST (MF= 0.1405)				**369.83**

	TOTAL	**3002.10**
	OVERHEADS & PROFIT @ 15 %	**450.32**
	TOTAL	**3452.42**
	Rates for each	3452.42
	Say	**3452.00**

4.4.11 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2791	MS perforated cable tray Cross member 600 X 62.5 X 2 mm	each	1.00	2778.75	2778.75
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	61.00	61.00
2805	35 mm X 35 mm X 4 mm angle iron= 1 X 0.65m =0.65 @ 2.09kg/m = 1.36kg	kg	1.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**3000.71**
	Cartage @ 1 % of A1				**30.01**
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3254.24**
	Add 12% GST (MF= 0.1405)				**457.22**
	TOTAL				**3711.46**
	OVERHEADS & PROFIT @ 15 %				**556.72**
	TOTAL				**4268.18**
	Rates for each				4268.18
	Say				**4268.00**

4.4.12 750 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2792	MS perforated cable tray Cross member 750 X 62.5 X 2 mm	each	1.00	3352.05	3352.05
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	eachy	1.00	67.00	67.00

2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m =0.8 @2.09kg/m = 1.67kg	kg	1.67	56.00	93.52
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**3597.37**
	Cartage @ 1 % of A1				35.97
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3856.86**
	Add 12% GST (MF= 0.1405)				**541.89**
	TOTAL				**4398.75**
	OVERHEADS & PROFIT @ 15 %				**659.81**
	TOTAL				**5058.56**
	Rates for each				5058.56
	Say				**5059.00**

4.4.13 900 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2793	MS perforated cable tray Cross member 900 X 62.5 X 2 mm	each	1.00	3927.30	3927.30
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	71.00	71.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	56.00	137.76
2855	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**4220.86**
	Cartage @ 1 % of A1				42.21
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4486.59**
	Add 12% GST (MF= 0.1405)				**630.37**

	TOTAL				**5116.95**
	OVERHEADS & PROFIT @ 15 %				**767.54**
	TOTAL				**5884.49**
	Rates for each				5884.49
	Say				**5884.00**

4.4.14 600 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2794	MS perforated cable tray Cross member 600 X 75 X 2 mm	each	1.00	2874.30	2874.30
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	61.00	61.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**3096.26**
	Cartage @ 1 % of A1				30.96
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3350.74**
	Add 12% GST (MF= 0.1405)				**470.78**
	TOTAL				**3821.52**
	OVERHEADS & PROFIT @ 15 %				**573.23**
	TOTAL				**4394.75**
	Rates for each				4394.75
	Say				**4395.00**

4.4.15 750 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2795	MS perforated cable tray Cross member 750 X 75 X 2 mm	each	1.00	3449.55	3449.55
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	eachy	1.00	67.00	67.00

2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m =0.8 @2.09kg/m = 1.67kg	kg	1.67	56.00	93.52
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**3694.87**
	Cartage @ 1 % of A1				36.95
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3955.34**
	Add 12% GST (MF= 0.1405)				**555.73**
	TOTAL				**4511.06**
	OVERHEADS & PROFIT @ 15 %				**676.66**
	TOTAL				**5187.72**
	Rates for each				5187.72
	Say				**5188.00**

4.4.16 900 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2796	MS perforated cable tray Cross member 900 X 75 X 2 mm	each	1.00	4024.80	4024.80
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	71.00	71.00
2806	35 mm X 35 mm X 5 mm angle iron = 1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	56.00	137.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**4318.36**
	Cartage @ 1 % of A1				43.18
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4585.06**
	Add 12% GST (MF= 0.1405)				**644.20**

	TOTAL	**5229.27**
	OVERHEADS & PROFIT @ 15 %	**784.39**
	TOTAL	**6013.66**
	Rates for each	6013.66
	Say	**6014.00**

4.5 Supplying and installing following size of perforated painted with powder coating M.S. cable trays Reducer with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.

4.5.1 100 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2749	MS perforated cable tray Reducer 100 X 50 X 1.6 mm	each	1.00	511.55	511.55
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	30.00	30.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.15m =0.15 @1.11kg/m = 0.17kg	kg	0.17	56.00	9.52
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**618.67**
	Cartage @ 1 % of A1				**6.19**
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**764.56**
	Add 12% GST (MF= 0.1405)				**107.42**
	TOTAL				**871.98**
	OVERHEADS & PROFIT @ 15 %				**130.80**
	TOTAL				**1002.78**
	Rates for each				1002.78
	Say				**1003.00**

4.5.2 150 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2750	MS perforated cable tray Reducer 150 X 50 X 1.6 mm	each	1.00	638.30	638.30
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	39.00	39.00
2804	25 mm X 25 mm X 3 mm angle iron = 0.2 @ 1.11kg/m = 0.22kg	kg	0.17	56.00	12.32
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**757.22**
	Cartage @ 1 % of A1				7.57
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**904.49**
	Add 12% GST (MF= 0.1405)				**127.08**
	TOTAL				**1031.57**
	OVERHEADS & PROFIT @ 15 %				**154.74**
	TOTAL				**1186.31**
	Rates for each				1186.31
	Say				**1186.00**

4.5.3 225 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2751	MS perforated cable tray Reducer 225 X 50 X 1.6 mm	each	1.00	830.05	830.05
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	40.00	40.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.25m =0.25 @1.11kg/m = 0.28kg	kg	0.28	56.00	15.68
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**960.53**
	Cartage @ 1 % of A1				9.61
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1109.84**
	Add 12% GST (MF= 0.1405)				**155.93**
	TOTAL				**1265.77**
	OVERHEADS & PROFIT @ 15 %				**189.87**
	TOTAL				**1455.64**
	Rates for each				1455.64
	Say				**1456.00**

4.5.4 300 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2752	MS perforated cable tray Reducer 300 X 50 X 1.6 mm	each	1.00	1021.80	1021.80
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	40.00	40.00
2804	25 mm X 25 mm X 3 mm angle iron = 1 X 0.35m =0.35 @1.11kg/m = 0.39kg	kg	0.39	56.00	21.84
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1158.44**
	Cartage @ 1 % of A1				11.58
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1309.72**
	Add 12% GST (MF= 0.1405)				**184.02**
	TOTAL				**1493.74**
	OVERHEADS & PROFIT @ 15 %				**224.06**
	TOTAL				**1717.80**
	Rates for each				1717.80
	Say				**1718.00**

4.5.5 375 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2753	MS perforated cable tray Reducer 375 X 50 X 2 mm	each	1.00	1517.75	1517.75
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	44.00	44.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m =0.43 @2.09kg/m = 0.9kg	kg	0.97	56.00	50.40
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1686.95**
	Cartage @ 1 % of A1				16.87
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1843.52**
	Add 12% GST (MF= 0.1405)				**259.01**
	TOTAL				**2102.53**
	OVERHEADS & PROFIT @ 15 %				**315.38**
	TOTAL				**2417.91**
	Rates for each				2417.91
	Say				**2418.00**

4.5.6 450 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2754	MS perforated cable tray Reducer 450 X 50 X 2 mm	each	1.00	1756.30	1756.30
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	51.00	51.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m =0.5 @2.09kg/m = 1.05kg	kg	1.05	56.00	58.80
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**1950.90**
	Cartage @ 1 % of A1				19.51
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2110.11**
	Add 12% GST (MF= 0.1405)				**296.47**
	TOTAL				**2406.58**
	OVERHEADS & PROFIT @ 15 %				**360.99**
	TOTAL				**2767.57**
	Rates for each				2767.57
	Say				**2768.00**

4.5.7 600 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2755	MS perforated cable tray Reducer 600 X 50 X 2 mm	each	1.00	2236.00	2236.00
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	56.00	56.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2452.96**
	Cartage @ 1 % of A1				24.53
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2617.19**
	Add 12% GST (MF= 0.1405)				**367.72**
	TOTAL				**2984.90**
	OVERHEADS & PROFIT @ 15 %				**447.74**
	TOTAL				**3432.64**
	Rates for each				3432.64
	Say				**3433.00**

4.5.8 300 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2756	MS perforated cable tray Reducer 300 X 62.5 X 2 mm	each	1.00	1356.55	1356.55
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	44.00	44.00
2804	25 mm X 25 mm X 3 mm angle iron = 0.35 @1.11kg/m = 0.39kg	kg	0.39	56.00	21.84
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1497.19**
	Cartage @ 1 % of A1				14.97
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	36.70
1010	Mason, Grade 2	day	0.08	734.00	36.70
1007	Khallasi	day	0.16	663.00	66.30
	TOTAL				**1651.86**
	Add 12% GST (MF= 0.1405)				**232.09**
	TOTAL				**1883.95**
	OVERHEADS & PROFIT @ 15 %				**282.59**
	TOTAL				**2166.54**
	Rates for each				2166.54
	Say				**2167.00**

4.5.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2757	MS perforated cable tray Reducer 375 X 62.5 X 2 mm	each	1.00	1597.05	1597.05
2727	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	50.00	50.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.425m =0.43 @2.09kg/m = 0.9kg	kg	0.90	56.00	50.40
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**1772.25**
	Cartage @ 1 % of A1				17.72
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	36.70
1010	Mason, Grade 2	day	0.08	734.00	36.70
1007	Khallasi	day	0.16	663.00	66.30
	TOTAL				**1929.67**
	Add 12% GST (MF= 0.1405)				**271.12**
	TOTAL				**2200.79**
	OVERHEADS & PROFIT @ 15 %				**330.12**
	TOTAL				**2530.91**
	Rates for each				2530.91
	Say				**2531.00**

4.5.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2758	MS perforated cable tray Reducer 450 X 62.5 X 2 mm	each	1.00	1836.25	1836.25
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	55.00	55.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.5m = @2.09kg/m = 1.05kg	kg	1.05	56.00	58.80
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
2801	MS Suspender 6 mm dia 0.75m long	each	2.00	23.00	46.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2017.65**
	Cartage @ 1 % of A1				20.18
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2261.35**
	Add 12% GST (MF= 0.1405)				**317.72**
	TOTAL				**2579.07**
	OVERHEADS & PROFIT @ 15 %				**386.86**
	TOTAL				**2965.93**
	Rates for each				2965.93
	Say				**2966.00**

4.5.11 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2759	MS perforated cable tray Reducer 600 X 62.5 X 2 mm	each	1.00	2315.30	2315.30
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	61.00	61.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @ 2.09kg/m = 1.36kg	kg	1.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2537.26**
	Cartage @ 1 % of A1				25.37
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2786.15**
	Add 12% GST (MF= 0.1405)				**391.45**
	TOTAL				**3177.61**
	OVERHEADS & PROFIT @ 15 %				**476.64**
	TOTAL				**3654.25**
	Rates for each				3654.25
	Say				**3654.00**

4.5.12 750 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2760	MS perforated cable tray Reducer 750 X 62.5 X 2 mm	each	1.00	2793.05	2793.05
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	67.00	67.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m =0.8 @2.09kg/m = 1.67kg	kg	0.90	56.00	50.40
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**3038.37**
	Cartage @ 1 % of A1				30.38
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3292.27**
	Add 12% GST (MF= 0.1405)				**462.56**
	TOTAL				**3754.84**
	OVERHEADS & PROFIT @ 15 %				**563.23**
	TOTAL				**4318.07**
	Rates for each				4318.07
	Say				**4318.00**

4.5.13 900 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2761	MS perforated cable tray Reducer 900 X 62.5 X 2 mm	each	1.00	3272.75	3272.75
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	71.00	71.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	56.00	137.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**3566.31**
	Cartage @ 1 % of A1				35.66
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3825.49**
	Add 12% GST (MF= 0.1405)				**537.48**
	TOTAL				**4362.97**
	OVERHEADS & PROFIT @ 15 %				**654.45**
	TOTAL				**5017.42**
	Rates for each				5017.42
	Say				**5017.00**

4.5.14 600 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2762	MS perforated cable tray Reducer 600 X 75 X 2 mm	each	1.00	2395.25	2395.25
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	61.00	61.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.65m =0.65 @2.09kg/m = 1.36kg	kg	1.36	56.00	76.16
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2617.21**
	Cartage @ 1 % of A1				26.17
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2866.90**
	Add 12% GST (MF= 0.1405)				**402.80**
	TOTAL				**3269.70**
	OVERHEADS & PROFIT @ 15 %				**490.46**
	TOTAL				**3760.16**
	Rates for each				3760.16
	Say				**3760.00**

4.5.15 750 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2763	MS perforated cable tray Reducer 750 X 75 X 2 mm	each	1.00	2874.30	2874.30
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	67.00	67.00
2805	35 mm X 35 mm X 4 mm angle iron = 1 X 0.8m =0.8 @2.09kg/m = 1.67kg	kg	1.67	56.00	93.52
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20

	Total cost of materials				**3119.62**
	Cartage @ 1 % of A1				31.20
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3374.34**
	Add 12% GST (MF= 0.1405)				**474.09**
	TOTAL				**3848.43**
	OVERHEADS & PROFIT @ 15 %				**577.26**
	TOTAL				**4425.69**
	Rates for each				4425.69
	Say				**4426.00**

4.5.16 900 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2764	MS perforated cable tray Reducer 900 X 75 X 2 mm	each	1.00	3354.00	3354.00
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	71.00	71.00
2806	35 mm X 35 mm X 5 mm angle iron = 1 X 0.95m =0.95 @2.59kg/m = 2.46kg	kg	2.46	56.00	137.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
2802	MS Suspender 8 mm dia 0.75m long	each	2.00	28.00	56.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**3647.56**
	Cartage @ 1 % of A1				36.48
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3907.56**
	Add 12% GST (MF= 0.1405)				**549.01**
	TOTAL				**4456.57**
	OVERHEADS & PROFIT @ 15 %				**668.49**
	TOTAL				**5125.06**
	Rates for each				5125.06
	Say				**5125.00**

4.6 Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray cable tray with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.

4.6.1 100 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3701	Perforated cable tray Hot Dipped Galvanised Iron 100mm X 50mm X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	255.51	8048.52
3717	Perforated cable tray connector Hot Dipped Galvanised Iron 100mm X 50mm X 1.6 mm	each	9.00	32.03	288.31
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 20x0.15m = 3.0m @ 1.11 kg/m = 3.33kg	kg	3.33	43.47	144.77
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.36	854.24
	Total cost of materials				**9623.83**
	Cartage @ 1 % of A1				96.24
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**15308.07**
	Add 12% GST (MF= 0.1405)				**2150.78**
	TOTAL				**17458.85**
	Add 15 % Over Head & Contractor Profit				**2618.83**
	Cost for 30 meter				**20077.68**
	Rate per meter				669.26
	Say				**669.00**

4.6.2 150 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3702	Perforated cable tray Hot Dipped Galvanised Iron 150 X 50 X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	286.02	9009.53
3718	Perforated cable tray Connector Hot Dipped Galvanised Iron 150 X 50 X 1.6 mm	each	9.00	38.14	343.22

3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 20x0.2m = 4.0m @ 1.11 kg/m = 4.44kg	kg	4.44	43.47	193.03
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.36	854.24
	Total cost of materials				**10688.02**
	Cartage @ 1 % of A1				106.88
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**16382.90**
	Add 12% GST (MF= 0.1405)				**2301.80**
	TOTAL				**18684.70**
	Add 15 % Over Head & Contractor Profit				**2802.70**
	Cost for 30 meter				**21487.40**
	Rate per meter				716.25
	Say				**716.00**

4.6.3 225 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3703	perforated cable tray Hot Dipped Galvanised iron 225 X 50 X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	412.63	12997.75
3719	Perforated cable tray connector Hot Dipped Galvanised Iron 225mm X 50mm X 1.6 mm	each	9.00	40.42	363.81
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 20x0.25m = 5.0m @ 1.11 kg/m = 5.55kg	kg	5.55	43.47	241.28
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.36	854.24
	Total cost of materials				**14745.09**
	Cartage @ 1 % of A1				147.45
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**20480.54**
	Add 12% GST (MF= 0.1405)				**2877.52**

	TOTAL				**23358.06**
	Add 15 % Over Head & Contractor Profit				**3503.71**
	Cost for 30 meter				**26861.76**
	Rate per meter				895.39
	Say				**895.00**

4.6.4 300 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3704	Perforated cable tray Hot Dipped Galvanised Iron 300 X 50 X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	458.39	14439.28
3720	Perforated cable tray Connector Hot Dipped Galvanised Iron 300 X 50 X 1.6 mm	each	9.00	40.42	363.81
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 20x0.35m = 7.0m @ 1.11 kg/m = 7.77 kg	kg	7.77	43.47	337.80
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.36	854.24
	Total cost of materials				**16283.13**
	Cartage @ 1 % of A1				162.83
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**22033.96**
	Add 12% GST (MF= 0.1405)				**3095.77**
	TOTAL				**25129.73**
	Add 15 % Over Head & Contractor Profit				**3769.46**
	Cost for 30 meter				**28899.19**
	Rate per meter				963.31
	Say				**963.00**

4.6.5 375 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3705	Perforated cable tray Hot Dipped Galvanised Iron 375 X 50 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	623.90	19652.80

3721	Perforated cable tray Connector Hot Dipped Galvanised Iron 375 X 50 X 2 mm	each	9.00	40.42	363.81
3805	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel = 20x0.425m = 8.5m @ 2.09 kg/m = 17.77kg	kg	17.77	43.47	772.54
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.36	854.24
	Total cost of materials				**21931.39**
	Cartage @ 1 % of A1				219.31
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**27738.70**
	Add 12% GST (MF= 0.1405)				**3897.29**
	TOTAL				**31635.99**
	Add 15 % Over Head & Contractor Profit				**4745.40**
	Cost for 30 meter				**36381.39**
	Rate per meter				1212.71
	Say				**1213.00**

4.6.6 450 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3706	Perforated cable tray Hot Dipped Galvanised Iron 450 X 50 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	693.31	21839.11
3722	Perforated cable trayConnector Hot Dipped Galvanised Iron 450 X 50 X 2 mm	each	9.00	40.42	363.81
3804	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel = 20x0.5m = 10.0m @ 2.09 kg/m = 20.09kg	kg	20.90	43.47	908.62
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	26.69	1067.80
	Total cost of materials				**24467.34**
	Cartage @ 1 % of A1				244.67
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00

1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**30300.01**
	Add 12% GST (MF= 0.1405)				**4257.15**
	TOTAL				**34557.16**
	Add 15 % Over Head & Contractor Profit				**5183.57**
	Cost for 30 meter				**39740.74**
	Rate per meter				1324.69
	Say				**1325.00**

4.6.7 600 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3707	Perforated cable tray Hot Dipped Galvanised Iron 600 X 50 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	1014.41	31953.81
3723	Perforated cable tray Connector Hot Dipped Galvanised Iron 600 X 50 X 2 mm	each	9.00	40.42	363.81
3804	35 mm X 55 mm X 4 mm Gaalvannised slotted/angle iron/ channel = 20x0.65m = 13.0m @ 2.09 kg/m = 27.17kg	kg	27.17	43.47	1181.20
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	26.69	1067.80
	Total cost of materials				**34998.63**
	Cartage @ 1 % of A1				349.99
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**40936.61**
	Add 12% GST (MF= 0.1405)				**5751.59**
	TOTAL				**46688.21**
	Add 15 % Over Head & Contractor Profit				**7003.23**
	Cost for 30 meter				**53691.44**
	Rate per meter				1789.71
	Say				**1790.00**

4.6.8 600 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)

	MATERIALS				
3708	Perforated cable tray Hot Dipped Galvanised Iron 300 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	617.03	19436.57
3724	Perforated cable tray Hot Dipped Galvanised Iron Connector 300 X 62.5 X 2 mm	each	9.00	40.42	363.81
3805	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 20x0.35m = 7.0m @ 1.11 kg/m = 7.77kg	kg	7.17	43.47	337.80
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.36	854.24
	Total cost of materials				**21424.42**
	Cartage @ 1 % of A1				214.24
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**27226.66**
	Add 12% GST (MF= 0.1405)				**3825.35**
	TOTAL				**31052.01**
	Add 15 % Over Head & Contractor Profit				**4657.80**
	Cost for 30 meter				**35709.81**
	Rate per meter				1190.33
	Say				**1190.00**

4.6.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3709	Perforated cable tray Hot Dipped Galvanised Iron 375 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	726.10	22872.20
3725	Perforated cable tray Connector Hot Dipped Galvanised Iron 375 X 62.5 X 2 mm	each	9.00	40.42	363.81
3805	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel = 20x0.425m = 8.5m @ 2.09 kg/m = 17.77kg	kg	17.77	43.47	772.54
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.36	854.24

2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.36	854.24
	Total cost of materials				**25294.80**
	Cartage @ 1 % of A1				252.95
	LABOUR				
1005	Fitter, Grade 2	day	2.00	734.00	1468.00
1010	Mason, Grade 2	day	2.00	734.00	1468.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**31135.75**
	Add 12% GST (MF= 0.1405)				**4374.57**
	TOTAL				**35510.32**
	Add 15 % Over Head & Contractor Profit				**5326.55**
	Cost for 30 meter				40836.87
	Rate per meter				**1361.23**
	Say				**1361.00**

4.6.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3710	Perforated cable tray Hot Dipped Galvanised Iron 450 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	835.17	26307.84
3726	Perforated cable trayConnector Hot Dipped Galvanised Iron 450 X 62.5 X 2 mm	each	9.00	40.42	363.81
3805	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel = 20x0.5m = 10.0m @ 2.09 kg/m = 20.09kg	kg	20.90	43.47	908.62
2855	Steel fastener 6 mm X 75 mm	each	40.00	7.20	288.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	21.36	854.24
	Total cost of materials				**28722.51**
	Cartage @ 1 % of A1				287.23
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	6.00	663.00	3315.00
	TOTAL				**35994.73**
	Add 12% GST (MF= 0.1405)				**5057.26**
	TOTAL				**41051.99**
	Add 15 % Over Head & Contractor Profit				**6157.80**

	Cost for 30 meter	**47209.79**
	Rate per meter	1573.66
	Say	**1574.00**

4.6.11 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3711	Perforated cable tray Hot Dipped Galvanised Iron 600 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	1056.36	33275.21
3727	Perforated cable trayConnector Hot Dipped Galvanised Iron 600 X 62.5 X 2 mm	each	9.00	40.42	363.81
3805	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel = 20x0.65m = 13.0m @ 2.09 kg/m = 27.17kg	kg	27.17	43.47	1181.20
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	26.69	1067.80
	Total cost of materials				**36320.03**
	Cartage @ 1 % of A1				363.20
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**43668.23**
	Add 12% GST (MF= 0.1405)				**6135.39**
	TOTAL				**49803.61**
	Add 15 % Over Head & Contractor Profit				**7470.54**
	Cost for 30 meter				**57274.15**
	Rate per meter				1909.14
	Say				**1909.00**

4.6.12 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3712	Perforated cable tray Hot Dipped Galvanised Iron 750 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	1298.14	40891.27
3728	Perforated cable tray Connector Hot Dipped Galvanised Iron 750 X 62.5 X 2 mm	each	9.00	40.42	363.81

3805	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel = 20x0.8m = 16.0m @ 2.09 kg/m = 33.44kg	kg	33.44	43.47	1453.79
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	26.69	1067.80
	Total cost of materials				**44208.67**
	Cartage @ 1 %				442.09
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**51635.76**
	Add 12% GST (MF= 0.1405)				**7254.82**
	TOTAL				**58890.58**
	Add 15 % Over Head & Contractor Profit				**8833.59**
	Cost for 30 meter				**67724.17**
	Rate per meter				2257.47
	Say				**2257.00**

4.6.12 900 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3713	Perforated cable tray Hot Dipped Galvanised Iron 900 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	1520.85	47906.69
3729	Perforated cable trayConnector Hot Dipped Galvanised Iron 900 X 62.5 X 2 mm	each	9.00	40.42	363.81
3805	35mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 20x0.95m = 19.0m @ 2.09 kg/m = 49.21 kg	kg	49.21	43.47	2139.38
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
3803	GI Suspender 10 mm dia 0.75m long	each	40.00	32.03	1281.36
	Total cost of materials				**52123.25**
	Cartage @ 1 %				521.23
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00

	TOTAL	**59629.48**
	Add 12% GST (MF= 0.1405)	**8377.94**
	TOTAL	**68007.42**
	Add 15 % Over Head & Contractor Profit	**10201.11**
	Cost for 30 meter	**78208.54**
	Rate per meter	2606.95
	Say	**2607.00**

4.6.14 600 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3714	Perforated cable tray Hot Dipped Galvanised Iron 600 X 75 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	1089.15	34308.31
3727	Perforated cable tray Connector Hot Dipped Galvanised Iron 600 X 62.5 X 2 mm	each	9.00	40.42	363.81
3805	35 mm X 35 mm X 4 mm Gaalvannised slotted/angle iron/ channel = 20x0.65m = 13.0m @ 2.09 kg/m = 27.17 kg	kg	27.17	43.47	1181.20
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	26.69	1067.80
	Total cost of materials				**37353.12**
	Cartage @ 1 %				373.53
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**44711.65**
	Add 12% GST (MF= 0.1405)				**6281.99**
	TOTAL				**50993.64**
	Add 15 % Over Head & Contractor Profit				**7649.05**
	Cost for 30 meter				**58642.68**
	Rate per meter				1954.76
	Say				**1955.00**

4.6.15 750 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

3715	Perforated cable tray Hot Dipped Galvanised Iron 750 X 75 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	1307.29	41179.58
3728	Perforated cable tray Connector Hot Dipped Galvanised Iron 750 X 75X 2 mm	each	9.00	40.42	363.81
3805	35 mm X 55 mm X 4 mm Gaalvannised slotted/angle iron/ channel = 20x0.8m = 16.0m @ 2.09 kg/m = 33.44kg	kg	33.44	43.47	1453.79
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	26.69	1067.80
	Total cost of materials				**44496.98**
	Cartage @ 1 %				444.97
	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**51926.95**
	Add 12% GST (MF= 0.1405)				**7295.74**
	TOTAL				**59222.68**
	Add 15 % Over Head & Contractor Profit				**8883.40**
	Cost for 30 meter				**68106.08**
	Rate per meter				2270.20
	Say				**2270.00**

4.6.16 900 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3716	Perforated cable tray Hot Dipped Galvanised Iron 900 X 75 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	meter	31.50	1524.66	48026.82
3729	Perforated cable tray Connector Hot Dipped Galvanised Iron 900 X 75 X 2 mm	each	9.00	40.42	363.81
3806	35mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 20x0.95m = 19.0m @ 2.59 kg/m = 49.21 kg	kg	49.21	43.47	2139.38
2856	Steel fastener 8 mm X 75 mm	each	40.00	10.80	432.00
3803	GI Suspender 10 mm dia 0.75m long	each	40.00	32.03	1281.36
	Total cost of materials				**52243.38**
	Cartage @ 1 %				522.43

	LABOUR				
1005	Fitter, Grade 2	day	2.50	734.00	1835.00
1010	Mason, Grade 2	day	2.50	734.00	1835.00
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**59750.81**
	Add 12% GST (MF= 0.1405)				**8394.99**
	TOTAL				**68145.80**
	Add 15 % Over Head & Contractor Profit				**10221.87**
	Cost for 30 meter				**78367.67**
	Rate per meter				2612.26
	Say				**2612.00**

4.7 Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends " (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.

4.7.1 100 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3733	Hot Dipped G.I. Perforated cable tray Bend 100 X 50 X 1.6 mm	each	1.00	639.92	639.92
3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	32.03	32.03
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.15m = 0.15m @ 1.11 kg/m = 0.17 kg	kg	0.17	43.47	7.39
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**736.45**
	Cartage @ 1 %				7.36
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**883.52**
	Add 12% GST (MF= 0.1405)				**124.13**
	TOTAL				**1007.65**
	Add 15 % Over Head & Contractor Profit				**151.15**
	TOTAL				**1158.80**
	Rate for 1 No				1158.80
	Say				**1159.00**

4.7.2 150 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3734	Hot Dipped G.I. Perforated cable tray Bend 150 X 50 X 1.6 mm	each	1.00	715.42	715.42
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	38.14	38.14
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.2m = 0.20m @ 1.11 kg/m = 0.22 kg	kg	0.22	43.47	9.56
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**820.24**
	Cartage @ 1 %				8.20
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**968.14**
	Add 12% GST (MF= 0.1405)				**136.02**
	TOTAL				**1104.16**
	Add 15 % Over Head & Contractor Profit				**165.62**
	TOTAL				**1269.79**
	Rate for 1 No				1269.79
	Say				**1270.00**

4.7.3 225 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3735	Hot Dipped G.I. Perforated cable tray Bend 225 X 50 X 1.6 mm	each	1.00	1030.42	1030.42
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	40.42	40.42
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.25m = 0.25m @ 1.11 kg/m = 0.28 kg	kg	0.28	43.47	12.17
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40

3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1140.13**
	Cartage @ 1 %				11.40
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1291.23**
	Add 12% GST (MF= 0.1405)				**181.42**
	TOTAL				**1472.65**
	Add 15 % Over Head & Contractor Profit				**220.90**
	TOTAL				**1693.55**
	Rate for 1 No				1693.55
	Say				**1694.00**

4.7.4 300 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3736	Hot Dipped G.I. Perforated cable tray Bended 300 X 50 X 1.6 mm	each	1.00	1145.59	1145.59
3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	40.42	40.42
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	43.47	16.96
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1260.08**
	Cartage @ 1 %				12.60
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1412.38**
	Add 12% GST (MF= 0.1405)				**198.44**
	TOTAL				**1610.82**
	Add 15 % Over Head & Contractor Profit				**241.62**
	TOTAL				**1852.45**
	Rate for 1 No				1852.45
	Say				**1852.00**

4.7.5 375 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3737	Hot Dipped G.I. Perforated cable tray Bend 375 X 50 X 2 mm	each	1.00	1558.98	1558.98
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	43.47	39.13
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1695.65**
	Cartage @ 1 %				16.96
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1852.30**
	Add 12% GST (MF= 0.1405)				**260.25**
	TOTAL				**2112.55**
	Add 15 % Over Head & Contractor Profit				**316.88**
	TOTAL				**2429.43**
	Rate for 1 No				2429.43
	Say				**2429.00**

4.7.6 450 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3738	Hot Dipped G.I. Perforated cable tray Bend 450 X 50 X 2 mm	each	1.00	1732.88	1732.88
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	43.47	45.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40

3801	GI Suspender 6 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**1886.74**
	Cartage @ 1 %				18.87
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2045.31**
	Add 12% GST (MF= 0.1405)				**287.37**
	TOTAL				**2332.68**
	Add 15 % Over Head & Contractor Profit				**349.90**
	TOTAL				**2682.58**
	Rate for 1 No				2682.58
	Say				**2683.00**

4.7.7 600 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3739	Hot Dipped G.I. Perforated cable tray Bend 600 X 50 X 2 mm	each	1.00	2536.02	2536.02
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**2710.56**
	Cartage @ 1 %				27.11
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2877.36**
	Add 12% GST (MF= 0.1405)				**404.27**
	TOTAL				**3281.63**
	Add 15 % Over Head & Contractor Profit				**492.24**
	TOTAL				**3773.88**
	Rate for 1 No				3773.88
	Say				**3774.00**

4.7.8 300 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3740	Hot Dipped G.I. Perforated cable tray Bend 300 X 62.5 X 2 mm	each	1.00	1542.97	1542.97
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	40.42	40.42
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	43.47	16.96
2855	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1664.66**
	Cartage @ 1 %				16.65
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1821.00**
	Add 12% GST (MF= 0.1405)				**255.85**
	TOTAL				**2076.85**
	Add 15 % Over Head & Contractor Profit				**311.53**
	TOTAL				**2388.38**
	Rate for 1 No				2388.38
	Say				**2388.00**

4.7.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3741	Hot Dipped G.I. Perforated cable tray Bend 375 X 62.5 X 2 mm	each	1.00	1816.02	1816.02
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 1.11 kg/m = 0.9 kg	kg	0.90	43.47	39.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60

3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1959.88**
	Cartage @ 1 %				19.60
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2119.18**
	Add 12% GST (MF= 0.1405)				**297.74**
	TOTAL				**2416.92**
	Add 15 % Over Head & Contractor Profit				**362.54**
	TOTAL				**2779.46**
	Rate for 1 No				2779.46
	Say				**2779.00**

4.7.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3742	Hot Dipped G.I. Perforated cable tray Bend 450 X 62.5 X 2 mm	each	1.00	2087.54	2087.54
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.5m @ 2.09 kg/m = 1.05 kg	kg	1.05	43.47	45.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**2230.73**
	Cartage @ 1 %				22.31
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2476.55**
	Add 12% GST (MF= 0.1405)				**347.96**
	TOTAL				**2824.51**
	Add 15 % Over Head & Contractor Profit				**423.68**
	TOTAL				**3248.19**
	Rate for 1 No				3248.19
	Say				**3248.00**

4.7.11 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3743	Hot Dipped G.I. Perforated cable tray Bend 600 X 62.5 X 2 mm	each	1.00	2421.61	2421.61
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	40.42	40.42
3804	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**2596.15**
	Cartage @ 1 %				25.96
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2845.63**
	Add 12% GST (MF= 0.1405)				**399.81**
	TOTAL				**3245.44**
	Add 15 % Over Head & Contractor Profit				**486.82**
	TOTAL				**3732.26**
	Rate for 1 No				3732.26
	Say				**3732.00**

4.7.12 750 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3744	Hot Dipped G.I. Perforated cable tray Bend 750 X 62.5 X 2 mm	each	1.00	3243.05	3243.05
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.8m @ 2.09 kg/m = 1.67 kg	kg	1.67	43.47	72.60
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60

3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3431.07**
	Cartage @ 1 %				34.31
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3688.90**
	Add 12% GST (MF= 0.1405)				**518.29**
	TOTAL				**4207.19**
	Add 15 % Over Head & Contractor Profit				**631.08**
	TOTAL				**4838.27**
	Rate for 1 No				4838.27
	Say				**4838.00**

4.7.13 900 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3745	Hot Dipped G.I. Perforated cable tray Bend 900 X 62.5 X 2 mm	each	1.00	3793.73	3793.73
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	40.42	40.42
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	43.47	106.95
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**4016.09**
	Cartage @ 1 %				40.16
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4279.77**
	Add 12% GST (MF= 0.1405)				**601.31**
	TOTAL				**4881.08**
	Add 15 % Over Head & Contractor Profit				**732.16**
	TOTAL				**5613.24**
	Rate for 1 No				5613.24
	Say				**5613.00**

4.7.14 600 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3746	Hot Dipped G.I. Perforated cable tray Bend 600 X 75 X 2 mm	each	1.00	2722.88	2722.88
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**2897.42**
	Cartage @ 1 %				28.97
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3149.91**
	Add 12% GST (MF= 0.1405)				**442.56**
	TOTAL				**3592.48**
	Add 15 % Over Head & Contractor Profit				**538.87**
	TOTAL				**4131.35**
	Rate for 1 No				4131.35
	Say				**4131.00**

4.7.15 750 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3747	Hot Dipped G.I. Perforated cable tray Bend 750 X 75 X 2 mm	each	1.00	3243.05	3267.46
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.8m @ 2.09 kg/m = 1.67 kg	kg	1.67	43.47	72.60
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60

3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3455.47**
	Cartage @ 1 %				34.55
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3713.55**
	Add 12% GST (MF= 0.1405)				**521.75**
	TOTAL				**4235.30**
	Add 15 % Over Head & Contractor Profit				**635.30**
	TOTAL				**4870.60**
	Rate for 1 No				4870.60
	Say				**4871.00**

4.7.16 900 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3748	Hot Dipped G.I. Perforated cable tray Bend 900 X 75 X 2 mm	each	1.00	3812.03	3812.03
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	40.42	40.42
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	43.47	106.95
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	TOTAL				**4034.39**
	Cartage @ 1 %				40.34
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4298.26**
	Add 12% GST (MF= 0.1405)				**603.91**
	TOTAL				**4902.16**
	Add 15 % Over Head & Contractor Profit				**735.32**
	TOTAL				**5637.49**
	Rate for 1 No				5637.49
	Say				**5637.00**

4.8 Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.

4.8.1 100 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3765	Hot Dipped G.I. Perforated cable tray TEE 100 X 50 X 1.6 mm	each	1.00	766.53	766.53
3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	32.03	32.03
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.15m = 0.15m @ 1.11 kg/m = 0.17 kg	kg	0.17	43.47	7.39
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**863.06**
	Cartage @ 1 %				8.63
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1011.39**
	Add 12% GST (MF= 0.1405)				**142.10**
	TOTAL				**1153.49**
	Add 15 % Over Head & Contractor Profit				**173.02**
	TOTAL				**1326.52**
	Rate for 1 No				1326.52
	Say				**1327.00**

4.8.2 150 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3766	Hot Dipped G.I. Perforated cable tray TEE 150 X 50 X 1.6 mm	each	1.00	800.85	800.85
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	38.14	38.14
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.2m = 0.20m @ 1.11 kg/m = 0.22 kg	kg	0.22	43.47	9.56

2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**905.66**
	Cartage @ 1 %				9.06
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1054.42**
	Add 12% GST (MF= 0.1405)				**148.15**
	TOTAL				**1202.56**
	Add 15 % Over Head & Contractor Profit				**180.38**
	TOTAL				**1382.95**
	Rate for 1 No				1382.95
	Say				**1383.00**

4.8.3 225 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3767	Hot Dipped G.I. Perforated cable tray TEE 225 X 50 X 1.6 mm	each	1.00	1237.12	1237.12
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	40.42	40.42
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.25m = 0.25m @ 1.11 kg/m = 0.28 kg	kg	0.28	43.47	12.17
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1346.83**
	Cartage @ 1 %				13.47
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1500.00**
	Add 12% GST (MF= 0.1405)				**210.75**
	TOTAL				**1710.74**
	Add 15 % Over Head & Contractor Profit				**256.61**
	TOTAL				**1967.36**
	Rate for 1 No				1967.36
	Say				**1967.00**

4.8.4 300 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3768	Hot Dipped G.I. Perforated cable tray TEE 300 X 50 X 1.6 mm	each	1.00	1374.41	1374.41
3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	40.42	40.42
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	43.47	16.96
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1488.90**
	Cartage @ 1 %				14.89
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1643.49**
	Add 12% GST (MF= 0.1405)				**230.91**
	TOTAL				**1874.40**
	Add 15 % Over Head & Contractor Profit				**281.16**
	TOTAL				**2155.56**
	Rate for 1 No				2155.56
	Say				**2156.00**

4.8.5 375 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3769	Hot Dipped G.I. Perforated cable tray TEE 375 X 50 X 2 mm	each	1.00	1870.93	1870.93
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	43.47	39.13

2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**2007.59**
	Cartage @ 1 %				20.08
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2167.37**
	Add 12% GST (MF= 0.1405)				**304.52**
	TOTAL				**2471.89**
	Add 15 % Over Head & Contractor Profit				**370.78**
	TOTAL				**2842.67**
	Rate for 1 No				2842.67
	Say				**2843.00**

4.8.6 450 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3770	Hot Dipped G.I. Perforated cable tray TEE 450 X 50 X 2 mm	each	1.00	2079.15	2079.15
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	40.42	40.42
3804	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	43.47	45.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**2233.01**
	Cartage @ 1 %				22.33
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2395.04**
	Add 12% GST (MF= 0.1405)				**336.50**
	TOTAL				**2731.55**
	Add 15 % Over Head & Contractor Profit				**409.73**
	TOTAL				**3141.28**
	Rate for 1 No				3141.28
	Say				**3141.00**

4.8.7 600 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3771	Hot Dipped G.I. Perforated cable tray TEE 600 X 50 X 2 mm	each	1.00	3043.22	3043.22
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3805	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3217.76**
	Cartage @ 1 %				32.18
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**3389.64**
	Add 12% GST (MF= 0.1405)				**476.24**
	TOTAL				**3865.88**
	Add 15 % Over Head & Contractor Profit				**579.88**
	TOTAL				**4445.76**
	Rate for 1 No				4445.76
	Say				**4446.00**

4.8.8 300 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3772	Hot Dipped G.I. Perforated cable tray TEE 300 X 62.5 X 2 mm	each	1.00	1851.86	1851.86
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	40.42	40.42
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	43.47	16.96

2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1973.56**
	Cartage @ 1 %				19.74
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2132.99**
	Add 12% GST (MF= 0.1405)				**299.69**
	TOTAL				**2432.68**
	Add 15 % Over Head & Contractor Profit				**364.90**
	TOTAL				**2797.58**
	Rate for 1 No				2797.58
	Say				**2798.00**

4.8.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3773	Hot Dipped G.I. Perforated cable tray TEE 375 X 62.5 X 2 mm	each	1.00	2220.25	2220.25
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	43.47	39.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**2364.12**
	Cartage @ 1 %				23.64
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2527.46**
	Add 12% GST (MF= 0.1405)				**355.11**
	TOTAL				**2882.57**
	Add 15 % Over Head & Contractor Profit				**432.38**
	TOTAL				**3314.95**
	Rate for 1 No				3314.95
	Say				**3315.00**

4.8.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3774	Hot Dipped G.I. Perforated cable tray TEE 450 X 62.5 X 2 mm	each	1.00	2504.75	2504.75
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	43.47	45.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**2647.93**
	Cartage @ 1 %				26.48
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2897.93**
	Add 12% GST (MF= 0.1405)				**407.16**
	TOTAL				**3305.09**
	Add 15 % Over Head & Contractor Profit				**495.76**
	TOTAL				**3800.85**
	Rate for 1 No				3800.85
	Say				**3801.00**

4.8.11 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3775	Hot Dipped G.I. Perforated cable tray TEE 600 X 62.5 X 2 mm	each	1.00	3229.32	3229.32
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13

2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3403.86**
	Cartage @ 1 %				34.04
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3661.42**
	Add 12% GST (MF= 0.1405)				**514.43**
	TOTAL				**4175.85**
	Add 15 % Over Head & Contractor Profit				**626.38**
	TOTAL				**4802.23**
	Rate for 1 No				4802.23
	Say				**4802.00**

4.8.12 750 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3776	Hot Dipped G.I. Perforated cable tray TEE 750 X 62.5 X 2 mm	each	1.00	3887.54	3887.54
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	43.47	72.60
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**4075.56**
	Cartage @ 1 %				40.76
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4339.83**
	Add 12% GST (MF= 0.1405)				**609.75**
	TOTAL				**4949.58**
	Add 15 % Over Head & Contractor Profit				**742.44**
	TOTAL				**5692.02**
	Rate for 1 No				5692.02
	Say				**5692.00**

4.8.13 900 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3777	Hot Dipped G.I. Perforated cable tray TEE 900 X 62.5 X 2 mm	each	1.00	4554.15	4554.15
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	40.42	40.42
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	43.47	106.95
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**4776.51**
	Cartage @ 1 %				47.77
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**5047.80**
	Add 12% GST (MF= 0.1405)				**709.22**
	TOTAL				**5757.01**
	Add 15 % Over Head & Contractor Profit				**863.55**
	TOTAL				**6620.57**
	Rate for 1 No				6620.57
	Say				**6621.00**

4.8.14 600 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3778	Hot Dipped G.I. Perforated cable tray TEE 600 X 75 X 2 mm	each	1.00	3267.46	3267.46
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13

2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3442.00**
	Cartage @ 1 %				34.42
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3699.94**
	Add 12% GST (MF= 0.1405)				**519.84**
	TOTAL				**4219.78**
	Add 15 % Over Head & Contractor Profit				**632.97**
	TOTAL				**4852.74**
	Rate for 1 No				4852.74
	Say				**4853.00**

4.8.15 750 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3779	Hot Dipped G.I. Perforated cable tray TEE 750 X 75 X 2 mm	each	1.00	3921.10	3921.10
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	43.47	72.60
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**4109.12**
	Cartage @ 1 %				41.09
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4373.73**
	Add 12% GST (MF= 0.1405)				**614.51**
	TOTAL				**4988.24**
	Add 15 % Over Head & Contractor Profit				**748.24**
	TOTAL				**5736.47**
	Rate for 1 No				5736.47
	Say				**5736.00**

4.8.16 900 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3780	Hot Dipped G.I. Perforated cable tray TEE 900 X 75 X 2 mm	each	1.00	4574.75	4574.75
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	40.42	40.42
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	43.47	106.95
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**4797.11**
	Cartage @ 1 %				47.97
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**5068.60**
	Add 12% GST (MF= 0.1405)				**712.14**
	TOTAL				**5780.74**
	Add 15 % Over Head & Contractor Profit				**867.11**
	TOTAL				**6647.85**
	Rate for 1 No				6647.85
	Say				**6648.00**

4.9 Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Cross member" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.

4.9.1 100 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3781	Hot Dipped G.I. Perforated cable tray Cross member 100 X 50 X 1.6 mm	each	1.00	766.53	766.53
3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	32.03	32.03
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.15m = 0.15m @ 1.11 kg/m = 0.17 kg	kg	0.17	43.47	7.39

2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**863.06**
	Cartage @ 1 %				8.63
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1011.39**
	Add 12% GST (MF= 0.1405)				**142.10**
	TOTAL				**1153.49**
	Add 15 % Over Head & Contractor Profit				**173.02**
	TOTAL				**1326.52**
	Rate for 1 No				1326.52
	Say				**1327.00**

4.9.2 150 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3782	Hot Dipped G.I. Perforated cable tray Cross member 150 X 50 X 1.6 mm	each	1.00	800.85	800.85
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	38.14	38.14
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.2m = 0.20m @ 1.11 kg/m = 0.22 kg	kg	0.22	43.47	9.56
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**905.66**
	Cartage @ 1 %				9.06
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1054.42**
	Add 12% GST (MF= 0.1405)				**148.15**
	TOTAL				**1202.56**
	Add 15 % Over Head & Contractor Profit				**180.38**
	TOTAL				**1382.95**
	Rate for 1 No				1382.95
	Say				**1383.00**

4.9.3 225 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3783	Hot Dipped G.I. Perforated cable tray Cross member 225 X 50 X 1.6 mm	each	1.00	1251.61	1251.61
3720	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	40.42	40.42
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.25m = 0.25m @ 1.11 kg/m = 0.28 kg	kg	0.28	43.47	12.17
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1361.32**
	Cartage @ 1 %				13.61
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1514.63**
	Add 12% GST (MF= 0.1405)				**212.8**
	TOTAL				**1727.44**
	Add 15 % Over Head & Contractor Profit				**259.12**
	TOTAL				**1986.55**
	Rate for 1 No				1986.55
	Say				**1987.00**

4.9.4 300 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3784	Hot Dipped G.I. Perforated cable tray Cross member 300 X 50 X 1.6 mm	each	1.00	1533.05	1533.05
3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	40.42	40.42
3805	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	43.47	16.96

2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1647.54**
	Cartage @ 1 %				16.48
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1803.72**
	Add 12% GST (MF= 0.1405)				**253.42**
	TOTAL				**2057.14**
	Add 15 % Over Head & Contractor Profit				**308.57**
	TOTAL				**2365.71**
	Rate for 1 No				2365.71
	Say				**2366.00**

4.9.5 375 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3785	Hot Dipped G.I. Perforated cable tray Cross member 375 X 50 X 2 mm	each	1.00	2071.53	2071.53
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	43.47	39.13
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**2208.19**
	Cartage @ 1 %				22.08
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2369.97**
	Add 12% GST (MF= 0.1405)				**332.98**
	TOTAL				**2702.95**
	Add 15 % Over Head & Contractor Profit				**405.44**
	TOTAL				**3108.39**
	Rate for 1 No				3108.39
	Say				**3108.00**

4.9.6 450 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3786	Hot Dipped G.I. Perforated cable tray Cross member 450 X 50 X 2 mm	each	1.00	2401.78	2401.78
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	43.47	45.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**2555.64**
	Cartage @ 1 %				25.56
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2720.90**
	Add 12% GST (MF= 0.1405)				**382.29**
	TOTAL				**3103.18**
	Add 15 % Over Head & Contractor Profit				**465.48**
	TOTAL				**3568.66**
	Rate for 1 No				3568.66
	Say				**3569.00**

4.9.7 600 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3787	Hot Dipped G.I. Perforated cable tray Cross member 600 X 50 X 2 mm	each	1.00	3053.90	3053.90
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.04

2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3806	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3228.35**
	Cartage @ 1 %				32.28
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**3400.33**
	Add 12% GST (MF= 0.1405)				**477.75**
	TOTAL				**3878.08**
	Add 15 % Over Head & Contractor Profit				**581.71**
	TOTAL				**4459.79**
	Rate for 1 No				4459.79
	Say				**4460.00**

4.9.8 300 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3788	Hot Dipped G.I. Perforated cable tray Cross member 300 X 62.5 X 2 mm	each	1.00	1857.20	1857.20
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	40.42	40.42
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	43.47	16.96
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1978.89**
	Cartage @ 1 %				19.79
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2138.38**
	Add 12% GST (MF= 0.1405)				**300.44**
	TOTAL				**2438.83**
	Add 15 % Over Head & Contractor Profit				**365.82**
	TOTAL				**2804.65**
	Rate for 1 No				2804.65
	Say				**2805.00**

4.9.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3789	Hot Dipped G.I. Perforated cable tray Cross member 375 X 62.5 X 2 mm	each	1.00	2179.07	2179.07
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	43.47	39.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**2322.93**
	Cartage @ 1 %				23.23
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2485.86**
	Add 12% GST (MF= 0.1405)				**349.26**
	TOTAL				**2835.12**
	Add 15 % Over Head & Contractor Profit				**425.27**
	TOTAL				**3260.39**
	Rate for 1 No				3260.39
	Say				**3260.00**

4.9.10 450 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3790	Hot Dipped G.I. Perforated cable tray Cross member 450 X 62.5 X 2 mm	each	1.00	2509.32	2509.32
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	43.47	45.65

2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**2652.51**
	Cartage @ 1 %				26.53
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**2902.55**
	Add 12% GST (MF= 0.1405)				**407.81**
	TOTAL				**3310.36**
	Add 15 % Over Head & Contractor Profit				**496.55**
	TOTAL				**3806.91**
	Rate for 1 No				3806.91
	Say				**3807.00**

4.9.11 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3781	Hot Dipped G.I. Perforated cable tray Cross member 600 X 62.5 X 2 mm	each	1.00	3168.31	3168.31
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	40.42	40.42
3804	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3342.84**
	Cartage @ 1 %				33.43
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3599.79**
	Add 12% GST (MF= 0.1405)				**505.77**
	TOTAL				**4105.56**
	Add 15 % Over Head & Contractor Profit				**615.83**
	TOTAL				**4721.40**
	Rate for 1 No				4721.40
	Say				**4721.00**

4.9.12 750mm width X 62.5 mm depth X 2 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3792	Hot Dipped G.I. Perforated cable tray Cross member 750 X 62.5 X 2 mm	each	1.00	3887.54	3887.54
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvanised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	43.47	72.60
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**4075.56**
	Cartage @ 1 %				40.76
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4339.83**
	Add 12% GST (MF= 0.1405)				**609.75**
	TOTAL				**4949.58**
	Add 15 % Over Head & Contractor Profit				**742.44**
	TOTAL				**5692.02**
	Rate for 1 No				5692.02
	Say				**5692.00**

4.9.13 900 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3793	Hot Dipped G.I. Perforated cable tray Cross member 900 X 62.5 X 2 mm	each	1.00	4554.15	4554.15
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	40.42	40.42
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	43.47	106.95

2856	Steel fastener 8 mm X 75 mm	each	2.00	7.20	14.40
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**4776.51**
	Cartage @ 1 %				47.77
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**5047.80**
	Add 12% GST (MF= 0.1405)				**709.22**
	TOTAL				**5757.01**
	Add 15 % Over Head & Contractor Profit				**863.55**
	TOTAL				**6620.57**
	Rate for 1 No				6620.57
	Say				**6621.00**

4.9.14 600 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3784	Hot Dipped G.I. Perforated cable tray Cross member 600 X 75 X 2 mm	each	1.00	3269.75	3269.75
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3444.28**
	Cartage @ 1 %				34.44
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3702.25**
	Add 12% GST (MF= 0.1405)				**520.17**
	TOTAL				**4222.41**
	Add 15 % Over Head & Contractor Profit				**633.36**
	TOTAL				**4855.78**
	Rate for 1 No				4855.78
	Say				**4856.00**

4.9.15 750 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3795	Hot Dipped G.I. Perforated cable tray Cross member 750 X 75 X 2 mm	each	1.00	2797.63	2797.63
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	43.47	72.60
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**2985.64**
	Cartage @ 1 %				29.86
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3239.02**
	Add 12% GST (MF= 0.1405)				**455.08**
	TOTAL				**3694.10**
	Add 15 % Over Head & Contractor Profit				**554.12**
	TOTAL				**4248.22**
	Rate for 1 No				4248.22
	Say				**4248.00**

4.9.16 900 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3796	Hot Dipped G.I. Perforated cable tray Cross member 900 X 75 X 2 mm	each	1.00	3262.88	3262.88
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	40.42	40.42
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	43.47	106.95
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3485.24**

	Cartage @ 1 %				34.85
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3743.61**
	Add 12% GST (MF= 0.1405)				**525.98**
	TOTAL				**4269.59**
	Add 15 % Over Head & Contractor Profit				**640.44**
	TOTAL				**4910.03**
	Rate for 1 No				4910.03
	Say				**4910.00**

4.10 Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Reducer" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.

4.10.1 100 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3749	Hot Dipped G.I. Perforated cable tray Reducer 100 X 50 X 1.6 mm	each	1.00	1014.41	1014.41
3727	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	32.03	32.03
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.15m = 0.15m @ 1.11 kg/m = 0.17 kg	kg	0.17	43.47	7.39
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1110.94**
	Cartage @ 1 %				11.11
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1261.75**
	Add 12% GST (MF= 0.1405)				**177.28**
	TOTAL				**1439.03**
	Add 15 % Over Head & Contractor Profit				**215.85**
	TOTAL				**1654.88**
	Rate for 1 No				1654.88
	Say				**1655.00**

4.10.2 150 mm width X 50 mm depth X 1.6 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3750	Hot Dipped G.I. Perforated cable tray Reducer 150 X 50 X 1.6 mm	each	1.00	1207.37	1207.37
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	38.14	38.14
3805	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.2m = 0.20m @ 1.11 kg/m = 0.22 kg	kg	0.22	43.47	9.56
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1312.18**
	Cartage @ 1 %				13.12
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1465.01**
	Add 12% GST (MF= 0.1405)				**205.83**
	TOTAL				**1670.84**
	Add 15 % Over Head & Contractor Profit				**250.63**
	TOTAL				**1921.47**
	Rate for 1 No				1921.47
	Say				**1921.00**

4.10.3 900 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3751	Hot Dipped G.I. Perforated cable tray Reducer 225 X 50 X 1.6 mm	each	1.00	1572.71	1572.71
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	40.42	40.42
3806	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.25m = 0.25m @ 1.11 kg/m = 0.28 kg	kg	0.28	43.47	12.17
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1689.62**

	Cartage @ 1 %				16.90
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**1846.22**
	Add 12% GST (MF= 0.1405)				**259.39**
	TOTAL				**2105.61**
	Add 15 % Over Head & Contractor Profit				**315.84**
	TOTAL				**2421.45**
	Rate for 1 No				2421.45
	Say				**2421.00**

4.10.4 300 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3752	Hot Dipped G.I. Perforated cable tray Reducer 300 X 50 X 1.6 mm	each	1.00	1870.93	1870.93
3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	40.42	40.42
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	43.47	16.96
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**1992.62**
	Cartage @ 1 %				19.93
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2152.25**
	Add 12% GST (MF= 0.1405)				**302.39**
	TOTAL				**2454.64**
	Add 15 % Over Head & Contractor Profit				**368.20**
	TOTAL				**2822.84**
	Rate for 1 No				2822.84
	Say				**2823.00**

4.10.5 375 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3753	Hot Dipped G.I. Perforated cable tray Reducer 375 X 50 X 2 mm	each	1.00	2305.68	2305.68
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	43.47	39.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**2449.54**
	Cartage @ 1 %				24.50
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2613.74**
	Add 12% GST (MF= 0.1405)				**367.23**
	TOTAL				**2980.97**
	Add 15 % Over Head & Contractor Profit				**447.14**
	TOTAL				**3428.11**
	Rate for 1 No				3428.11
	Say				**3428.00**

4.10.6 450 mm width X 50 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3754	Hot Dipped G.I. Perforated cable tray Reducer 450 X 50 X 2 mm	each	1.00	2509.32	2509.32
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	43.47	45.65
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**2670.38**

	Cartage @ 1 %				26.70
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2836.79**
	Add 12% GST (MF= 0.1405)				**398.57**
	TOTAL				**3235.36**
	Add 15 % Over Head & Contractor Profit				**485.30**
	TOTAL				**3720.66**
	Rate for 1 No				3720.66
	Say				**3721.00**

4.10.7 600 mm width X 50 mm depth X 2.0 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3755	Hot Dipped G.I. Perforated cable tray Reducer 600 X 50 X 2 mm	each	1.00	3571.02	3571.02
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3745.56**
	Cartage @ 1 %				37.46
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**3922.71**
	Add 12% GST (MF= 0.1405)				**551.14**
	TOTAL				**4473.85**
	Add 15 % Over Head & Contractor Profit				**671.08**
	TOTAL				**5144.93**
	Rate for 1 No				5144.93
	Say				**5145.00**

4.10.8 300 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3756	Hot Dipped G.I. Perforated cable tray Reducer 300 X 62.5 X 2 mm	each	1.00	2298.81	2298.81
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel = 1x0.35m = 0.35m @ 1.11 kg/m = 0.39 kg	kg	0.39	43.47	16.96
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**2420.50**
	Cartage @ 1 %				24.21
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**2584.41**
	Add 12% GST (MF= 0.1405)				**363.11**
	TOTAL				**2947.52**
	Add 15 % Over Head & Contractor Profit				**442.13**
	TOTAL				**3389.65**
	Rate for 1 No				3389.65
	Say				**3390.00**

4.10.9 375 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3757	Hot Dipped G.I. Perforated cable tray Reducer 375 X 62.5 X 2 mm	each	1.00	2706.10	2706.10
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.425m = 0.43m @ 2.09 kg/m = 0.9 kg	kg	0.90	43.47	39.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**2849.96**

	Cartage @ 1 %				28.50
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1010	Mason, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**3018.16**
	Add 12% GST (MF= 0.1405)				**424.05**
	TOTAL				**3442.22**
	Add 15 % Over Head & Contractor Profit				**516.33**
	TOTAL				**3958.55**
	Rate for 1 No				3958.55
	Say				**3959.00**

4.10.10 450 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3758	Hot Dipped G.I. Perforated cable tray Reducer 450 X 62.5 X 2 mm	each	1.00	3199.58	3199.58
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm aGalvannised slotted/angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	kg	1.05	43.47	45.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	7.20	14.40
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	21.36	42.71
	Total cost of materials				**3342.76**
	Cartage @ 1 %				33.43
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**3599.71**
	Add 12% GST (MF= 0.1405)				**505.76**
	TOTAL				**4105.47**
	Add 15 % Over Head & Contractor Profit				**615.82**
	TOTAL				**4721.29**
	Rate for 1 No				4721.29
	Say				**4721.00**

4.10.11 600 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3759	Hot Dipped G.I. Perforated cable tray Reducer 600 X 62.5 X 2 mm	each	1.00	4101.10	4101.10
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3801	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**4275.64**
	Cartage @ 1 %				42.76
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4541.92**
	Add 12% GST (MF= 0.1405)				**638.14**
	TOTAL				**5180.06**
	Add 15 % Over Head & Contractor Profit				**777.01**
	TOTAL				**5957.06**
	Rate for 1 No				5957.06
	Say				**5957.00**

4.10.12 750 mm width X 62.5 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3760	Hot Dipped G.I. Perforated cable tray Reducer 750 X 62.5 X 2 mm	each	1.00	4425.25	4425.25
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	43.47	72.60
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 6 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**4613.27**

	Cartage @ 1 %				46.13
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4882.92**
	Add 12% GST (MF= 0.1405)				**686.05**
	TOTAL				**5568.97**
	Add 15 % Over Head & Contractor Profit				**835.35**
	TOTAL				**6404.32**
	Rate for 1 No				6404.32
	Say				**6404.00**

4.10.13 900 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3761	Hot Dipped G.I. Perforated cable tray Reducer 900 X 62.5 X 2 mm	each	1.00	5162.03	5162.03
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	40.42	40.42
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	43.47	106.95
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**5384.39**
	Cartage @ 1 %				53.84
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**5661.76**
	Add 12% GST (MF= 0.1405)				**795.48**
	TOTAL				**6457.24**
	Add 15 % Over Head & Contractor Profit				**968.59**
	TOTAL				**7425.82**
	Rate for 1 No				7425.82
	Say				**7426.00**

4.10.14 600 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3762	Hot Dipped G.I. Perforated cable tray Reducer 600 X 75 X 2 mm	each	1.00	3577.88	3577.88
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.65m = 0.65m @ 2.09 kg/m = 1.36 kg	kg	1.36	43.47	59.13
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**3752.42**
	Cartage @ 1 %				37.52
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4013.46**
	Add 12% GST (MF= 0.1405)				**563.89**
	TOTAL				**4577.36**
	Add 15 % Over Head & Contractor Profit				**686.60**
	TOTAL				**5263.96**
	Rate for 1 No				5263.96
	Say				**5264.00**

4.10.15 750 mm width X 75 mm depth X 2.0 mm thickness
Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3763	Hot Dipped G.I. Perforated cable tray Reducerd 750 X 75 X 2 mm	each	1.00	4485.51	4485.51
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	40.42	40.42
3805	35 mm X 35 mm X 4 mm Galvannised slotted/angle iron/ channel = 1x0.8m = 0.80m @ 2.09 kg/m = 1.67 kg	kg	1.67	43.47	72.60
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 6 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**4673.52**

	Cartage @ 1 %				46.74
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**4943.78**
	Add 12% GST (MF= 0.1405)				**694.60**
	TOTAL				**5638.38**
	Add 15 % Over Head & Contractor Profit				**845.76**
	TOTAL				**6484.14**
	Rate for 1 No				6484.14
	Say				**6484.00**

4.10.16 900 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 1 No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
3764	Hot Dipped G.I. Perforated cable tray Reducer 900 X 75 X 2 mm	each	1.00	5224.58	5224.58
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	40.42	40.42
3806	35 mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel = 1x0.95m = 0.95m @ 2.59 kg/m = 2.46 kg	kg	2.46	43.47	106.95
2856	Steel fastener 8 mm X 75 mm	each	2.00	10.80	21.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	26.69	53.39
	Total cost of materials				**5446.94**
	Cartage @ 1 %				54.47
	LABOUR				
1005	Fitter, Grade 2	day	0.08	734.00	58.72
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**5724.93**
	Add 12% GST (MF= 0.1405)				**804.35**
	TOTAL				**6529.28**
	Add 15 % Over Head & Contractor Profit				**979.39**
	TOTAL				**7508.67**
	Rate for 1 No				7508.67
	Say				**7509.00**

CHAPTER 5 – E A R T H I N G

5.1 Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required.

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2826	40 mm dia. G.I. pipe (medium class) = 4.50 + 0.23 (Wastage @ 5%) = 4.73m	meter	4.73	383.40	1813.48
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	315.00	315.00
2836	40 mm to 20 mm reducer	each	1.00	36.00	36.00
2918	Funnel	each	1.00	22.50	22.50
2919	G.I. nuts and through bolts with washer	each	1.00	31.50	31.50
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	5.40	270.00
2948	Cement	tonne	0.01	7200.00	72.00
2946	Fine sand	cum	0.030	900.00	27.00
	Total cost of materials				**2587.48**
	Cartage @ 1 % of A1				25.87
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
1010	Mason, Grade 2	day	0.20	734.00	146.80
1012	Beldar/ coolie	day	0.45	663.00	298.35
1083	Drilling of 46 Nos 12 mm dia holes on G.I. pipe	L.S.	1.00	300.00	300.00
	TOTAL				**4093.00**
	Add 12% GST (MF= 0.1405)				**575.07**
	TOTAL				**4668.07**
	OVERHEADS & PROFIT @ 15 %				**700.21**
	TOTAL				5368.28
	Rate per Set				5368.28
	Say				**5368.00**

5.2 Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required.

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2826	40 mm dia. G.I. pipe (medium class) = 4.50 + 0.23 (Wastage @ 5%) = 4.73m	meter	4.73	383.40	1813.48
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	315.00	315.00
2836	40 mm to 20 mm reducer	each	1.00	36.00	36.00
2918	Funnel	each	1.00	22.50	22.50
2919	G.I. nuts and through bolts with washer	each	1.00	31.50	31.50
2941	Charcoal	kg	64.00	9.00	576.00
2943	Salt	kg	5.00	10.80	54.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	5.40	270.00
2948	Cement	tonne	0.01	7200.00	72.00
2946	Fine sand	cum	0.030	900.00	27.00
	Total cost of materials				**3217.48**
	Cartage @ 1 % of A1				32.17
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
1010	Mason, Grade 2	day	0.20	734.00	146.80
1012	Beldar/ coolie	day	1.20	663.00	795.60
1083	Drilling of 46 Nos 12 mm dia holes on G.I. pipe	L.S.	1.00	300.00	300.00
	TOTAL				**5226.55**
	Add 12% GST (MF= 0.1405)				**734.33**
	TOTAL				**5960.89**
	OVERHEADS & PROFIT @ 15 %				**894.13**
	TOTAL				6855.02
	Rate per Set				6855.02
	Say				**6855.00**

5.3 Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. (but without charcoal/ coke and salt) as required.

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2915	600 mm X 600 mm X 6 mm thick G.I. plate	each	1.00	1620.00	1620.00
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	meter	2.84	190.20	540.17
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	315.00	315.00
2918	Funnel	each	1.00	22.50	22.50
2919	G.I. nuts and through bolts with washer	each	1.00	31.50	31.50
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	5.40	270.00

2948	Cement	tonne	0.01	7200.00	72.00
2946	Fine sand	cum	0.030	900.00	27.00
	Total cost of materials				**2898.17**
	Cartage @ 1 % of A1				28.98
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
1010	Mason, Grade 2	day	0.20	734.00	146.80
1012	Beldar/ coolie	day	1.45	663.00	961.35
	TOTAL				**4769.80**
	Add 12% GST (MF= 0.1405)				**670.16**
	TOTAL				**5439.96**
	OVERHEADS & PROFIT @ 15 %				**815.99**
	TOTAL				6255.95
	Rate per Set				6255.95
	Say				**6256.00**

5.4 Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2915	600 mm X 600 mm X 6 mm thick G.I. plate	each	1.00	1620.00	1620.00
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	meter	2.84	190.20	540.17
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	315.00	315.00
2918	Funnel	each	1.00	22.50	22.50
2919	G.I. nuts and through bolts with washer	each	1.00	31.50	31.50
2941	Charcoal	kg	96.00	9.00	864.00
2943	Salt	kg	5.00	10.80	54.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	5.40	270.00
2948	Cement	tonne	0.01	7200.00	72.00
2946	Fine sand	cum	0.030	900.00	27.00
	Total cost of materials				**3816.17**
	Cartage @ 1 % of A1				38.16
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
1010	Mason, Grade 2	day	0.20	734.00	146.80
1012	Beldar/ coolie	day	1.45	663.00	961.35
	TOTAL				**5696.98**

	Add 12% GST (MF= 0.1405)	**800.43**
	TOTAL	**6497.41**
	OVERHEADS & PROFIT @ 15 %	**974.61**
	TOTAL	7472.02
	Rate per Set	7472.02
	Say	**7472.00**

5.5 Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. (but without charcoal/ coke and salt) as required.

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2905	600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)	each	1.00	6426.00	6426.00
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	meter	2.84	190.20	540.17
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	315.00	315.00
2918	Funnel	each	1.00	22.50	22.50
2919	G.I. nuts and through bolts with washer	each	1.00	31.50	31.50
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	5.40	270.00
2948	Cement	tonne	0.01	7200.00	72.00
2946	Fine sand	cum	0.030	900.00	27.00
	Total cost of materials				7704.17
	Cartage @ 1 % of A1				77.04
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
1010	Mason, Grade 2	day	0.20	734.00	146.80
1012	Beldar/ coolie	day	1.45	663.00	961.35
	TOTAL				**9623.86**
	Add 12% GST (MF= 0.1405)				**1352.15**
	TOTAL				**10976.01**
	OVERHEADS & PROFIT @ 15 %				**1646.40**
	TOTAL				12622.41
	Rate per Set				12622.41
	Say				**12622.00**

5.6 Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.

Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2905	600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)	each	1.00	6426.00	6426.00
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	meter	2.84	190.20	540.17
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	315.00	315.00
2918	Funnel	each	1.00	22.50	22.50
2919	G.I. nuts and through bolts with washer	each	1.00	31.50	31.50
2941	Charcoal	kg	96.00	9.00	864.00
2943	Salt	kg	5.00	10.80	54.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	5.40	270.00
2948	Cement	tonne	0.01	7200.00	72.00
2946	Fine sand	cum	0.030	900.00	27.00
	Total cost of materials				**8622.17**
	Cartage @ 1 % of A1				86.22
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
1010	Mason, Grade 2	day	0.20	734.00	146.80
1012	Beldar/ coolie	day	1.45	663.00	961.35
	TOTAL				**10551.04**
	Add 12% GST (MF= 0.1405)				**1482.42**
	TOTAL				**12033.46**
	OVERHEADS & PROFIT @ 15 %				**1805.02**
	TOTAL				13838.48
	Rate per Set				13838.48
	Say				**13838.00**

5.7 Supplying and laying 6 SWG G.I. wire at 0.50 meter below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.

Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2916	6 SWG G.I. wire = 30x0.147 = 4.41 + 0.22 (Wastage @ 5%) = 4.63kg	kg	4.63	63.00	291.69
1085	Solder jointing	each	2.00	12.00	24.00
	Total cost of materials				**315.69**
	Cartage @ 1 % of A1				2.92
	LABOUR				
1001	Wireman	day	0.125	806.00	100.75
1007	Khallasi	day	0.125	663.00	82.88
1012	Beldar/ coolie	day	1.00	663.00	663.00
	TOTAL				**1165.24**
	Add 12% GST (MF= 0.1405)				**163.72**
	TOTAL				**1328.95**
	OVERHEADS & PROFIT @ 15 %				**199.34**
	Cost for 30 meter				1528.29
	Rate per meter				50.94
	Say				**51.00**

5.8 Supplying and laying 25 mm X 5 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)

Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2902	25 mm X 5 mm copper tape (1.15 kg/mtr) = 330x1.15 = 34.5 kg	kg	34.50	612.00	21114.00
1085	Solder jointing	each	5.00	12.00	60.00
	Total cost of materials				**21174.00**
	Cartage @ 1 % of A1				211.14
	LABOUR				
1001	Wireman	day	0.125	806.00	100.75
1007	Khallasi	day	0.125	663.00	82.88
1012	Beldar/ coolie	day	1.00	663.00	663.00
	TOTAL				**22231.77**
	Add 12% GST (MF= 0.1405)				**3123.56**
	TOTAL				**25355.33**
	OVERHEADS & PROFIT @ 15 %				**3803.30**
	Cost for 30 meter				29158.63
	Rate per meter				971.95
	Say				**972.00**

5.9 Supplying and laying 25 mm X 5 mm G.I strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)

Details of cost for 30 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2913	25 mm X 6 mm G.I. strip (1.2 kg/mtr) = 30x1.2 = 36.0 + 1.8 (Wastage @ 5%) = 37.8kg	kg	37.80	58.50	2211.30
1085	Solder jointing	each	5.00	12.00	60.00
	Total cost of materials				**2271.30**
	Cartage @ 1 % of A1				22.11
	LABOUR				
1001	Wireman	day	0.125	806.00	100.75
1007	Khallasi	day	0.125	663.00	82.88
1002	Cable jointer	day	1.00	806.00	806.00
	TOTAL				**3283.04**
	Add 12% GST (MF= 0.1405)				**461.27**
	TOTAL				**3744.31**
	Add 15 % Over Head & Contractor Profit				**561.65**
	Cost for 30 meter				4305.96
	Rate per meter				143.53
	Say				**144.00**

5.10 Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2902	25 mm X 5 mm copper tape (1.15 kg/mtr) = 10x1.15 = 11.5 kg	kg	11.50	612.00	7038.00
2826	40 mm dia. G.I. pipe (medium class) = 10.0 + 0.5 (Wastage @ 5%) = 10.5m	meter	10.50	383.40	4025.70
2838	40 mm dia. G.I. bend (medium class)	each	1.00	61.20	61.20
	Total cost of materials				**11124.90**
	Cartage @ 1 % of A1				111.25
	LABOUR				
1001	Wireman	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
1012	Beldar/ coolie	day	0.33	663.00	218.79
	TOTAL				**11822.19**

	Add 12% GST (MF= 0.1405)	**1661.02**
	TOTAL	**13483.21**
	Add 15 % Over Head & Contractor Profit	**2022.48**
	Cost for 10 meter	15505.69
	Rate per meter	1550.57
	Say	**1551.00**

5.11 Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2912	25 mm X 5 mm G.I. strip (1.0 kg/mtr) = 10x1.0 = 10.0 + 0.5 (Wastage @ 5%) = 10.5kg	kg	10.50	63.00	661.50
2826	40 mm dia. G.I. pipe (medium class) = 10.0 + 0.5 (Wastage @ 5%) = 10.5m	meter	10.50	383.40	4025.70
2838	40 mm dia. G.I. bend (medium class)	each	1.00	61.20	61.20
	Total cost of materials				**4748.40**
	Cartage @ 1 % of A1				47.48
	LABOUR				
1001	Wireman	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
1012	Beldar/ coolie	day	0.33	663.00	218.79
	TOTAL				**5381.92**
	Add 12% GST (MF= 0.1405)				**756.16**
	TOTAL				**6138.08**
	Add 15 % Over Head & Contractor Profit				**920.71**
	Cost for 10 meter				7058.80
	Rate per meter				705.88
	Say				**706.00**

5.12 Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2824	15 mm dia. G.I. pipe (medium class) = 10x1.0 = 10.0 + 0.5 (Wastage @ 5%) = 10.5kg	meter	10.50	151.20	1587.60
2916	6 SWG G.I. Wire	kg	1.79	63.00	112.77

	= 10x0.147 = 1.47 + 0.09 (Wastage @ 5%) = 1.79kg				
	Total cost of materials				**1700.37**
	Cartage @ 1 % of A1				17.00
	LABOUR				
1001	Wireman	day	0.170	806.00	137.02
1007	Khallasi	day	0.170	663.00	112.71
1012	Beldar/ coolie	day	0.33	663.00	218.79
	TOTAL				**2185.89**
	Add 12% GST (MF= 0.1405)				**307.12**
	TOTAL				**2493.01**
	Add 15 % Over Head & Contractor Profit				**373.95**
	Cost for 10 meter				2866.96
	Rate per meter				286.70
	Say				**287.00**

5.13 Providing and laying earth connection from earth electrode with 4.00 mm dia copper wire in 15 mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2824	15 mm dia. G.I. pipe (medium class) = 10x1.0 = 10.0 + 0.5 (Wastage @ 5%) = 10.5kg	meter	10.50	151.20	1587.60
2904	8 SWG copper wire (4.0 mm dia) = (0.117 kg/mtr) = 10x0.117 = 1.17 kg	kg	1.17	630.00	737.10
	Total cost of materials				**2324.70**
	Cartage @ 1 % of A1				23.25
	LABOUR				
1001	Wireman	day	0.170	806.00	137.02
1007	Khallasi	day	0.170	663.00	112.71
1012	Beldar/ coolie	day	0.33	663.00	218.79
	TOTAL				**2816.47**
	Add 12% GST (MF= 0.1405)				**395.71**
	TOTAL				**3212.18**
	Add 15 % Over Head & Contractor Profit				**481.83**
	Cost for 10 meter				3694.01
	Rate per meter				369.40
	Say				**369.00**

5.14 Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2902	25 mm X 5 mm copper tape (1.15 kg/mtr) = 10x1.15 = 11.5 kg	kg	11.50	612.00	7038.00
2906	Copper saddle	each	17.00	36.00	612.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	34.00	0.90	30.60
2857	PVC fastener 40mm long	each	17.00	0.90	15.30
	Total cost of materials				**7695.90**
	Cartage @ 1 % of A1				76.96
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1010	Mason, Grade 2	day	0.25	734.00	183.50
1007	Khallasi	day	0.75	663.00	497.25
	TOTAL				**8856.61**
	Add 12% GST (MF= 0.1405)				**1244.35**
	TOTAL				**10100.96**
	Add 15 % Over Head & Contractor Profit				**1515.14**
	Cost for 10 meter				11616.11
	Rate per meter				1161.61
	Say				**1162.00**

5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2912	25 mm X 5 mm G.I. strip (1.0 kg/mtr) = 10x1.0 = 10.0 + 0.5 (Wastage @ 5%) = 10.5kg	kg	10.50	63.00	661.50
2917	GI saddle 20mm x 3mm	each	17.00	3.60	61.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	34.00	0.90	30.60
2857	PVC fastener 40mm long	each	17.00	0.90	15.30
	Total cost of materials				**768.60**
	Cartage @ 1 % of A1				7.69
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1010	Mason, Grade 2	day	0.25	734.00	183.50
1007	Khallasi	day	0.75	663.00	497.25
	TOTAL				**1860.04**

	Add 12% GST (MF= 0.1405)	**261.34**
	TOTAL	**2121.37**
	Add 15 % Over Head & Contractor Profit	**318.21**
	Cost for 10 meter	**2439.58**
	Rate per meter	243.96
	Say	**244.00**

5.16 Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2916	6 SWG G.I. wire = 50x0.147 = 7.35 + 0.37 (Wastage @ 5%) = 7.72kg	kg	7.72	63.00	**486.36**
2921	G.I. Hooks made of 8 SWG GI wire/ GI clip	each	85.00	3.60	306.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
	Total cost of materials				868.86
	Cartage @ 1 % of A1				8.69
	LABOUR				
1001	Wireman	day	0.75	806.00	604.50
1010	Mason, Grade 2	day	0.50	734.00	367.00
1007	Khallasi	day	1.25	663.00	828.75
	TOTAL				**2677.80**
	Add 12% GST (MF= 0.1405)				**376.23**
	TOTAL				**3054.03**
	Add 15 % Over Head & Contractor Profit				**458.10**
	Cost for 50 meter				**3512.13**
	Rate per meter				70.24
	Say				**70.00**

5.17 Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2904	8 SWG copper wire (4.0 mm dia) (0.117 kg/mtr) = 50x0.117 = 5.85 kg	kg	5.85	630.00	3685.50
2921	G.I. Hooks made of 8 SWG GI wire/ GI clip	each	85.00	3.60	306.00
2857	PVC fastener 40mm long	each	85.00	0.90	76.50
	Total cost of materials				**4068.00**
	Cartage @ 1 % of A1				40.68
	LABOUR				

1001	Wireman	day	0.75	806.00	604.50
1010	Mason, Grade 2	day	0.50	734.00	367.00
1007	Khallasi	day	1.25	663.00	828.75
	TOTAL				**5908.93**
	Add 12% GST (MF= 0.1405)				**830.20**
	TOTAL				**6739.13**
	Add 15 % Over Head & Contractor Profit				**1010.87**
	Cost for 50 meter				7750.00
	Rate per meter				155.00
	Say				**155.00**

5.18 Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2916	6 SWG G.I. wire (0.147 kg/mtr) = 50x0.147 = 7.35 + 0.37 (Wastage @ 5%) = 7.72kg	kg	7.72	63.00	486.36
	Total cost of materials				**486.36**
	Cartage @ 1 % of A1				4.86
	LABOUR				
1001	Wireman	day	0.75	806.00	604.50
1007	Khallasi	day	0.75	663.00	497.25
	TOTAL				**1592.97**
	Add 12% GST (MF= 0.1405)				**223.81**
	TOTAL				**1816.79**
	Add 15 % Over Head & Contractor Profit				**272.52**
	Cost for 50 meter				**2089.30**
	Rate per meter				41.79
	Say				**42.00**

5.19 Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2904	8 SWG copper wire (4.0 mm dia) (0.117 kg/mtr) = 50x0.117 = 5.85 kg	kg	5.85	630.00	3685.50
	Total cost of materials				**3685.50**
	Cartage @ 1 % of A1				36.86
	LABOUR				

1001	Wireman	day	0.75	806.00	604.50
1007	Khallasi	day	0.75	663.00	497.25
	TOTAL				**4824.11**
	Add 12% GST (MF= 0.1405)				**677.79**
	TOTAL				**5501.89**
	Add 15 % Over Head & Contractor Profit				**825.28**
	Cost for 50 meter				6327.18
	Rate per meter				126.54
	Say				**127.00**

5.20 Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2907	50 mm X 5mm copper strip (2.30 kg/mtr) = 10x2.30 = 23.00 kg	kg	23.00	612.00	14076.00
2906	Copper saddle	each	17.00	36.00	612.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	34.00	0.90	30.60
2857	PVC fastener 40mm long	each	17.00	0.90	15.30
	Total cost of materials				**14733.90**
	Cartage @ 1 % of A1				147.34
	LABOUR				
1001	Wireman	day	0.60	806.00	483.60
1010	Mason, Grade 2	day	0.25	734.00	183.50
1007	Khallasi	day	0.85	663.00	563.55
	TOTAL				**16111.89**
	Add 12% GST (MF= 0.1405)				**2263.72**
	TOTAL				**18375.61**
	Add 15 % Over Head & Contractor Profit				**2756.34**
	Cost for 10 meter				21131.95
	Rate per Meter				2113.20
	Say				**2113.00**

CHAPTER 6 – LIGHTNING CONDUCTOR

6.1 DELETED

6.2 Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.

Details of cost for One each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2910	Lightning finial, 25 mm dia X 300 mm long, G.I.	each	1.00	135.00	135.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
	Total cost of materials				**163.80**
	Cartage @ 1 % of A1				1.64
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**394.72**
	Add 12% GST (MF= 0.1405)				**55.46**
	TOTAL				**450.18**
	Add 15 % Over Head & Contractor Profit				**67.53**
	TOTAL				**517.70**
	Rate for Each				517.70
	Say				**518.00**

6.3 Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
	Total cost of materials				**28.80**
	Cartage @ 1 % of A1				0.29
	LABOUR				
1001	Wireman	day	0.08	806.00	64.48
1010	Mason, Grade 2	day	0.08	734.00	58.72
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**258.37**
	Add 12% GST (MF= 0.1405)				**36.30**
	TOTAL				**294.67**

	Add 15 % Over Head & Contractor Profit	**44.20**
	TOTAL	**338.87**
	Rate for Each	338.87
	Say	**360.00**

6.4 Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.

Details of cost for One each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2860	6 mm dia rivet/ stud/ bolts and nuts	each	2.00	4.50	9.00
2940	Tin solder etc.	L.S.	1.00	7.20	7.20
	Total cost of materials				**16.20**
	Cartage @ 1 % of A1				0.16
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.05	663.00	33.15
	TOTAL				**86.21**
	Add 12% GST (MF= 0.1405)				**12.11**
	TOTAL				**98.32**
	Add 15 % Over Head & Contractor Profit				**14.75**
	TOTAL				**113.07**
	Rate for Each				113.07
	Say				**113.00**

6.5 DELETED

6.6 DELETED

6.7 Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2911	20 mm X 3 mm G.I. Tape (0.461 kg/mtr) =10+0.50(wastage@5%)=10.50m@0.461 kg/m=4.84 kg	kg	4.84	72.00	348.48
2917	GI saddle 20mm x 3mm	each	10.00	3.60	36.00
2857	PVC fastener 40mm long	each	10.00	0.90	9.00
2852	Iron screws, 35 mm X 6 mm	each	10.00	1.80	18.00
	Total cost of materials				**411.48**
	Cartage @ 1 % of A1				4.11
	LABOUR				

1001	Wireman	day	0.25	806.00	201.50
1010	Mason, Grade 2	day	0.130	734.00	95.42
1007	Khallasi	day	0.380	663.00	251.94
	TOTAL				**964.45**
	Add 12% GST (MF= 0.1405)				**135.51**
	TOTAL				**1099.96**
	Add 15 % Over Head & Contractor Profit				**164.99**
	Cost for 10 meter				1264.95
	Rate per meter				126.50
	Say				**126.00**

6.8 Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2911	20 mm X 3 mm G.I. Tape (0.461 kg/mtr) =10+0.50(wastage@5%)=10.50m@0.461 kg/m=4.84 kg	kg	4.84	72.00	348.48
2917	GI saddle 20mm x 3mm	each	11.00	3.60	39.60
2857	PVC fastener 40mm long	each	11.00	0.90	9.90
2852	Iron screws, 35 mm X 6 mm	each	11.00	1.80	19.80
	Total cost of materials				**417.78**
	Cartage @ 1 % of A1				4.18
	LABOUR				
1001	Wireman	day	0.50	806.00	403.00
1010	Mason, Grade 2	day	0.25	734.00	183.50
1007	Khallasi	day	0.75	663.00	497.25
	TOTAL				**1505.71**
	Add 12% GST (MF= 0.1405)				**211.55**
	TOTAL				**1717.26**
	Add 15 % Over Head & Contractor Profit				**257.59**
	Cost for 10 meter				1974.85
	Rate per meter				197.48
	Say				**197.00**

6.9 Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2917	GI saddle 20mm x 3mm	each	10.00	3.60	36.00
2857	PVC fastener 40mm long	each	10.00	0.90	9.00
2852	Iron screws, 35 mm X 6 mm	each	10.00	1.80	18.00
	Total cost of materials				63.00
	Cartage @ 1 % of A1				0.63
	LABOUR				
1001	Wireman	day	0.25	806.00	201.50
1010	Mason, Grade 2	day	0.130	734.00	95.42
1007	Khallasi	day	0.380	663.00	251.94
	TOTAL				612.49
	Add 12% GST (MF= 0.1405)				86.05
	TOTAL				698.54
	Add 15 % Over Head & Contractor Profit				104.78
	Cost for 10 meter				803.33
	Rate per meter				80.33
	Say				80.00

6.10 Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2917	**GI saddle 20mm x 3mm**	each	11.00	3.60	39.60
2857	**PVC fastener 40mm long**	each	11.00	0.90	9.90
2935	**Cement, paint, sand etc.**	L.S.	11.00	7.20	79.20
2852	**Iron screws, 35 mm X 6 mm**	each	11.00	1.80	19.80
	Total cost of materials				148.50
	Cartage @ 1 % of A1				1.49
	LABOUR				
1001	**Wireman**	day	0.50	806.00	403.00
1010	**Mason, Grade 2**	day	0.25	734.00	183.50
1007	**Khallasi**	day	0.75	663.00	497.25
	TOTAL				1233.74
	Add 12% GST (MF= 0.1405)				173.34
	TOTAL				1407.07
	Add 15 % Over Head & Contractor Profit				211.06
	Cost for 10 meter				1618.14
	Rate per meter				161.81
	Say				162.00

6.11 DELETED

6.12 Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2911	20 mm X 3 mm G.I. Tape (0.461 kg/mtr) = 0.125 + 0.006 (Wastage @ 5%) = 0.131m @ 0.461kg/m = 0.067 kg	kg	0.06	72.00	4.32
2866	10 mm X 25 mm long G.I. bolt with nut etc	each	4.00	10.80	43.20
	Total cost of materials				**47.52**
	Cartage @ 1 % of A1				0.48
	LABOUR				
1001	Wireman	day	0.030	806.00	24.18
1007	Khallasi	day	0.030	663.00	19.89
	TOTAL				**92.07**
	Add 12% GST (MF= 0.1405)				**12.94**
	TOTAL				**105.00**
	Add 15 % Over Head & Contractor Profit				**15.75**
	TOTAL				**120.75**
	Rate for Each				120.75
	Say				**121.00**

6.13 DELETED

6.14 Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2914	32 mm X 6 mm G.I. Tape (1.475 kg/mtr) = 10 + 0.50 (wastage @ 5%) = 10.50m @ 1.475 kg/m = 15.49 kg	kg	15.49	58.50	906.17
	Total cost of materials				**906.17**
	Cartage @ 1 % of A1				9.06
	LABOUR				
1001	Wireman	day	0.165	806.00	132.99
1007	Khallasi	day	0.165	663.00	109.40
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**1489.12**

	Add 12% GST (MF= 0.1405)	**209.22**
	TOTAL	**1698.34**
	Add 15 % Over Head & Contractor Profit	**254.75**
	Cost for 10 meter	**1953.09**
	Rate per meter	195.31
	Say	**195.00**

6.15 Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.

Details of cost for 10 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	0.165	806.00	132.99
1007	Khallasi	day	0.165	663.00	109.40
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**573.89**
	Add 12% GST (MF= 0.1405)				**80.63**
	TOTAL				**654.52**
	Add 15 % Over Head & Contractor Profit				**98.18**
	Cost for 10 meter				**752.70**
	Rate per meter				75.27
	Say				**75.00**

CHAPTER 7 – MV CABLE LAYING

7.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.

7.1.1 Upto 35 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	8.76	900.00	7884.00
	Total cost of materials				**12841.20**
	Cartage @ 1 % of A1				128.41
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**16427.61**
	Add 12% GST (MF= 0.1405)				**2308.08**
	TOTAL				**18735.69**
	OVERHEADS & PROFIT @ 15 %				**2810.35**
	TOTAL				21546.04
14.4	Excavation including refilling as required	cum	26.26	654.00	17174.04
	Cost for 100 Meters				38720.08
	Rate per Meter				387.20
	Say				**387.00**

7.1.2 Above 35 sq. mm and upto 95 sq. Mm

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	8.76	900.00	7884.00
	Total cost of materials				**12841.20**
	Cartage @ 1 % of A1				128.41
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	6.00	663.00	3978.00
	TOTAL				**17753.61**

	Add 12% GST (MF= 0.1405)				**2494.38**
	TOTAL				**20247.99**
	OVERHEADS & PROFIT @ 15 %				**3037.20**
	TOTAL				**23285.19**
14.4	Excavation including refilling as required	cum	26.26	654.00	17174.04
	Cost for 100 Meters				40459.23
	Rate per Meter				404.59
	Say				**405.00**

7.1.3 Above 95 sq. mm and upto 185 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	8.76	900.00	7884.00
	Total cost of materials				**12841.20**
	Cartage @ 1 % of A1				128.41
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	8.00	663.00	5304.00
	TOTAL				**19079.61**
	Add 12% GST (MF= 0.1405)				**2680.69**
	TOTAL				**21760.30**
	OVERHEADS & PROFIT @ 15 %				**3264.04**
	TOTAL				**25024.34**
14.4	Excavation including refilling as required	cum	26.26	654.00	17174.04
	Cost for 100 Meters				42198.38
	Rate per Meter				421.98
	Say				**422.00**

7.1.4 Above 185 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	8.76	900.00	7884.00
	Total cost of materials				**12841.20**
	Cartage @ 1 % of A1				128.41
	LABOUR				

1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	14.00	663.00	9282.00
	TOTAL				**23057.61**
	Add 12% GST (MF= 0.1405)				**3239.59**
	TOTAL				**26297.21**
	OVERHEADS & PROFIT @ 15 %				**3944.58**
	TOTAL				**30241.79**
14.4	Excavation including refilling as required	cum	26.26	654.00	17174.04
	Cost for 100 Meters				47415.83
	Rate per Meter				474.16
	Say				**474.00**

7.2 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.

7.2.1 Upto 35 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	5.00	900.00	4500.00
	Total cost of materials				9457.20
	Cartage @ 1 % of A1				94.57
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**13009.77**
	Add 12% GST (MF= 0.1405)				**1827.87**
	TOTAL				**14837.64**
	OVERHEADS & PROFIT @ 15 %				**2225.65**
	TOTAL				**17063.29**
14.4	Excavation including refilling as required	cum	15.00	654.00	9810.00
	Cost for 100 Meters				26873.29
	Rate per Meter				268.73
	Say				**269.00**

7.2.2 Above 35 sq. mm and upto 95 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	5.00	900.00	4500.00
	Total cost of materials				**9457.20**
	Cartage @ 1 % of A1				94.57
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	6.00	663.00	3978.00
	TOTAL				**14335.77**
	Add 12% GST (MF= 0.1405)				**2014.18**
	TOTAL				**16349.95**
	OVERHEADS & PROFIT @ 15 %				**2452.49**
	TOTAL				**18802.44**
14.4	Excavation including refilling as required	cum	15.00	654.00	9810.00
	Cost for 100 Meters				28612.44
	Rate per Meter				286.12
	Say				286.00

7.2.3 Above 95 sq. mm and upto 185 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	5.00	900.00	4500.00
	Total cost of materials				**9457.20**
	Cartage @ 1 % of A1				94.57
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	8.00	663.00	5304.00
	TOTAL				**15661.77**
	Add 12% GST (MF= 0.1405)				**2200.48**
	TOTAL				**17862.25**
	OVERHEADS & PROFIT @ 15 %				**2679.34**
	TOTAL				**20541.59**
14.4	Excavation including refilling as required	cum	15.00	654.00	9810.00
	Cost for 100 Meters				**30351.59**
	Rate per Meter				303.52
	Say				**304.00**

7.2.4 Above 185 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	5.00	900.00	4500.00
	Total cost of materials				**9457.20**
	Cartage @ 1 % of A1				94.57
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	14.00	663.00	9282.00
	TOTAL				**19639.77**
	Add 12% GST (MF= 0.1405)				**2759.39**
	TOTAL				**22399.16**
	OVERHEADS & PROFIT @ 15 %				**3359.87**
	TOTAL				**25759.03**
14.4	Excavation including refilling as required	cum	15.00	654.00	9810.00
	Cost for 100 Meters				35569.03
	Rate per Meter				355.69
	Say				**356.00**

7.3 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.

7.3.1 Upto 35 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**2132.00**
	Add 12% GST (MF= 0.1405)				**299.55**
	TOTAL				**2431.55**
	OVERHEADS & PROFIT @ 15 %				**364.73**
	TOTAL				**2796.28**
14.4	Excavation including refilling as required	cum	26.26	654.00	17174.04
	Cost for 100 Meters				19970.32
	Rate per Meter				199.70
	Say				**200.00**

7.3.2 Above 35 sq. mm and upto 95 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**3458.00**
	Add 12% GST (MF= 0.1405)				**485.85**
	TOTAL				**3943.85**
	OVERHEADS & PROFIT @ 15 %				**591.58**
	TOTAL				**4535.43**
14.4	Excavation including refilling as required	cum	26.26	654.00	17174.04
	Cost for 100 Meters				21709.47
	Rate per Meter				217.09
	Say				**217.00**

7.3.3 Above 95 sq. mm and upto 185 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	6.00	663.00	3978.00
	TOTAL				**4784.00**
	Add 12% GST (MF= 0.1405)				**672.15**
	TOTAL				**5456.15**
	OVERHEADS & PROFIT @ 15 %				**818.42**
	TOTAL				**6274.57**
14.4	Excavation including refilling as required	cum	26.26	654.00	17174.04
	Cost for 100 Meters				23448.61
	Rate per Meter				234.49
	Say				**234.00**

7.3.4 Above 185 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	12.00	663.00	7956.00
	TOTAL				**8762.00**
	Add 12% GST (MF= 0.1405)				**1231.06**
	TOTAL				**9993.06**

	OVERHEADS & PROFIT @ 15 %				**1498.96**
	TOTAL				**11492.02**
14.4	Excavation including refilling as required	cum	26.26	654.00	17174.04
	Cost for 100 Meters				28666.06
	Rate per Meter				286.66
	Say				**287.00**

7.4 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.

7.4.1 Upto 35 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**2132.00**
	Add 12% GST (MF= 0.1405)				**299.55**
	TOTAL				**2431.55**
	OVERHEADS & PROFIT @ 15 %				**364.73**
	TOTAL				**2796.28**
14.4	Excavation including refilling as required	cum	15.00	654.00	9810.00
	Cost for 100 Meters				12606.28
	Rate per Meter				126.06
	Say				**126.00**

7.4.2 Above 35 sq. mm and upto 95 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**3458.00**
	Add 12% GST (MF= 0.1405)				**485.85**
	TOTAL				**3943.85**
	OVERHEADS & PROFIT @ 15 %				**591.58**
	TOTAL				**4535.43**
14.4	Excavation including refilling as required	cum	15.00	654.00	9810.00
	Cost for 100 Meters				14345.43
	Rate per Meter				143.45
	Say				**143.00**

7.4.3 Above 95 sq. mm and upto 185 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	**Wireman**	day	1.00	806.00	806.00
1007	**Khallasi**	day	6.00	663.00	3978.00
	TOTAL				4784.00
	Add 12% GST (MF= 0.1405)				672.15
	TOTAL				5456.15
	OVERHEADS & PROFIT @ 15 %				818.42
	TOTAL				6274.57
14.4	**Excavation including refilling as required**	cum	15.00	654.00	9810.00
	Cost for 100 Meters				16084.57
	Rate per Meter				160.85
	Say				161.00

7.4.4 Above 185 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	**Wireman**	day	1.00	806.00	806.00
1007	**Khallasi**	day	12.00	663.00	7956.00
	TOTAL				8762.00
	Add 12% GST (MF= 0.1405)				1231.06
	TOTAL				9993.06
	OVERHEADS & PROFIT @ 15 %				1498.96
	TOTAL				11492.02
14.4	**Excavation including refilling as required**	cum	15.00	654.00	9810.00
	Cost for 100 Meters				21302.02
	Rate per Meter				213.02
	Say				213.00

7.5 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.

7.5.1 Upto 35 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00

1007	Khallasi	Day	3.00	663.00	1989.00
	TOTAL				**2795.00**
	Add 12% GST (MF= 0.1405)				**392.70**
	TOTAL				**3187.70**
	OVERHEADS & PROFIT @ 15 %				478.15
	Cost for 100 Meters				3665.85
	Rate per Meter				36.66
	Say				**37.00**

7.5.2 Above 35 sq. mm and upto 95 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.25	806.00	1007.50
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**4322.50**
	Add 12% GST (MF= 0.1405)				**607.31**
	TOTAL				**4929.81**
	OVERHEADS & PROFIT @ 15 %				739.47
	Cost for 100 Meters				5669.28
	Rate per Meter				56.69
	Say				**57.00**

7.5.3 Above 95 sq. mm and upto 185 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	7.00	663.00	4641.00
	TOTAL				**5850.00**
	Add 12% GST (MF= 0.1405)				**821.93**
	TOTAL				**6671.93**
	OVERHEADS & PROFIT @ 15 %				1000.79
	Cost for 100 Meters				7672.72
	Rate per Meter				76.73
	Say				**77.00**

7.5.4 Above 185 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)

	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1007	Khallasi	day	13.00	663.00	8619.00
	TOTAL				**10231.00**
	Add 12% GST (MF= 0.1405)				**1437.46**
	TOTAL				**11668.46**
	OVERHEADS & PROFIT @ 15 %				1750.27
	Cost for 100 Meters				13418.73
	Rate per Meter				134.19
	Say				**134.00**

7.6 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.

7.6.1 Upto 35 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**2132.00**
	Add 12% GST (MF= 0.1405)				**299.55**
	TOTAL				**2431.55**
	OVERHEADS & PROFIT @ 15 %				364.73
	Cost for 100 Meters				2796.28
	Rate per Meter				27.96
	Say				**28.00**

7.6.2 Above 35 sq. mm and upto 95 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**3458.00**
	Add 12% GST (MF= 0.1405)				**485.85**
	TOTAL				**3943.85**
	OVERHEADS & PROFIT @ 15 %				591.58
	Cost for 100 Meters				4535.43
	Rate per Meter				45.35
	Say				**45.00**

7.6.3 Above 95 sq. mm and upto 185 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	6.00	663.00	3978.00
	TOTAL				**4784.00**
	Add 12% GST (MF= 0.1405)				**672.15**
	TOTAL				**5456.15**
	OVERHEADS & PROFIT @ 15 %				818.42
	Cost for 100 Meters				6274.57
	Rate per Meter				62.75
	Say				**63.00**

7.5.3 Above 95 sq. mm and upto 185 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	12.00	663.00	7956.00
	TOTAL				**8762.00**
	Add 12% GST (MF= 0.1405)				**1231.06**
	TOTAL				**9993.06**
	OVERHEADS & PROFIT @ 15 %				1498.96
	Cost for 100 Meters				11492.02
	Rate per Meter				114.92
	Say				**115.00**

7.7 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.

7.7.1 Upto 35 sq. mm (clamped with 1mm thick saddle)

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2881	GI saddles 19mm x 0.55mm for conduit = 100/0.45 = 222 + 4 (Wastage @ 2%) = 226 Nos	each	226.00	1.80	406.80
2854	Iron screws, 45 mm X 6 mm	each	452.00	1.80	813.60

2857	PVC fastener 40mm long	each	452.00	0.90	406.80
2935	Cement, paint, sand etc.	L.S.	2.00	7.20	14.40
	Total cost of materials				**1641.60**
	Cartage @ 1 % of A1				16.42
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1010	Mason, Grade 2	day	0.50	734.00	367.00
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**4157.02**
	Add 12% GST (MF= 0.1405)				**584.06**
	TOTAL				**4741.08**
	OVERHEADS & PROFIT @ 15 %				711.16
	Cost for 100 Meters				5452.24
	Rate per meter				54.52
	Say				**55.00**

7.7.2 Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2862	32mm X 8mm bolts & nuts = 2x(100/0.6) = 334 + 16 (Wastage @ 5%) = 350 Nos	each	350.00	5.40	1890.00
2809	20/25 mm X 3 mm flat iron = 84 x 0.16m = 13.44m @ 0.337kg/m = 4.53 kg	kg	9.06	56.00	507.36
2855	Steel fastener 6 mm X 75 mm	each	336.00	7.20	2419.20
	Total cost of materials				**4816.56**
	Cartage @ 1 % of A1				48.17
	LABOUR				
1001	Wireman	day	1.25	806.00	1007.50
1005	Fitter, Grade 2	day	0.33	734.00	242.22
1009	Blacksmith, Grade 2	day	0.33	734.00	242.22
1010	Mason, Grade 2	day	0.33	734.00	242.22
1007	Khallasi	day	5.00	663.00	3315.00
	TOTAL				**9913.89**
	Add 12% GST (MF= 0.1405)				**1392.90**
	TOTAL				**11306.79**
	OVERHEADS & PROFIT @ 15 %				1696.02
	Cost for 100 Meters				13002.81
	Rate per meter				130.03
	Say				**130.00**

7.7.3 Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2862	32mm X 8mm bolts & nuts = 2x(100/0.6) = 334 + 16 (Wastage @ 5%) = 350 Nos	each	350.00	5.40	1890.00
2809	20/25 mm X 3 mm flat iron = 84 x 0.24m = 20.16m @ 0.337kg/m = 6.79 kg	kg	13.58	56.00	760.48
2855	Steel fastener 6 mm X 75 mm	each	336.00	7.20	2419.20
	Total cost of materials				**5069.68**
	Cartage @ 1 % of A1				50.70
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1005	Fitter, Grade 2	day	0.33	734.00	242.22
1009	Blacksmith, Grade 2	day	0.33	734.00	242.22
1010	Mason, Grade 2	day	0.33	734.00	242.22
1007	Khallasi	day	7.00	663.00	4641.00
	TOTAL				**11697.04**
	Add 12% GST (MF= 0.1405)				**1643.43**
	TOTAL				**13340.47**
	OVERHEADS & PROFIT @ 15 %				2001.07
	Cost for 100 Meters				15341.54
	Rate per meter				153.42
	Say				**153.00**

7.7.4 Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2862	32mm X 8mm bolts & nuts = 2x(100/0.6) = 334 + 16 (Wastage @ 5%) = 350 Nos	each	350.00	5.40	1890.00
2812	40 mm X 3 mm flat iron = 84 x 0.24m = 20.16m @ 0.547kg/m = 11.03 kg	kg	22.06	56.00	1235.36
2855	Steel fastener 6 mm X 75 mm	each	336.00	7.20	2419.20
	Total cost of materials				**5544.56**
	Cartage @ 1 % of A1				55.45
	LABOUR				

1001	Wireman	day	2.00	806.00	1612.00
1005	Fitter, Grade 2	day	0.50	734.00	367.00
1009	Blacksmith, Grade 2	day	0.50	734.00	367.00
1010	Mason, Grade 2	day	0.50	734.00	367.00
1007	Khallasi	day	13.50	663.00	8950.50
	TOTAL				**17263.51**
	Add 12% GST (MF= 0.1405)				**2425.52**
	TOTAL				**19689.03**
	OVERHEADS & PROFIT @ 15 %				2953.35
	Cost for 100 Meters				22642.38
	Rate per meter				226.42
	Say				**226.00**

7.8 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.

7.8.1 Upto 35 sq. mm (clamped with 1mm thick saddle)

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2881	GI saddles 19mm x 0.55mm for conduit = 100/0.45 = 222 + 4 (Wastage @ 2%) = 226 Nos	each	226.00	1.80	406.80
2854	Iron screws, 45 mm X 6 mm	each	452.00	1.80	813.60
2935	Cement, paint, sand etc.	L.S.	2.00	7.20	14.40
	Total cost of materials				**1234.80**
	Cartage @ 1 % of A1				12.35
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**3379.15**
	Add 12% GST (MF= 0.1405)				**474.77**
	TOTAL				**3853.92**
	OVERHEADS & PROFIT @ 15 %				578.09
	Cost for 100 Meters				4432.01
	Rate per meter				44.32
	Say				**45.00**

7.8.2 Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2862	32mm X 8mm bolts & nuts = 2x(100/0.6) = 334 + 16 (Wastage @ 5%) = 350 Nos	Each	350.00	5.40	1890.00
2809	20/25 mm X 3 mm flat iron = 84 x 0.16m = 13.44m @ 0.337kg/m = 4.53 kg	kg	9.06	56.00	507.36
	Total cost of materials				**2397.36**
	Cartage @ 1 % of A1				23.97
	LABOUR				
1001	Wireman	day	1.25	806.00	1007.50
1005	Fitter, Grade 2	day	0.33	734.00	242.22
1009	Blacksmith, Grade 2	day	0.33	734.00	242.22
1007	Khallasi	day	4.66	663.00	3089.58
	TOTAL				**7002.85**
	Add 12% GST (MF= 0.1405)				**983.90**
	TOTAL				**7986.75**
	OVERHEADS & PROFIT @ 15 %				1198.01
	Cost for 100 Meters				9184.76
	Rate per meter				91.85
	Say				**92.00**

7.8.3 Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2862	32mm X 8mm bolts & nuts = 2x(100/0.6) = 334 + 16 (Wastage @ 5%) = 350 Nos	each	350.00	5.40	1890.00
2809	20/25 mm X 3 mm flat iron = 84 x 0.24m = 20.16m @ 0.337kg/m = 6.79 kg	kg	13.58	56.00	760.48
	Total cost of materials				**2650.48**
	Cartage @ 1 % of A1				26.50
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1005	Fitter, Grade 2	day	0.33	734.00	242.22
1009	Blacksmith, Grade 2	day	0.33	734.00	242.22
1007	Khallasi	day	6.66	663.00	4415.58
	TOTAL				**8786.00**
	Add 12% GST (MF= 0.1405)				**1234.43**
	TOTAL				**10020.44**
	OVERHEADS & PROFIT @ 15 %				1503.07
	Cost for 100 Meters				11523.51
	Rate per meter				115.24
	Say				**115.00**

7.8.4 Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2862	32mm X 8mm bolts & nuts = 2x(100/0.6) = 334 + 16 (Wastage @ 5%) = 350 Nos	each	350.00	5.40	1890.00
2812	40 mm X 3 mm flat iron = 84 x 0.24m = 20.16m @ 0.547kg/m = 11.03 kg	kg	22.06	56.00	1235.36
	Total cost of materials				**3125.36**
	Cartage @ 1 % of A1				31.25
	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1005	Fitter, Grade 2	day	0.50	734.00	367.00
1009	Blacksmith, Grade 2	day	0.50	734.00	367.00
1007	Khallasi	day	13.00	663.00	8619.00
	TOTAL				**14121.61**
	Add 12% GST (MF= 0.1405)				**1984.09**
	TOTAL				**16105.70**
	OVERHEADS & PROFIT @ 15 %				2415.86
	Cost for 100 Meters				18521.56
	Rate per meter				185.22
	Say				**185.00**

7.9 Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.

Details of cost for One each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1010	Mason, Grade 2	day	0.120	734.00	88.08
1007	Khallasi	day	0.120	663.00	79.56
	TOTAL				**167.64**
	Add 12% GST (MF= 0.1405)				**23.55**
	TOTAL				**191.19**
	Add 15 % Over Head & Contractor Profit				28.68
	TOTAL				**219.87**

14.4	Excavation including refilling as required	cum	0.22	654.00	143.88
14.7	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	0.03	7365.15	220.95
	TOTAL				**584.70**
	Rate per Each				584.70
	Say				**585.00**

7.10 Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.

Details of cost for One each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2926	G.I. plate (10 cm X 10 cm X 5 mm)	kg	0.39	67.50	26.33
2806	35 mm X 35 mm X 5 mm angle iron	kg	1.97	56.00	110.32
2868	16 mm X 40 mm bolts and nuts with washers	set	2.00	9.00	18.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**161.85**
	Cartage @ 1 % of A1				1.62
	LABOUR				
1005	Fitter, Grade 2	day	0.120	734.00	88.08
1006	Painter	day	0.077	734.00	56.52
1007	Khallasi	day	0.120	663.00	79.56
	TOTAL				**387.63**
	Add 12% GST (MF= 0.1405)				**54.46**
	TOTAL				**442.09**
	Add 15 % Over Head & Contractor Profit				66.31
	TOTAL				**508.40**
	Rate per Each				508.40
	Say				**508.00**

CHAPTER 8 – H V CABLE LAYING

8.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.

8.1.1 Upto 120 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	8.76	900.00	7884.00
	Total cost of materials				**12841.20**
	Cartage @ 1 % of A1				128.41
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	8.00	663.00	5304.00
	TOTAL				**19079.61**
	Add 12% GST (MF= 0.1405)				**2680.69**
	TOTAL				**21760.30**
	Add 15 % Over Head & Contractor Profit				3264.04
	TOTAL				**25024.34**
14.4	Excavation including refilling as required	cum	42.00	654.00	27468.00
	Cost for 100 Meters				**52492.34**
	Rate per Meter				524.92
	Say				**525.00**

8.1.2 Above 120 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	8.76	900.00	7884.00
	Total cost of materials				**12841.20**
	Cartage @ 1 % of A1				128.41
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	14.00	663.00	9282.00
	TOTAL				**23057.61**

	Add 12% GST (MF= 0.1405)				3239.59
	TOTAL				26297.21
	Add 15 % Over Head & Contractor Profit				3944.58
	TOTAL				30241.79
14.4	Excavation including refilling as required	cum	42.00	654.00	27468.00
	Cost for 100 Meters				57709.79
	Rate per Meter				577.10
	Say				577.00

8.2 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.

8.2.1 Upto 120 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	5.00	900.00	4500.00
	Total cost of materials				9457.20
	Cartage @ 1 % of A1				94.57
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	8.00	663.00	5304.00
	TOTAL				15661.77
	Add 12% GST (MF= 0.1405)				2200.48
	TOTAL				17862.25
	Add 15 % Over Head & Contractor Profit				2679.34
	TOTAL				20541.59
14.4	Excavation including refilling as required	cum	24.00	654.00	15696.00
	Cost for 100 Meters				36237.59
	Rate per Meter				362.38
	Say				362.00

8.2.2 Above 120 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	Each	918.00	5.40	4957.20
2946	Fine sand	cum	5.00	900.00	4500.00
	Total cost of materials				9457.20
	Cartage @ 1 % of A1				94.57
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	14.00	663.00	9282.00
	TOTAL				19639.77
	Add 12% GST (MF= 0.1405)				2759.39
	TOTAL				22399.16
	Add 15 % Over Head & Contractor Profit				3359.87
	TOTAL				25759.03
14.4	Excavation including refilling as required	cum	24.00	654.00	15696.00
	Cost for 100 Meters				41455.03
	Rate per Meter				414.55
	Say				415.00

8.3 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.

8.3.1 Upto 120 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	7.00	663.00	4641.00
	TOTAL				5850.00
	Add 12% GST (MF= 0.1405)				821.93
	TOTAL				6671.93
	OVERHEADS & PROFIT @ 15 %				1000.79
	Cost for 100 Meters				7672.72
	Rate per Meter				76.73
	Say				77.00

8.3 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.

8.3.2 Above 120 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)

	LABOUR				
1001	Wireman	day	2.00	806.00	1612.00
1007	Khallasi	day	13.00	663.00	8619.00
	TOTAL				**10231.00**
	Add 12% GST (MF= 0.1405)				**1437.46**
	TOTAL				**11668.46**
	OVERHEADS & PROFIT @ 15 %				1750.27
	Cost for 100 Meters				13418.73
	Rate per Meter				134.19
	Say				**134.00**

8.4 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required.

8.4.1 Upto 120 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.00	806.00	806.00
1007	Khallasi	day	6.00	663.00	3978.00
	TOTAL				**4784.00**
	Add 12% GST (MF= 0.1405)				**672.15**
	TOTAL				**5456.15**
	OVERHEADS & PROFIT @ 15 %				818.42
	Cost for 100 Meters				6274.57
	Rate per Meter				62.75
	Say				**63.00**

8.4.2 Above 120 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	806.00	806.00	806.00
1007	Khallasi	day	663.00	663.00	7956.00
	TOTAL				**8762.00**
	Add 12% GST (MF= 0.1405)				**1231.06**
	TOTAL				**9993.06**
	OVERHEADS & PROFIT @ 15 %				1498.96
	Cost for 100 Meters				11492.02
	Rate per Meter				114.92
	Say				**115.00**

8.5 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.

8.5.1 Upto 120 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	8.76	900.00	7884.00
	Total cost of materials				**12841.20**
	Cartage @ 1 % of A1				128.41
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	8.00	663.00	5304.00
	TOTAL				**19482.61**
	Add 12% GST (MF= 0.1405)				**2737.31**
	TOTAL				**22219.92**
	OVERHEADS & PROFIT @ 15 %				3332.99
	TOTAL				25552.91
14.4	Excavation including refilling as required	cum	42.00	654.00	27468.00
	Cost for 100 Meters				53020.91
	Rate per Meter				530.21
	Say				**530.00**

8.5.2 Above 120 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	8.76	900.00	7884.00
	Total cost of materials				12841.20
	Cartage @ 1 % of A1				128.41
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	14.00	663.00	9282.00
	TOTAL				**23460.61**
	Add 12% GST (MF= 0.1405)				**3296.22**
	TOTAL				**26756.83**
	OVERHEADS & PROFIT @ 15 %				4013.52
	TOTAL				**30770.35**

14.4	Excavation including refilling as required	cum	42.00	654.00	27468.00
	Cost for 100 Meters				**58238.35**
	Rate per Meter				582.38
	Say				**582.00**

8.6 Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 33 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.

8.6.1 Upto 120 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	5.00	900.00	4500.00
	Total cost of materials				**9457.20**
	Cartage @ 1 % of A1				94.57
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	8.00	663.00	5304.00
	TOTAL				**16064.77**
	Add 12% GST (MF= 0.1405)				**2257.10**
	TOTAL				**18321.87**
	OVERHEADS & PROFIT @ 15 %				2748.28
	TOTAL				**21070.15**
14.4	Excavation including refilling as required	cum	24.00	654.00	15696.00
	Cost for 100 Meters				36766.15
	Rate per Meter				367.66
	Say				**368.00**

8.6.2 Above 120 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	5.40	4957.20
2946	Fine sand	cum	5.00	900.00	4500.00
	Total cost of materials				**9457.20**
	Cartage @ 1 % of A1				94.57
	LABOUR				

1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	14.00	663.00	9282.00
	TOTAL				**20042.77**
	Add 12% GST (MF= 0.1405)				**2816.01**
	TOTAL				**22858.78**
	OVERHEADS & PROFIT @ 15 %				3428.82
	TOTAL				26287.60
14.4	Excavation including refilling as required	cum	24.00	654.00	15696.00
	Cost for 100 Meters				**41983.60**
	Rate per Meter				419.84
	Say				**420.00**

8.7 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.

8.7.1 Upto 120 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
	LABOUR				1612.00
1001	Wireman	day	2.00	806.00	4641.00
1007	Khallasi	day	7.00	663.00	**6253.00**
	TOTAL				**878.55**
	Add 12% GST (MF= 0.1405)				**7131.55**
	TOTAL				1069.73
	OVERHEADS & PROFIT @ 15 %				**8201.28**
	Cost for 100 Meters				82.01
	Rate per Meter				**82.00**
	Say				

8.7.2 Above 120 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
	LABOUR				
1001	Wireman	day	2.50	806.00	2015.00
1007	Khallasi	day	13.00	663.00	8619.00
	TOTAL				**10634.00**
	Add 12% GST (MF= 0.1405)				**1494.08**
	TOTAL				**12128.08**
	OVERHEADS & PROFIT @ 15 %				1819.21
	Cost for 100 Meters				**13947.29**
	Rate per Meter				139.47
	Say				**139.00**

8.8 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 KV grade of following size in the existing masonry open duct as required.

8.8.1 Upto 120 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	6.00	663.00	3978.00
	TOTAL				**5187.00**
	Add 12% GST (MF= 0.1405)				**728.77**
	TOTAL				**5915.77**
	OVERHEADS & PROFIT @ 15 %				887.37
	Cost for 100 Meters				6803.14
	Rate per Meter				68.03
	Say				**68.00**

8.8.2 Above 120 sq. mm and upto 400 sq. Mm

Details of cost for 100 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1001	Wireman	day	1.50	806.00	1209.00
1007	Khallasi	day	12.00	663.00	7956.00
	TOTAL				**9165.00**
	Add 12% GST (MF= 0.1405)				**1287.68**
	TOTAL				**10452.68**
	OVERHEADS & PROFIT @ 15 %				1567.90
	Cost for 100 Meters				**12020.58**
	Rate per Meter				120.21
	Say				**120.00**

CHAPTER 9 – MV CABLE JOINTING & END TERMINATION

9.1 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.

9.1.1 2 X 6 sq. mm (19mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2101	Brass compression gland (19 mm) for 2 X 6 sq. mm 1.1 KV grade cable	set	1.00	32.25	32.25
2201	Aluminium lugs for 6 sq. mm cable	each	2.00	1.58	3.16
	Total cost of materials				**35.41**
	Cartage @ 1 % of A1				0.35
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**182.66**
	Add 12% GST (MF= 0.1405)				**25.66**
	TOTAL				**208.33**
	OVERHEADS & PROFIT @ 15 %				31.25
	TOTAL				**239.58**
	Rate per Set				239.58
	Say				**240.00**

9.1.2 2 X 10 sq. mm (19mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2102	Brass compression gland (19 mm) for 2 X 10 sq. mm 1.1 KV grade cable	set	1.00	32.25	32.25
2202	Aluminium lugs for 10 sq. mm cable	each	2.00	2.10	4.20
	Total cost of materials				**36.45**
	Cartage @ 1 % of A1				0.36
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**183.71**
	Add 12% GST (MF= 0.1405)				**25.81**
	TOTAL				**209.53**
	OVERHEADS & PROFIT @ 15 %				31.43
	TOTAL				**240.96**

	Rate per Set				240.96
	Say				241.00

9.1.3 2 X 16 sq. mm (22mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2103	Brass compression gland for (22 mm) 2 X 16 sq. mm 1.1 KV grade cable	set	1.00	42.00	42.00
2203	Aluminium lugs for 16 sq. mm cable	each	2.00	3.00	6.00
	Total cost of materials				**48.00**
	Cartage @ 1 % of A1				0.48
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**195.38**
	Add 12% GST (MF= 0.1405)				**27.45**
	TOTAL				**222.83**
	OVERHEADS & PROFIT @ 15 %				33.42
	TOTAL				**256.25**
	Rate per Set				256.25
	Say				**256.00**

9.1.4 2 X 25 sq. mm (22mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2104	Brass compression gland for (22 mm) 2 X 25 sq. mm 1.1 KV grade cable	set	1.00	42.00	42.00
2204	Aluminium lugs for 25 sq. mm cable	each	2.00	4.13	8.26
	Total cost of materials				**50.26**
	Cartage @ 1 % of A1				0.50
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**197.66**
	Add 12% GST (MF= 0.1405)				**27.77**
	TOTAL				**225.43**
	OVERHEADS & PROFIT @ 15 %				33.82
	TOTAL				**259.25**
	Rate per Set				259.25
	Say				**259.00**

9.1.5 2 X 35 sq. mm (25mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2105	Brass compression gland for (25 mm) 2 X 35 sq. mm 1.1 KV grade cable	set	1.00	49.50	49.50
2205	Aluminium lugs for 35 sq. mm cable	each	2.00	4.95	9.90
	Total cost of materials				**59.40**
	Cartage @ 1 % of A1				0.59
	LABOUR				
1002	Cable jointer	day	0.12	806.00	96.72
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**236.27**
	Add 12% GST (MF= 0.1405)				**33.20**
	TOTAL				**269.47**
	OVERHEADS & PROFIT @ 15 %				40.42
	TOTAL				309.89
	Rate per Set				309.89
	Say				**310.00**

9.1.6 2 X 50 sq. mm (28mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2106	Brass compression gland for (28 mm) 2 X 50 sq. mm 1.1 KV grade cable	set	1.00	75.75	75.75
2206	Aluminium lugs for 50 sq. mm cable	each	2.00	7.43	14.86
	Total cost of materials				**90.61**
	Cartage @ 1 % of A1				0.91
	LABOUR				
1002	Cable jointer	day	0.12	806.00	96.72
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**267.80**
	Add 12% GST (MF= 0.1405)				**37.63**
	TOTAL				**305.42**
	OVERHEADS & PROFIT @ 15 %				45.81
	TOTAL				**351.23**
	Rate per Set				351.23
	Say				**351.00**

9.1.7 3 X 10 sq. mm (22mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2107	Brass compression gland for (22 mm) 3 X 10 sq. mm 1.1 KV grade cable	set	1.00	42.00	42.00
2202	Aluminium lugs for 10 sq. mm cable	each	3.00	2.10	6.30
	Total cost of materials				**48.30**
	Cartage @ 1 % of A1				0.48
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**195.68**
	Add 12% GST (MF= 0.1405)				**27.49**
	TOTAL				**223.18**
	OVERHEADS & PROFIT @ 15 %				33.48
	TOTAL				**256.66**
	Rate per Set				256.66
	Say				**257.00**

9.1.8 3 X 16 sq. mm (25mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2108	Brass compression gland for (25 mm) 3 X 16 sq. mm 1.1 KV grade cable	set	1.00	49.50	49.50
2203	Aluminium lugs for 16 sq. mm cable	each	3.00	3.00	9.00
	Total cost of materials				**58.50**
	Cartage @ 1 % of A1				0.59
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**205.99**
	Add 12% GST (MF= 0.1405)				**28.94**
	TOTAL				**234.93**
	OVERHEADS & PROFIT @ 15 %				35.24
	TOTAL				**270.17**
	Rate per Set				270.17
	Say				**270.00**

9.1.9 3 X 25 sq. mm (25mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2109	Brass compression gland for (25 mm) 3 X 25 sq. mm 1.1 KV grade cable	set	1.00	49.50	49.50
2204	Aluminium lugs for 25 sq. mm cable	each	3.00	4.13	12.39
	Total cost of materials				**61.89**
	Cartage @ 1 % of A1				0.62
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**209.41**
	Add 12% GST (MF= 0.1405)				**29.42**
	TOTAL				**238.83**
	OVERHEADS & PROFIT @ 15 %				35.82
	TOTAL				**274.65**
	Rate per Set				274.65
	Say				**275.00**

9.1.10 3 X 35 sq. mm (28mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2110	Brass compression gland for (28 mm) 3 X 35 sq. mm 1.1 KV grade cable	set	1.00	75.75	75.75
2205	Aluminium lugs for 35 sq. mm cable	each	3.00	4.95	14.85
	Total cost of materials				**90.60**
	Cartage @ 1 % of A1				0.91
	LABOUR				
1002	Cable jointer	day	0.12	806.00	96.72
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**267.79**
	Add 12% GST (MF= 0.1405)				**37.62**
	TOTAL				**305.41**
	OVERHEADS & PROFIT @ 15 %				45.81
	TOTAL				**351.22**
	Rate per Set				351.22
	Say				**351.00**

9.1.11 3 X 50 sq. mm (32mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2111	Brass compression gland for (32 mm) 3 X 50 sq. mm 1.1 KV grade cable	set	1.00	84.75	84.75
2206	Aluminium lugs for 50 sq. mm cable	each	3.00	7.43	22.29
	Total cost of materials				**107.04**
	Cartage @ 1 % of A1				1.07
	LABOUR				
1002	Cable jointer	day	0.12	806.00	96.72
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**284.39**
	Add 12% GST (MF= 0.1405)				**39.96**
	TOTAL				**324.35**
	OVERHEADS & PROFIT @ 15 %				48.65
	TOTAL				**373.00**
	Rate per Set				373.00
	Say				**373.00**

9.1.12 3 X 70 sq. mm (35mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2112	Brass compression gland for (35 mm) 3 X 70 sq. mm 1.1 KV grade cable	set	1.00	111.00	111.00
2207	Aluminium lugs for 70 sq. mm cable	each	3.00	11.55	34.65
	Total cost of materials				145.65
	Cartage @ 1 % of A1				1.46
	LABOUR				
1002	Cable jointer	day	0.12	806.00	96.72
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**323.39**
	Add 12% GST (MF= 0.1405)				**45.44**
	TOTAL				**368.82**
	OVERHEADS & PROFIT @ 15 %				55.32
	TOTAL				**424.14**
	Rate per Set				424.14
	Say				**424.00**

9.1.13 3 X 95 sq. mm (38mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2113	Brass compression gland for (38 mm) 3 X 95 sq. mm 1.1 KV grade cable	set	1.00	139.50	139.50
2208	Aluminium lugs for 95 sq. mm cable	each	3.00	12.38	37.14
	Total cost of materials				**176.64**
	Cartage @ 1 % of A1				1.77
	LABOUR				
1002	Cable jointer	day	0.16	806.00	128.96
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**413.45**
	Add 12% GST (MF= 0.1405)				**58.09**
	TOTAL				**471.54**
	OVERHEADS & PROFIT @ 15 %				70.73
	TOTAL				**542.27**
	Rate per Set				542.27
	Say				**542.00**

9.1.14 3 X 120 sq. mm (45mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2114	Brass compression gland for (45 mm) 3 X 120 sq. mm 1.1 KV grade cable	set	1.00	166.50	166.50
2209	Aluminium lugs for 120 sq. mm cable	each	3.00	17.25	51.75
	Total cost of materials				**218.25**
	Cartage @ 1 % of A1				2.18
	LABOUR				
1002	Cable jointer	day	0.16	806.00	128.96
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**455.47**
	Add 12% GST (MF= 0.1405)				**63.99**
	TOTAL				**519.47**
	OVERHEADS & PROFIT @ 15 %				77.92
	TOTAL				**597.39**
	Rate per Set				597.39
	Say				**597.00**

9.1.15 3 X 150 sq. mm (50mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2115	Brass compression gland for (50 mm) 3 X 150 sq. mm 1.1 KV grade cable	set	1.00	213.75	213.75
2210	Aluminium lugs for 150 sq. mm cable	each	3.00	22.50	67.50
	Total cost of materials				**281.25**
	Cartage @ 1 % of A1				2.81
	LABOUR				
1002	Cable jointer	day	0.16	806.00	128.96
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**519.10**
	Add 12% GST (MF= 0.1405)				**72.93**
	TOTAL				**592.04**
	OVERHEADS & PROFIT @ 15 %				88.81
	TOTAL				**680.85**
	Rate per Set				680.85
	Say				**681.00**

9.1.16 3 X 185 sq. mm (57mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2116	Brass compression gland for (57 mm) 3 X 185 sq. mm 1.1 KV grade cable	set	1.00	273.75	273.75
2211	Aluminium lugs for 185 sq. mm cable	each	3.00	27.75	83.25
	Total cost of materials				**357.00**
	Cartage @ 1 % of A1				3.57
	LABOUR				
1002	Cable jointer	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**654.37**
	Add 12% GST (MF= 0.1405)				**91.94**
	TOTAL				**746.31**
	OVERHEADS & PROFIT @ 15 %				111.95
	TOTAL				**858.26**
	Rate per Set				858.26
	Say				**858.00**

9.1.17 3 X 225 sq. mm (62mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2117	Brass compression gland for (62 mm)	set	1.00	323.25	323.25
2212	3 X 225 sq. mm 1.1 KV grade cable Aluminium lugs for 225 sq. mm cable	each	3.00	39.75	119.25
	Total cost of materials				**442.50**
	Cartage @ 1 % of A1				4.43
1002	**LABOUR**				
1007	Cable jointer	day	0.20	806.00	161.20
	Khallasi	day	0.20	663.00	132.60
	TOTAL				**740.73**
	Add 12% GST (MF= 0.1405)				**104.07**
	TOTAL				**844.80**
	OVERHEADS & PROFIT @ 15 %				**126.72**
	TOTAL				971.52
	Rate per Set				971.52
	Say				**972.00**

9.1.18 3 X 240 sq. mm (62mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2118	Brass compression gland for (62 mm)	set	1.00	323.25	323.25
2213	3 X 240 sq. mm 1.1 KV grade cable Aluminium lugs for 240 sq. mm cable	each	3.00	48.00	144.00
	Total cost of materials				**467.25**
	Cartage @ 1 % of A1				4.67
	LABOUR				
1002	Cable jointer	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**765.72**
	Add 12% GST (MF= 0.1405)				**107.58**
	TOTAL				**873.31**
	OVERHEADS & PROFIT @ 15 %				**131.00**
	TOTAL				1004.31
	Rate per Set				1004.31
	Say				**1004.00**

9.1.19 3 X 300 sq. mm (70mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2119	Brass compression gland for (70 mm) 3 X 300 sq. mm 1.1 KV grade cable	set	1.00	386.25	386.25
2214	Aluminium lugs for 300 sq. mm cable	each	3.00	67.50	202.50
	Total cost of materials				**588.75**
	Cartage @ 1 % of A1				5.89
	LABOUR				
1002	Cable jointer	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**888.44**
	Add 12% GST (MF= 0.1405)				**124.83**
	TOTAL				**1013.26**
	OVERHEADS & PROFIT @ 15 %				**151.99**
	TOTAL				1165.25
	Rate per Set				1165.25
	Say				**1165.00**

9.1.20 3½ X 25 sq. mm (28mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2120	Brass compression gland for (28 mm) 3½ X 25 sq. mm 1.1 KV grade cable	set	1.00	75.75	75.75
2204	Aluminium lugs for 25 sq. mm cable	each	3.00	4.13	12.39
2203	Aluminium lugs for 16 sq. mm cable	each	1.00	3.00	3.00
	Total cost of materials				**91.14**
	Cartage @ 1 % of A1				0.91
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**238.95**
	Add 12% GST (MF= 0.1405)				**33.57**
	TOTAL				**272.52**
	OVERHEADS & PROFIT @ 15 %				**40.88**
	TOTAL				313.40
	Rate per Set				313.40
	Say				**313.00**

9.1.21 3½ X 35 sq. mm (32mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2121	Brass compression gland for (32 mm) 3½ X 35 sq. mm 1.1 KV grade cable	set	1.00	84.75	84.75
2205	Aluminium lugs for 35 sq. mm cable	each	3.00	4.95	14.85
2204	Aluminium lugs for 25 sq. mm cable	each	1.00	4.13	4.13
	Total cost of materials				**103.73**
	Cartage @ 1 % of A1				1.04
	LABOUR				
1002	Cable jointer	day	0.12	806.00	96.72
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**281.05**
	Add 12% GST (MF= 0.1405)				**39.49**
	TOTAL				**320.53**
	OVERHEADS & PROFIT @ 15 %				**48.08**
	TOTAL				368.61
	Rate per Set				368.61
	Say				**369.00**

9.1.22 3½ X 50 sq. mm (35mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2122	Brass compression gland for (35 mm) 3½ X 50 sq. mm 1.1 KV grade cable	set	1.00	111.00	111.00
2206	Aluminium lugs for 50 sq. mm cable	each	3.00	7.43	22.29
2204	Aluminium lugs for 25 sq. mm cable	each	1.00	4.13	4.13
	Total cost of materials				**137.42**
	Cartage @ 1 % of A1				1.37
	LABOUR				
1002	Cable jointer	day	0.12	806.00	96.72
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**315.07**
	Add 12% GST (MF= 0.1405)				**44.27**
	TOTAL				**359.34**
	OVERHEADS & PROFIT @ 15 %				**53.90**
	TOTAL				413.24
	Rate per Set				413.24
	Say				**413.00**

9.1.23 3½ X 70 sq. mm (38mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2123	Brass compression gland for (38 mm) 3½ X 70 sq. mm 1.1 KV grade cable	set	1.00	139.50	139.50
2207	Aluminium lugs for 70 sq. mm cable	each	3.00	11.55	34.65
2205	Aluminium lugs for 35 sq. mm cable	each	1.00	4.95	4.95
	Total cost of materials				**179.10**
	Cartage @ 1 % of A1				1.79
	LABOUR				
1002	Cable jointer	day	0.12	806.00	96.72
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**357.17**
	Add 12% GST (MF= 0.1405)				**50.18**
	TOTAL				**407.35**
	OVERHEADS & PROFIT @ 15 %				**61.10**
	TOTAL				468.45
	Rate per Set				468.45
	Say				**468.00**

9.1.24 3½ X 95 sq. mm (45mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2124	Brass compression gland for (45 mm) 3½ X 95 sq. mm 1.1 KV grade cable	set	1.00	166.50	166.50
2208	Aluminium lugs for 95 sq. mm cable	each	3.00	12.38	37.14
2206	Aluminium lugs for 50 sq. mm cable	each	1.00	7.43	7.43
	Total cost of materials				**211.07**
	Cartage @ 1 % of A1				2.11
	LABOUR				
1002	Cable jointer	day	0.16	806.00	128.96
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**448.22**
	Add 12% GST (MF= 0.1405)				**62.98**
	TOTAL				**511.20**
	OVERHEADS & PROFIT @ 15 %				**76.68**
	TOTAL				587.88
	Rate per Set				587.88
	Say				**588.00**

9.1.25 3½ X 120 sq. mm (45mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2125	Brass compression gland for (45 mm) 3½ X 120 sq. mm 1.1 KV grade cable	set	1.00	166.50	166.50
2209	Aluminium lugs for 120 sq. mm cable	each	3.00	17.25	51.75
2207	Aluminium lugs for 70 sq. mm cable	each	1.00	11.55	11.55
	Total cost of materials				**229.80**
	Cartage @ 1 % of A1				2.30
	LABOUR				
1002	Cable jointer	day	0.16	806.00	128.96
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**467.14**
	Add 12% GST (MF= 0.1405)				**65.63**
	TOTAL				**532.77**
	OVERHEADS & PROFIT @ 15 %				**79.92**
	TOTAL				612.69
	Rate per Set				612.69
	Say				**613.00**

9.1.26 3½ X 150 sq. mm (50mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2126	Brass compression gland for (50 mm) 3½ X 150 sq. mm 1.1 KV grade cable	set	1.00	213.75	213.75
2210	Aluminium lugs for 150 sq. mm cable	each	3.00	22.50	67.50
2208	Aluminium lugs for 95 sq. mm cable	each	1.00	12.38	12.38
	Total cost of materials				**293.63**
	Cartage @ 1 % of A1				2.94
	LABOUR				
1002	Cable jointer	day	0.16	806.00	128.96
1007	Khallasi	day	0.16	663.00	106.08
	TOTAL				**531.61**
	Add 12% GST (MF= 0.1405)				**74.69**
	TOTAL				**606.30**
	OVERHEADS & PROFIT @ 15 %				**90.94**
	TOTAL				697.24
	Rate per Set				697.24
	Say				**697.00**

9.1.27 3½ X 185 sq. mm (57mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2127	Brass compression gland for (57 mm) 3½ X 185 sq. mm 1.1 KV grade cable	set	1.00	273.75	273.75
2211	Aluminium lugs for 185 sq. mm cable	each	3.00	27.75	83.25
2208	Aluminium lugs for 95 sq. mm cable	each	1.00	12.38	12.38
	Total cost of materials				**369.38**
	Cartage @ 1 % of A1				3.69
	LABOUR				
1002	Cable jointer	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**666.87**
	Add 12% GST (MF= 0.1405)				**93.70**
	TOTAL				**760.57**
	OVERHEADS & PROFIT @ 15 %				**114.09**
	TOTAL				874.66
	Rate per Set				874.66
	Say				**875.00**

9.1.28 3½ X 225 sq. mm (62mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2128	Brass compression gland for (62 mm) 3½ X 225 sq. mm 1.1 KV grade cable	set	1.00	323.25	323.25
2212	Aluminium lugs for 225 sq. mm cable	each	3.00	39.75	119.25
2209	Aluminium lugs for 120 sq. mm cable	each	1.00	17.25	17.25
	Total cost of materials				**459.75**
	Cartage @ 1 % of A1				4.60
	LABOUR				
1002	Cable jointer	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**758.15**
	Add 12% GST (MF= 0.1405)				**106.52**
	TOTAL				**864.67**
	OVERHEADS & PROFIT @ 15 %				**129.70**
	TOTAL				994.37
	Rate per Set				994.37
	Say				**994.00**

9.1.29 3½ X 240 sq. mm (62mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2129	Brass compression gland for (62 mm) 3½ X 240 sq. mm 1.1 KV grade cable	set	1.00	323.25	323.25
2213	Aluminium lugs for 240 sq. mm cable	each	3.00	48.00	144.00
2209	Aluminium lugs for 120 sq. mm cable	each	1.00	17.25	17.25
	Total cost of materials				**484.50**
	Cartage @ 1 % of A1				4.85
	LABOUR				
1002	Cable jointer	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**783.15**
	Add 12% GST (MF= 0.1405)				**110.03**
	TOTAL				**893.18**
	OVERHEADS & PROFIT @ 15 %				**133.98**
	TOTAL				1027.16
	Rate per Set				1027.16
	Say				**1027.00**

9.1.30 3½ X 300 sq. mm (70mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2130	Brass compression gland for (70 mm) 3½ X 300 sq. mm 1.1 KV grade cable	set	1.00	386.25	386.25
2214	Aluminium lugs for 300 sq. mm cable	each	3.00	67.50	202.50
2210	Aluminium lugs for 150 sq. mm cable	each	1.00	22.50	22.50
	Total cost of materials				**611.25**
	Cartage @ 1 % of A1				6.11
	LABOUR				
1002	Cable jointer	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**911.16**
	Add 12% GST (MF= 0.1405)				**128.02**
	TOTAL				**1039.18**
	OVERHEADS & PROFIT @ 15 %				**155.88**
	TOTAL				1195.06
	Rate per Set				1195.06
	Say				**1195.00**

9.1.31 3½ X 400 sq. mm (82mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2131	Brass compression gland for (82 mm) 3½ X 400 sq. mm 1.1 KV grade cable	set	1.00	551.25	551.25
2215	Aluminium lugs for 400 sq. mm cable	each	3.00	97.50	292.50
2212	Aluminium lugs for 225 sq. mm cable	each	1.00	39.75	39.75
	Total cost of materials				**883.50**
	Cartage @ 1 % of A1				8.84
	LABOUR				
1002	Cable jointer	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**1186.14**
	Add 12% GST (MF= 0.1405)				**166.65**
	TOTAL				**1352.79**
	OVERHEADS & PROFIT @ 15 %				**202.92**
	TOTAL				1555.71
	Rate per Set				1555.71
	Say				**1556.00**

9.1.32 4 X 10 sq. mm (25mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2132	Brass compression gland for (25 mm) 4 X 10 sq. mm 1.1 KV grade cable	set	1.00	49.50	49.50
2202	Aluminium lugs for 10 sq. mm cable	each	4.00	2.10	8.40
	Total cost of materials				**57.90**
	Cartage @ 1 % of A1				0.58
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**205.38**
	Add 12% GST (MF= 0.1405)				**28.86**
	TOTAL				**234.23**
	OVERHEADS & PROFIT @ 15 %				**35.14**
	TOTAL				269.37
	Rate per Set				269.37
	Say				**269.00**

9.1.33 4 X 16 sq. mm (28mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2133	Brass compression gland for (28 mm) 4 X 16 sq. mm 1.1 KV grade cable	set	1.00	75.75	75.75
2203	Aluminium lugs for 16 sq. mm cable	each	4.00	3.00	12.00
	Total cost of materials				87.75
	Cartage @ 1 % of A1				0.88
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				235.53
	Add 12% GST (MF= 0.1405)				33.09
	TOTAL				268.62
	OVERHEADS & PROFIT @ 15 %				40.29
	TOTAL				308.91
	Rate per Set				308.91
	Say				309.00

9.1.34 4 X 25 sq. mm (28mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2134	Brass compression gland for (28 mm) 4 X 25 sq. mm 1.1 KV grade cable	set	1.00	75.75	75.75
2204	Aluminium lugs for 25 sq. mm cable	each	4.00	4.13	16.52
	Total cost of materials				92.27
	Cartage @ 1 % of A1				0.92
	LABOUR				
1002	Cable jointer	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				240.09
	Add 12% GST (MF= 0.1405)				33.73
	TOTAL				273.83
	OVERHEADS & PROFIT @ 15 %				41.07
	TOTAL				314.90
	Rate per Set				314.90
	Say				315.00

9.1.35 4 X 35 sq. mm (32mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2135	Brass compression gland for (32 mm) 4 X 35 sq. mm 1.1 KV grade cable	set	1.00	84.75	84.75
2205	Aluminium lugs for 35 sq. mm cable	each	4.00	4.95	19.80
	Total cost of materials				**104.55**
	Cartage @ 1 % of A1				1.05
	LABOUR				
1002	Cable jointer	day	0.12	806.00	96.72
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**281.88**
	Add 12% GST (MF= 0.1405)				**39.60**
	TOTAL				**321.48**
	OVERHEADS & PROFIT @ 15 %				**48.22**
	TOTAL				369.70
	Rate per Set				369.70
	Say				**370.00**

9.1.32 4 X 10 sq. mm (25mm)

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2136	Brass compression gland for (35 mm) 4 X 50 sq. mm 1.1 KV grade cable	set	1.00	111.00	111.00
2206	Aluminium lugs for 50 sq. mm cable	each	4.00	7.43	29.72
	Total cost of materials				**140.72**
	Cartage @ 1 % of A1				1.41
	LABOUR				
1002	Cable jointer	day	0.12	806.00	96.72
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**318.41**
	Add 12% GST (MF= 0.1405)				**44.74**
	TOTAL				**363.14**
	OVERHEADS & PROFIT @ 15 %				**54.47**
	TOTAL				417.61
	Rate per Set				417.61
	Say				**418.00**

9.2 Supplying and making outdoor end termination with cast resin compound including aluminium lugs and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.

9.2.1 2 X 16 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2300	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 16 sq. mm 1.1 KV grade cable	set	1.00	625.00	625.00
	Total cost of materials				625.00
	Cartage @ 1 % of A1				6.25
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				998.50
	Add 12% GST (MF= 0.1405)				140.29
	TOTAL				1138.79
	OVERHEADS & PROFIT @ 15 %				170.82
	TOTAL				1309.61
	Rate per Set				1309.61
	Say				1310.00

9.2.2 2 X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2301	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 25 sq. mm 1.1 KV grade cable	set	1.00	701.00	701.00
	Total cost of materials				701.00
	Cartage @ 1 % of A1				7.01
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				1075.26
	Add 12% GST (MF= 0.1405)				151.07
	TOTAL				1226.33
	OVERHEADS & PROFIT @ 15 %				183.95
	TOTAL				1410.28
	Rate per Set				1410.28
	Say				1410.00

9.2.3 2 X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2302	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 35 sq. mm 1.1 KV grade cable	set	1.00	701.00	701.00
	Total cost of materials				**701.00**
	Cartage @ 1 % of A1				7.01
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1075.26**
	Add 12% GST (MF= 0.1405)				**151.07**
	TOTAL				**1226.33**
	OVERHEADS & PROFIT @ 15 %				**183.95**
	TOTAL				1410.28
	Rate per Set				1410.28
	Say				**1410.00**

9.2.4 2 X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2303	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 50 sq. mm 1.1 KV grade cable	set	1.00	701.00	701.00
	Total cost of materials				**701.00**
	Cartage @ 1 % of A1				7.01
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1075.26**
	Add 12% GST (MF= 0.1405)				**151.07**
	TOTAL				**1226.33**
	OVERHEADS & PROFIT @ 15 %				**183.95**
	TOTAL				1410.28
	Rate per Set				1410.28
	Say				**1410.00**

9.2.5 3 X 16 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2304	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 16 sq. mm 1.1 KV grade cable	set	1.00	701.00	701.00
	Total cost of materials				**701.00**
	Cartage @ 1 % of A1				7.01
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1075.26**
	Add 12% GST (MF= 0.1405)				**151.07**
	TOTAL				**1226.33**
	OVERHEADS & PROFIT @ 15 %				**183.95**
	TOTAL				1410.28
	Rate per Set				1410.28
	Say				**1410.00**

9.2.6 3 X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2305	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 25 sq. mm 1.1 KV grade cable	set	1.00	701.00	701.00
	Total cost of materials				**701.00**
	Cartage @ 1 % of A1				7.01
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1075.26**
	Add 12% GST (MF= 0.1405)				**151.07**
	TOTAL				**1226.33**
	OVERHEADS & PROFIT @ 15 %				**183.95**
	TOTAL				1410.28
	Rate per Set				1410.28
	Say				**1410.00**

9.2.7 3 X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2306	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 35 sq. mm 1.1 KV grade cable	set	1.00	701.00	701.00
	Total cost of materials				**701.00**
	Cartage @ 1 % of A1				7.01
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1075.26**
	Add 12% GST (MF= 0.1405)				**151.07**
	TOTAL				**1226.33**
	OVERHEADS & PROFIT @ 15 %				**183.95**
	TOTAL				1410.28
	Rate per Set				1410.28
	Say				**1410.00**

9.2.8 3 X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2307	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 50 sq. mm 1.1 KV grade cable	set	1.00	771.00	771.00
	Total cost of materials				**771.00**
	Cartage @ 1 % of A1				7.71
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1145.96**
	Add 12% GST (MF= 0.1405)				**161.01**
	TOTAL				**1306.97**
	OVERHEADS & PROFIT @ 15 %				**196.05**
	TOTAL				1503.02
	Rate per Set				1503.02
	Say				**1503.00**

9.2.9 3 X 70 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2308	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 70 sq. mm 1.1 KV grade cable	set	1.00	771.00	771.00
	Total cost of materials				**771.00**
	Cartage @ 1 % of A1				7.71
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1145.96**
	Add 12% GST (MF= 0.1405)				**161.01**
	TOTAL				**1306.97**
	OVERHEADS & PROFIT @ 15 %				**196.05**
	TOTAL				1503.02
	Rate per Set				1503.02
	Say				**1503.00**

9.2.10 3 X 95 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2309	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 95 sq. mm 1.1 KV grade cable	set	1.00	878.00	878.00
	Total cost of materials				**878.00**
	Cartage @ 1 % of A1				8.78
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**1371.55**
	Add 12% GST (MF= 0.1405)				**192.70**
	TOTAL				**1564.25**
	OVERHEADS & PROFIT @ 15 %				**234.64**
	TOTAL				1798.89
	Rate per Set				1798.89
	Say				**1799.00**

9.2.11 3 X 120 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2310	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 120 sq. mm 1.1 KV grade cable	set	1.00	878.00	878.00
	Total cost of materials				**878.00**
	Cartage @ 1 % of A1				8.78
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**1371.55**
	Add 12% GST (MF= 0.1405)				**192.70**
	TOTAL				**1564.25**
	OVERHEADS & PROFIT @ 15 %				**234.64**
	TOTAL				1798.89
	Rate per Set				1798.89
	Say				**1799.00**

9.2.12 3 X 150 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2311	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 150 sq. mm 1.1 KV grade cable	set	1.00	878.00	878.00
	Total cost of materials				**878.00**
	Cartage @ 1 % of A1				8.78
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**1371.55**
	Add 12% GST (MF= 0.1405)				**192.70**
	TOTAL				**1564.25**
	OVERHEADS & PROFIT @ 15 %				**234.64**
	TOTAL				1798.89
	Rate per Set				1798.89
	Say				**1799.00**

9.2.13 3 X 185 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2312	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 185 sq. mm 1.1 KV grade cable	set	1.00	1326.00	1326.00
	Total cost of materials				**1326.00**
	Cartage @ 1 % of A1				13.26
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**1824.03**
	Add 12% GST (MF= 0.1405)				**256.28**
	TOTAL				**2080.31**
	OVERHEADS & PROFIT @ 15 %				**312.05**
	TOTAL				2392.36
	Rate per Set				2392.36
	Say				**2392.00**

9.2.14 3 X 225 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2313	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 225 sq. mm 1.1 KV grade cable	set	1.00	1326.00	1326.00
	Total cost of materials				**1326.00**
	Cartage @ 1 % of A1				13.26
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**1824.03**
	Add 12% GST (MF= 0.1405)				**256.28**
	TOTAL				**2080.31**
	OVERHEADS & PROFIT @ 15 %				**312.05**
	TOTAL				2392.36
	Rate per Set				2392.36
	Say				**2392.00**

9.2.15 3 X 240 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2314	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 240 sq. mm 1.1 KV grade cable	set	1.00	1604.00	1604.00
	Total cost of materials				**1604.00**
	Cartage @ 1 % of A1				16.04
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**2104.81**
	Add 12% GST (MF= 0.1405)				**295.73**
	TOTAL				**2400.54**
	OVERHEADS & PROFIT @ 15 %				**360.08**
	TOTAL				2760.62
	Rate per Set				2760.62
	Say				**2761.00**

9.2.16 3 X 300 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2315	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 300 sq. mm 1.1 KV grade cable	set	1.00	1604.00	1604.00
	Total cost of materials				**1604.00**
	Cartage @ 1 % of A1				16.04
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**2104.81**
	Add 12% GST (MF= 0.1405)				**295.73**
	TOTAL				**2400.54**
	OVERHEADS & PROFIT @ 15 %				**360.08**
	TOTAL				2760.62
	Rate per Set				2760.62
	Say				**2761.00**

9.2.17 3½ X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2316	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 25 sq. mm 1.1 KV grade cable	set	1.00	701.00	701.00
	Total cost of materials				**701.00**
	Cartage @ 1 % of A1				7.01
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1075.26**
	Add 12% GST (MF= 0.1405)				**151.07**
	TOTAL				**1226.33**
	OVERHEADS & PROFIT @ 15 %				**183.95**
	TOTAL				1410.28
	Rate per Set				1410.28
	Say				**1410.00**

9.2.18 3½ X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2317	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 35 sq. mm 1.1 KV grade cable	set	1.00	771.00	771.00
	Total cost of materials				**771.00**
	Cartage @ 1 % of A1				7.71
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1145.96**
	Add 12% GST (MF= 0.1405)				**161.01**
	TOTAL				**1306.97**
	OVERHEADS & PROFIT @ 15 %				**196.05**
	TOTAL				1503.02
	Rate per Set				1503.02
	Say				**1503.00**

9.2.19 3½ X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2318	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 50 sq. mm 1.1 KV grade cable	set	1.00	771.00	771.00
	Total cost of materials				**771.00**
	Cartage @ 1 % of A1				7.71
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1145.96**
	Add 12% GST (MF= 0.1405)				**161.01**
	TOTAL				**1306.97**
	OVERHEADS & PROFIT @ 15 %				**196.05**
	TOTAL				1503.02
	Rate per Set				1503.02
	Say				**1503.00**

9.2.20 3½ X 70 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2319	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 70 sq. mm 1.1 KV grade cable	set	1.00	878.00	878.00
	Total cost of materials				**878.00**
	Cartage @ 1 % of A1				8.78
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1254.03**
	Add 12% GST (MF= 0.1405)				**176.19**
	TOTAL				**1430.22**
	OVERHEADS & PROFIT @ 15 %				**214.53**
	TOTAL				1644.75
	Rate per Set				1644.75
	Say				**1645.00**

9.2.21 3½ X 95 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2320	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 95 sq. mm 1.1 KV grade cable	set	1.00	878.00	878.00
	Total cost of materials				**878.00**
	Cartage @ 1 % of A1				8.78
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**1371.55**
	Add 12% GST (MF= 0.1405)				**192.70**
	TOTAL				**1564.25**
	OVERHEADS & PROFIT @ 15 %				**234.64**
	TOTAL				1798.89
	Rate per Set				1798.89
	Say				**1799.00**

9.2.22 3½ X 120 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2321	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 120 sq. mm 1.1 KV grade cable	set	1.00	878.00	878.00
	Total cost of materials				**878.00**
	Cartage @ 1 % of A1				8.78
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**1371.55**
	Add 12% GST (MF= 0.1405)				**192.70**
	TOTAL				**1564.25**
	OVERHEADS & PROFIT @ 15 %				**234.64**
	TOTAL				1798.89
	Rate per Set				1798.89
	Say				**1799.00**

9.2.23 3½ X 150 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2322	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 150 sq. mm 1.1 KV grade cable	set	1.00	1326.00	1326.00
	Total cost of materials				**1326.00**
	Cartage @ 1 % of A1				13.26
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**1824.03**
	Add 12% GST (MF= 0.1405)				**256.28**
	TOTAL				**2080.31**
	OVERHEADS & PROFIT @ 15 %				**312.05**
	TOTAL				2392.36
	Rate per Set				2392.36
	Say				**2392.00**

9.2.24 3½ X 185 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2323	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 185 sq. mm 1.1 KV grade cable	set	1.00	946.00	946.00
	Total cost of materials				**946.00**
	Cartage @ 1 % of A1				9.46
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**1440.23**
	Add 12% GST (MF= 0.1405)				**202.35**
	TOTAL				**1642.58**
	OVERHEADS & PROFIT @ 15 %				**246.39**
	TOTAL				1888.97
	Rate per Set				1888.97
	Say				**1889.00**

9.2.25 3½ X 225 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2324	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 225 sq. mm 1.1 KV grade cable	set	1.00	1604.00	1604.00
	Total cost of materials				**1604.00**
	Cartage @ 1 % of A1				16.04
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**2104.81**
	Add 12% GST (MF= 0.1405)				**295.73**
	TOTAL				**2400.54**
	OVERHEADS & PROFIT @ 15 %				**360.08**
	TOTAL				2760.62
	Rate per Set				2760.62
	Say				**2761.00**

9.2.26 3½ X 240 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2325	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 240 sq. mm 1.1 KV grade cable	set	1.00	1604.00	1604.00
	Total cost of materials				**1604.00**
	Cartage @ 1 % of A1				16.04
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**2104.81**
	Add 12% GST (MF= 0.1405)				**295.73**
	TOTAL				**2400.54**
	OVERHEADS & PROFIT @ 15 %				**360.08**
	TOTAL				2760.62
	Rate per Set				2760.62
	Say				**2761.00**

9.2.27 3½ X 300 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2326	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 300 sq. mm 1.1 KV grade cable	set	1.00	1604.00	1604.00
	Total cost of materials				**1604.00**
	Cartage @ 1 % of A1				16.04
	LABOUR				
1002	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**2354.54**
	Add 12% GST (MF= 0.1405)				**330.81**
	TOTAL				**2685.35**
	OVERHEADS & PROFIT @ 15 %				**402.80**
	TOTAL				3088.15
	Rate per Set				3088.15
	Say				**3088.00**

9.2.28 3½ X 400 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2327	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 400 sq. mm 1.1 KV grade cable	set	1.00	1931.00	1931.00
	Total cost of materials				**1931.00**
	Cartage @ 1 % of A1				19.31
	LABOUR				
1002	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**2684.81**
	Add 12% GST (MF= 0.1405)				**377.22**
	TOTAL				**3062.03**
	OVERHEADS & PROFIT @ 15 %				**459.30**
	TOTAL				3521.33
	Rate per Set				3521.33
	Say				**3521.00**

9.2.29 4 X 16 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2328	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 16 sq. mm 1.1 KV grade cable	set	1.00	701.00	701.00
	Total cost of materials				**701.00**
	Cartage @ 1 % of A1				7.01
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1075.26**
	Add 12% GST (MF= 0.1405)				**151.07**
	TOTAL				**1226.33**
	OVERHEADS & PROFIT @ 15 %				**183.95**
	TOTAL				1410.28
	Rate per Set				1410.28
	Say				**1410.00**

9.2.30 4 X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2329	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 25 sq. mm 1.1 KV grade cable	set	1.00	701.00	701.00
	Total cost of materials				**701.00**
	Cartage @ 1 % of A1				7.01
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1075.26**
	Add 12% GST (MF= 0.1405)				**151.07**
	TOTAL				**1226.33**
	OVERHEADS & PROFIT @ 15 %				**183.95**
	TOTAL				1410.28
	Rate per Set				1410.28
	Say				**1410.00**

9.2.31 4 X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2330	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 35 sq. mm 1.1 KV grade cable	set	1.00	771.00	771.00
	Total cost of materials				**771.00**
	Cartage @ 1 % of A1				7.71
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1145.96**
	Add 12% GST (MF= 0.1405)				**161.01**
	TOTAL				**1306.97**
	OVERHEADS & PROFIT @ 15 %				**196.05**
	TOTAL				1503.02
	Rate per Set				1503.02
	Say				**1503.00**

9.2.32 4 X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2331	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 50 sq. mm 1.1 KV grade cable	set	1.00	771.00	771.00
	Total cost of materials				**771.00**
	Cartage @ 1 % of A1				7.71
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1145.96**
	Add 12% GST (MF= 0.1405)				**161.01**
	TOTAL				**1306.97**
	OVERHEADS & PROFIT @ 15 %				**196.05**
	TOTAL				1503.02
	Rate per Set				1503.02
	Say				**1503.00**

9.3 Supplying and making straight through joint with cast resin compound including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.

9.3.1 2 X 16 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2332	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 16 sq. mm 1.1 KV grade cable	set	1.00	1654.00	1654.00
	Total cost of materials				1654.00
	Cartage @ 1 % of A1				16.54
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				2037.79
	Add 12% GST (MF= 0.1405)				286.31
	TOTAL				2324.10
	OVERHEADS & PROFIT @ 15 %				348.61
	TOTAL				2672.71
	Rate per Set				2672.71
	Say				2673.00

9.2.2 2 X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2333	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 25 sq. Mm 1.1 KV grade cable	set	1.00	1654.00	1654.00
	Total cost of materials				1654.00
	Cartage @ 1 % of A1				16.54
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				2037.79
	Add 12% GST (MF= 0.1405)				286.31
	TOTAL				2324.10
	OVERHEADS & PROFIT @ 15 %				348.61
	TOTAL				2672.71
	Rate per Set				2672.71
	Say				2673.00

9.3.3 2 X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2334	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 35 sq. mm 1.1 KV grade cable	set	1.00	1654.00	1654.00
	Total cost of materials				**1654.00**
	Cartage @ 1 % of A1				16.54
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2037.79**
	Add 12% GST (MF= 0.1405)				**286.31**
	TOTAL				**2324.10**
	OVERHEADS & PROFIT @ 15 %				**348.61**
	TOTAL				2672.71
	Rate per Set				2672.71
	Say				**2673.00**

9.3.4 2 X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2335	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 50 sq. Mm 1.1 KV grade cable	set	1.00	1931.00	1931.00
	Total cost of materials				**1931.00**
	Cartage @ 1 % of A1				19.31
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2317.56**
	Add 12% GST (MF= 0.1405)				**325.62**
	TOTAL				**2643.18**
	OVERHEADS & PROFIT @ 15 %				**396.48**
	TOTAL				3039.66
	Rate per Set				3039.66
	Say				**3040.00**

9.3.5 3 X 16 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2336	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 16 sq. mm 1.1 KV grade cable	set	1.00	1931.00	1931.00
	Total cost of materials				**1931.00**
	Cartage @ 1 % of A1				19.31
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2317.56**
	Add 12% GST (MF= 0.1405)				**325.62**
	TOTAL				**2643.18**
	OVERHEADS & PROFIT @ 15 %				**396.48**
	TOTAL				3039.66
	Rate per Set				3039.66
	Say				**3040.00**

9.3.6 3 X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2337	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 25 sq. Mm 1.1 KV grade cable	set	1.00	1654.00	1654.00
	Total cost of materials				**1654.00**
	Cartage @ 1 % of A1				16.54
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2037.79**
	Add 12% GST (MF= 0.1405)				**286.31**
	TOTAL				**2324.10**
	OVERHEADS & PROFIT @ 15 %				**348.61**
	TOTAL				2672.71
	Rate per Set				2672.71
	Say				**2673.00**

9.3.7 3 X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2338	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 35 sq. mm 1.1 KV grade cable	set	1.00	1654.00	1654.00
	Total cost of materials				**1654.00**
	Cartage @ 1 % of A1				16.54
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2037.79**
	Add 12% GST (MF= 0.1405)				**286.31**
	TOTAL				**2324.10**
	OVERHEADS & PROFIT @ 15 %				**348.61**
	TOTAL				2672.71
	Rate per Set				2672.71
	Say				**2673.00**

9.3.8 3 X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2339	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 50 sq. Mm 1.1 KV grade cable	set	1.00	1931.00	1931.00
	Total cost of materials				**1931.00**
	Cartage @ 1 % of A1				19.31
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2317.56**
	Add 12% GST (MF= 0.1405)				**325.62**
	TOTAL				**2643.18**
	OVERHEADS & PROFIT @ 15 %				**396.48**
	TOTAL				3039.66
	Rate per Set				3039.66
	Say				**3040.00**

9.3.9 3 X 70 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2340	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 70 sq. mm 1.1 KV grade cable	set	1.00	2310.00	2310.00
	Total cost of materials				**2310.00**
	Cartage @ 1 % of A1				23.10
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2700.35**
	Add 12% GST (MF= 0.1405)				**379.40**
	TOTAL				**3079.75**
	OVERHEADS & PROFIT @ 15 %				**461.96**
	TOTAL				3541.71
	Rate per Set				3541.71
	Say				**3542.00**

9.3.10 3 X 95 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2341	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 95 sq. Mm 1.1 KV grade cable	set	1.00	2373.00	2373.00
	Total cost of materials				**2373.00**
	Cartage @ 1 % of A1				23.73
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**2881.50**
	Add 12% GST (MF= 0.1405)				**404.85**
	TOTAL				**3286.35**
	OVERHEADS & PROFIT @ 15 %				**492.95**
	TOTAL				3779.30
	Rate per Set				3779.30
	Say				**3779.00**

9.3.11 3 X 120 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2342	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 120 sq. mm 1.1 KV grade cable	set	1.00	2714.00	2714.00
	Total cost of materials				**2714.00**
	Cartage @ 1 % of A1				27.14
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3225.91**
	Add 12% GST (MF= 0.1405)				**453.24**
	TOTAL				**3679.15**
	OVERHEADS & PROFIT @ 15 %				**551.87**
	TOTAL				4231.02
	Rate per Set				4231.02
	Say				**4231.00**

9.3.12 3 X 150 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2343	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 150 sq. Mm 1.1 KV grade cable	set	1.00	2714.00	2714.00
	Total cost of materials				**2714.00**
	Cartage @ 1 % of A1				27.14
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3225.91**
	Add 12% GST (MF= 0.1405)				**453.24**
	TOTAL				**3679.15**
	OVERHEADS & PROFIT @ 15 %				**551.87**
	TOTAL				4231.02
	Rate per Set				4231.02
	Say				**4231.00**

9.3.13 3 X 185 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2344	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 185 sq. mm 1.1 KV grade cable	set	1.00	3307.00	3307.00
	Total cost of materials				**3307.00**
	Cartage @ 1 % of A1				33.07
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3824.84**
	Add 12% GST (MF= 0.1405)				**537.39**
	TOTAL				**4362.23**
	OVERHEADS & PROFIT @ 15 %				**654.33**
	TOTAL				5016.56
	Rate per Set				5016.56
	Say				**5017.00**

9.3.14 3 X 225 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2345	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 225 sq. Mm 1.1 KV grade cable	set	1.00	3799.00	3799.00
	Total cost of materials				**3799.00**
	Cartage @ 1 % of A1				37.99
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**4321.76**
	Add 12% GST (MF= 0.1405)				**607.21**
	TOTAL				**4928.97**
	OVERHEADS & PROFIT @ 15 %				**739.35**
	TOTAL				5668.32
	Rate per Set				5668.32
	Say				**5668.00**

9.3.15 3 X 240 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2346	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 240 sq. mm 1.1 KV grade cable	set	1.00	3799.00	3799.00
	Total cost of materials				**3799.00**
	Cartage @ 1 % of A1				37.99
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**4321.76**
	Add 12% GST (MF= 0.1405)				**607.21**
	TOTAL				**4928.97**
	OVERHEADS & PROFIT @ 15 %				**739.35**
	TOTAL				5668.32
	Rate per Set				5668.32
	Say				**5668.00**

9.3.16 3 X 300 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2347	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 300 sq. mm 1.1 KV grade cable	set	1.00	4783.00	4783.00
	Total cost of materials				**4783.00**
	Cartage @ 1 % of A1				47.83
	LABOUR				
1002	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**5565.33**
	Add 12% GST (MF= 0.1405)				**781.93**
	TOTAL				**6347.26**
	OVERHEADS & PROFIT @ 15 %				**952.09**
	TOTAL				7299.35
	Rate per Set				7299.35
	Say				**7299.00**

9.3.17 3½ X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2348	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 25 sq. mm 1.1 KV grade cable	set	1.00	1931.00	1931.00
	Total cost of materials				**1931.00**
	Cartage @ 1 % of A1				19.31
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2317.56**
	Add 12% GST (MF= 0.1405)				**325.62**
	TOTAL				**2643.18**
	OVERHEADS & PROFIT @ 15 %				**396.48**
	TOTAL				3039.66
	Rate per Set				3039.66
	Say				3040.00

9.3.18 3½ X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2349	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 35 sq. Mm 1.1 KV grade cable	set	1.00	1931.00	1931.00
	Total cost of materials				**1931.00**
	Cartage @ 1 % of A1				19.31
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2317.56**
	Add 12% GST (MF= 0.1405)				**325.62**
	TOTAL				**2643.18**
	OVERHEADS & PROFIT @ 15 %				**396.48**
	TOTAL				3039.66
	Rate per Set				3039.66
	Say				**3040.00**

9.3.19 3½ X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2350	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 50 sq. mm 1.1 KV grade cable	set	1.00	2310.00	2310.00
	Total cost of materials				**2310.00**
	Cartage @ 1 % of A1				23.10
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2700.35**
	Add 12% GST (MF= 0.1405)				**379.40**
	TOTAL				**3079.75**
	OVERHEADS & PROFIT @ 15 %				**461.96**
	TOTAL				3541.71
	Rate per Set				3541.71
	Say				**3542.00**

9.3.20 3½ X 70 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2351	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 70 sq. Mm 1.1 KV grade cable	set	1.00	2333.00	2333.00
	Total cost of materials				**2333.00**
	Cartage @ 1 % of A1				23.33
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2723.58**
	Add 12% GST (MF= 0.1405)				**382.66**
	TOTAL				**3106.24**
	OVERHEADS & PROFIT @ 15 %				**465.94**
	TOTAL				3572.18
	Rate per Set				3572.18
	Say				**3572.00**

9.3.21 3½ X 95 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2352	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 95 sq. mm 1.1 KV grade cable	set	1.00	2714.00	2714.00
	Total cost of materials				**2714.00**
	Cartage @ 1 % of A1				27.14
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3225.91**
	Add 12% GST (MF= 0.1405)				**453.24**
	TOTAL				**3679.15**
	OVERHEADS & PROFIT @ 15 %				**551.87**
	TOTAL				4231.02
	Rate per Set				4231.02
	Say				**4231.00**

9.3.22 3½ X 120 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2353	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 120 sq. Mm 1.1 KV grade cable	set	1.00	3307.00	3307.00
	Total cost of materials				**3307.00**
	Cartage @ 1 % of A1				33.07
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3824.84**
	Add 12% GST (MF= 0.1405)				**537.39**
	TOTAL				**4362.23**
	OVERHEADS & PROFIT @ 15 %				**654.33**
	TOTAL				5016.56
	Rate per Set				5016.56
	Say				**5017.00**

9.3.23 3½ X 150 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2354	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 150 sq. mm 1.1 KV grade cable	set	1.00	3307.00	3307.00
	Total cost of materials				**3307.00**
	Cartage @ 1 % of A1				33.07
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3824.84**
	Add 12% GST (MF= 0.1405)				**537.39**
	TOTAL				**4362.23**
	OVERHEADS & PROFIT @ 15 %				**654.33**
	TOTAL				5016.56
	Rate per Set				5016.56
	Say				**5017.00**

9.3.24 3½ X 185 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2355	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 185 sq. mm 1.1 KV grade cable	set	1.00	3799.00	3799.00
	Total cost of materials				**3799.00**
	Cartage @ 1 % of A1				37.99
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**4321.76**
	Add 12% GST (MF= 0.1405)				**607.21**
	TOTAL				**4928.97**
	OVERHEADS & PROFIT @ 15 %				**739.35**
	TOTAL				5668.32
	Rate per Set				5668.32
	Say				**5668.00**

9.3.25 3½ X 225 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2356	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 225 sq. mm 1.1 KV grade cable	set	1.00	3875.00	3875.00
	Total cost of materials				**3875.00**
	Cartage @ 1 % of A1				38.75
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**4398.52**
	Add 12% GST (MF= 0.1405)				**617.99**
	TOTAL				**5016.51**
	OVERHEADS & PROFIT @ 15 %				**752.48**
	TOTAL				5768.99
	Rate per Set				5768.99
	Say				**5769.00**

9.3.26 3½ X 240 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2357	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 240 sq. mm 1.1 KV grade cable	set	1.00	4783.00	4783.00
	Total cost of materials				**4783.00**
	Cartage @ 1 % of A1				47.83
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**5315.60**
	Add 12% GST (MF= 0.1405)				**746.84**
	TOTAL				**6062.44**
	OVERHEADS & PROFIT @ 15 %				**909.37**
	TOTAL				6971.81
	Rate per Set				6971.81
	Say				**6972.00**

9.3.27 3½ X 300 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2358	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 300 sq. mm 1.1 KV grade cable	set	1.00	5730.00	5730.00
	Total cost of materials				**5730.00**
	Cartage @ 1 % of A1				57.30
	LABOUR				
1002	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**6521.80**
	Add 12% GST (MF= 0.1405)				**916.31**
	TOTAL				**7438.11**
	OVERHEADS & PROFIT @ 15 %				**1115.72**
	TOTAL				8553.83
	Rate per Set				8553.83
	Say				**8554.00**

9.3.28 3½ X 400 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2359	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 400 sq. mm 1.1 KV grade cable	set	1.00	3076.00	3076.00
	Total cost of materials				**3076.00**
	Cartage @ 1 % of A1				30.76
	LABOUR				
1002	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**3841.26**
	Add 12% GST (MF= 0.1405)				**539.70**
	TOTAL				**4380.96**
	OVERHEADS & PROFIT @ 15 %				**657.14**
	TOTAL				5038.10
	Rate per Set				5038.10
	Say				**5038.00**

9.3.29 4 X 16 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2360	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 16 sq. mm 1.1 KV grade cable	set	1.00	1654.00	1654.00
	Total cost of materials				**1654.00**
	Cartage @ 1 % of A1				16.54
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2037.79**
	Add 12% GST (MF= 0.1405)				**286.31**
	TOTAL				**2324.10**
	OVERHEADS & PROFIT @ 15 %				**348.61**
	TOTAL				2672.71
	Rate per Set				2672.71
	Say				**2673.00**

9.3.30 4 X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2361	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 25 sq. mm 1.1 KV grade cable	set	1.00	1931.00	1931.00
	Total cost of materials				**1931.00**
	Cartage @ 1 % of A1				19.31
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2317.56**
	Add 12% GST (MF= 0.1405)				**325.62**
	TOTAL				**2643.18**
	OVERHEADS & PROFIT @ 15 %				**396.48**
	TOTAL				3039.66
	Rate per Set				3039.66
	Say				**3040.00**

9.3.31 4 X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2362	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 35 sq. mm 1.1 KV grade cable	set	1.00	1931.00	1931.00
	Total cost of materials				1931.00
	Cartage @ 1 % of A1				19.31
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				2317.56
	Add 12% GST (MF= 0.1405)				325.62
	TOTAL				2643.18
	OVERHEADS & PROFIT @ 15 %				396.48
	TOTAL				3039.66
	Rate per Set				3039.66
	Say				3040.00

9.3.32 4 X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2363	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 50 sq. mm 1.1 KV grade cable	set	1.00	2310.00	2310.00
	Total cost of materials				2310.00
	Cartage @ 1 % of A1				23.10
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				2700.35
	Add 12% GST (MF= 0.1405)				379.40
	TOTAL				3079.75
	OVERHEADS & PROFIT @ 15 %				461.96
	TOTAL				3541.71
	Rate per Set				3541.71
	Say				3542.00

9.4 Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.

9.4.1 2 X 16 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2364	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 16 sq. mm 1.1 KV grade cable	set	1.00	1272.75	1272.75
	Total cost of materials				**1272.75**
	Cartage @ 1 % of A1				12.73
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1652.73**
	Add 12% GST (MF= 0.1405)				**232.21**
	TOTAL				**1884.94**
	OVERHEADS & PROFIT @ 15 %				**282.74**
	TOTAL				2167.68
	Rate per Set				2167.68
	Say				**2168.00**

9.3.30 4 X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2365	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 25 sq. Mm 1.1 KV grade cable	set	1.00	1506.75	1506.75
	Total cost of materials				**1506.75**
	Cartage @ 1 % of A1				15.07
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1889.07**
	Add 12% GST (MF= 0.1405)				**265.41**
	TOTAL				**2154.48**
	OVERHEADS & PROFIT @ 15 %				**323.17**
	TOTAL				2477.65
	Rate per Set				2477.65
	Say				**2478.00**

9.4.3 2 X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2366	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 35 sq. mm 1.1 KV grade cable	set	1.00	1506.75	1506.75
	Total cost of materials				**1506.75**
	Cartage @ 1 % of A1				15.07
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1889.07**
	Add 12% GST (MF= 0.1405)				**265.41**
	TOTAL				**2154.48**
	OVERHEADS & PROFIT @ 15 %				**323.17**
	TOTAL				2477.65
	Rate per Set				2477.65
	Say				**2478.00**

9.4.4 2 X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2367	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 50 sq. Mm 1.1 KV grade cable	set	1.00	1506.75	1506.75
	Total cost of materials				**1506.75**
	Cartage @ 1 % of A1				15.07
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1889.07**
	Add 12% GST (MF= 0.1405)				**265.41**
	TOTAL				**2154.48**
	OVERHEADS & PROFIT @ 15 %				**323.17**
	TOTAL				2477.65
	Rate per Set				2477.65
	Say				**2478.00**

9.4.5 3 X 16 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2368	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 16 sq. mm 1.1 KV grade cable	set	1.00	1272.75	1272.75
	Total cost of materials				**1272.75**
	Cartage @ 1 % of A1				12.73
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1652.73**
	Add 12% GST (MF= 0.1405)				**232.21**
	TOTAL				**1884.94**
	OVERHEADS & PROFIT @ 15 %				**282.74**
	TOTAL				2167.68
	Rate per Set				2167.68
	Say				**2168.00**

9.4.6 3 X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2369	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 25 sq. Mm 1.1 KV grade cable	set	1.00	1506.75	1506.75
	Total cost of materials				**1506.75**
	Cartage @ 1 % of A1				15.07
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1889.07**
	Add 12% GST (MF= 0.1405)				**265.41**
	TOTAL				**2154.48**
	OVERHEADS & PROFIT @ 15 %				**323.17**
	TOTAL				2477.65
	Rate per Set				2477.65
	Say				**2478.00**

9.4.7 3 X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2370	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 35 sq. mm 1.1 KV grade cable	set	1.00	1506.75	1506.75
	Total cost of materials				**1506.75**
	Cartage @ 1 % of A1				15.07
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1889.07**
	Add 12% GST (MF= 0.1405)				**265.41**
	TOTAL				**2154.48**
	OVERHEADS & PROFIT @ 15 %				**323.17**
	TOTAL				2477.65
	Rate per Set				2477.65
	Say				**2478.00**

9.4.8 3 X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2371	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 50 sq. Mm 1.1 KV grade cable	set	1.00	1506.75	1506.75
	Total cost of materials				**1506.75**
	Cartage @ 1 % of A1				15.07
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1889.07**
	Add 12% GST (MF= 0.1405)				**265.41**
	TOTAL				**2154.48**
	OVERHEADS & PROFIT @ 15 %				**323.17**
	TOTAL				2477.65
	Rate per Set				2477.65
	Say				**2478.00**

9.4.9 3 X 70 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2372	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 70 sq. mm 1.1 KV grade cable	set	1.00	2175.00	2175.00
	Total cost of materials				**2175.00**
	Cartage @ 1 % of A1				21.75
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2564.00**
	Add 12% GST (MF= 0.1405)				**360.24**
	TOTAL				**2924.24**
	OVERHEADS & PROFIT @ 15 %				**438.64**
	TOTAL				3362.88
	Rate per Set				3362.88
	Say				**3363.00**

9.4.10 3 X 95 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2373	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 95 sq. Mm 1.1 KV grade cable	set	1.00	2175.00	2175.00
	Total cost of materials				**2175.00**
	Cartage @ 1 % of A1				21.75
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**2681.52**
	Add 12% GST (MF= 0.1405)				**376.75**
	TOTAL				**3058.27**
	OVERHEADS & PROFIT @ 15 %				**458.74**
	TOTAL				3517.01
	Rate per Set				3517.01
	Say				**3517.00**

9.4.11 3 X 120 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2374	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 120 sq. mm 1.1 KV grade cable	set	1.00	2946.00	2946.00
	Total cost of materials				**2946.00**
	Cartage @ 1 % of A1				29.46
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3460.23**
	Add 12% GST (MF= 0.1405)				**486.16**
	TOTAL				**3946.39**
	OVERHEADS & PROFIT @ 15 %				**591.96**
	TOTAL				4538.35
	Rate per Set				4538.35
	Say				**4538.00**

9.4.12 3 X 150 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2375	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 150 sq. Mm 1.1 KV grade cable	set	1.00	2946.00	2946.00
	Total cost of materials				**2946.00**
	Cartage @ 1 % of A1				29.46
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3460.23**
	Add 12% GST (MF= 0.1405)				**486.16**
	TOTAL				**3946.39**
	OVERHEADS & PROFIT @ 15 %				**591.96**
	TOTAL				4538.35
	Rate per Set				4538.35
	Say				**4538.00**

9.4.13 3 X 185 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2376	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 185 sq. mm 1.1 KV grade cable	set	1.00	2946.00	2946.00
	Total cost of materials				**2946.00**
	Cartage @ 1 % of A1				29.46
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3460.23**
	Add 12% GST (MF= 0.1405)				**486.16**
	TOTAL				**3946.39**
	OVERHEADS & PROFIT @ 15 %				**591.96**
	TOTAL				4538.35
	Rate per Set				4538.35
	Say				**4538.00**

9.4.14 3 X 225 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2377	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 225 sq. Mm 1.1 KV grade cable	set	1.00	3233.25	3233.25
	Total cost of materials				**3233.25**
	Cartage @ 1 % of A1				32.33
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3750.35**
	Add 12% GST (MF= 0.1405)				**526.92**
	TOTAL				**4277.28**
	OVERHEADS & PROFIT @ 15 %				**641.59**
	TOTAL				4918.87
	Rate per Set				4918.87
	Say				**4919.00**

9.4.15 3 X 240 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2378	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 240 sq. mm 1.1 KV grade cable	set	1.00	3233.25	3233.25
	Total cost of materials				**3233.25**
	Cartage @ 1 % of A1				32.33
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3750.35**
	Add 12% GST (MF= 0.1405)				**526.92**
	TOTAL				**4277.28**
	OVERHEADS & PROFIT @ 15 %				**641.59**
	TOTAL				4918.87
	Rate per Set				4918.87
	Say				**4919.00**

9.4.16 3 X 300 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2379	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 300 sq. mm 1.1 KV grade cable	set	1.00	3882.75	3882.75
	Total cost of materials				**3882.75**
	Cartage @ 1 % of A1				38.83
	LABOUR				
1002	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**4656.08**
	Add 12% GST (MF= 0.1405)				**654.18**
	TOTAL				**5310.26**
	OVERHEADS & PROFIT @ 15 %				**796.54**
	TOTAL				6106.80
	Rate per Set				6106.80
	Say				**6107.00**

9.4.17 3½ X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2380	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 25 sq. mm 1.1 KV grade cable	set	1.00	1506.75	1506.75
	Total cost of materials				**1506.75**
	Cartage @ 1 % of A1				15.07
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1889.07**
	Add 12% GST (MF= 0.1405)				**265.41**
	TOTAL				**2154.48**
	OVERHEADS & PROFIT @ 15 %				**323.17**
	TOTAL				2477.65
	Rate per Set				2477.65
	Say				**2478.00**

9.4.18 3½ X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2381	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 35 sq. Mm 1.1 KV grade cable	set	1.00	1506.75	1506.75
	Total cost of materials				**1506.75**
	Cartage @ 1 % of A1				15.07
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1889.07**
	Add 12% GST (MF= 0.1405)				**265.41**
	TOTAL				**2154.48**
	OVERHEADS & PROFIT @ 15 %				**323.17**
	TOTAL				2477.65
	Rate per Set				2477.65
	Say				**2478.00**

9.4.19 3½ X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2382	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 50 sq. mm 1.1 KV grade cable	set	1.00	1506.75	1506.75
	Total cost of materials				**1506.75**
	Cartage @ 1 % of A1				15.07
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1889.07**
	Add 12% GST (MF= 0.1405)				**265.41**
	TOTAL				**2154.48**
	OVERHEADS & PROFIT @ 15 %				**323.17**
	TOTAL				2477.65
	Rate per Set				2477.65
	Say				**2478.00**

9.4.20 3½ X 70 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2383	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 70 sq. Mm 1.1 KV grade cable	set	1.00	2175.00	2175.00
	Total cost of materials				**2175.00**
	Cartage @ 1 % of A1				21.75
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2564.00**
	Add 12% GST (MF= 0.1405)				**360.24**
	TOTAL				**2924.24**
	OVERHEADS & PROFIT @ 15 %				**438.64**
	TOTAL				3362.88
	Rate per Set				3362.88
	Say				**3363.00**

9.4.21 3½ X 95 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2384	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 95 sq. mm 1.1 KV grade cable	set	1.00	2175.00	2175.00
	Total cost of materials				**2175.00**
	Cartage @ 1 % of A1				21.75
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**2681.52**
	Add 12% GST (MF= 0.1405)				**376.75**
	TOTAL				**3058.27**
	OVERHEADS & PROFIT @ 15 %				**458.74**
	TOTAL				3517.01
	Rate per Set				3517.01
	Say				**3517.00**

9.4.22 3½ X 120 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2385	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 120 sq. mm 1.1 KV grade cable	set	1.00	2946.00	2946.00
	Total cost of materials				**2946.00**
	Cartage @ 1 % of A1				29.46
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3460.23**
	Add 12% GST (MF= 0.1405)				**486.16**
	TOTAL				**3946.39**
	OVERHEADS & PROFIT @ 15 %				**591.96**
	TOTAL				4538.35
	Rate per Set				4538.35
	Say				**4538.00**

9.4.23 3½ X 150 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2386	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 150 sq. mm 1.1 KV grade cable	set	1.00	2946.00	2946.00
	Total cost of materials				**2946.00**
	Cartage @ 1 % of A1				29.46
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3460.23**
	Add 12% GST (MF= 0.1405)				**486.16**
	TOTAL				**3946.39**
	OVERHEADS & PROFIT @ 15 %				**591.96**
	TOTAL				4538.35
	Rate per Set				4538.35
	Say				**4538.00**

9.4.24 3½ X 185 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2387	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 185 sq. mm 1.1 KV grade cable	set	1.00	2946.00	2946.00
	Total cost of materials				**2946.00**
	Cartage @ 1 % of A1				29.46
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3460.23**
	Add 12% GST (MF= 0.1405)				**486.16**
	TOTAL				**3946.39**
	OVERHEADS & PROFIT @ 15 %				**591.96**
	TOTAL				4538.35
	Rate per Set				4538.35
	Say				**4538.00**

9.4.25 3½ X 225 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2388	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 225 sq. mm 1.1 KV grade cable	set	1.00	3233.25	3233.25
	Total cost of materials				**3233.25**
	Cartage @ 1 % of A1				32.33
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3750.35**
	Add 12% GST (MF= 0.1405)				**526.92**
	TOTAL				**4277.28**
	OVERHEADS & PROFIT @ 15 %				**641.59**
	TOTAL				4918.87
	Rate per Set				4918.87
	Say				**4919.00**

9.4.22 3½ X 120 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2389	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 240 sq. mm 1.1 KV grade cable	set	1.00	3233.25	3233.25
	Total cost of materials				**3233.25**
	Cartage @ 1 % of A1				32.33
	LABOUR				
1002	Cable jointer	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
	TOTAL				**3750.35**
	Add 12% GST (MF= 0.1405)				**526.92**
	TOTAL				**4277.28**
	OVERHEADS & PROFIT @ 15 %				**641.59**
	TOTAL				4918.87
	Rate per Set				4918.87
	Say				**4919.00**

9.4.27 3½ X 300 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2390	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 300 sq. mm 1.1 KV grade cable	set	1.00	3882.75	3882.75
	Total cost of materials				**3882.75**
	Cartage @ 1 % of A1				38.83
	LABOUR				
1002	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**4656.08**
	Add 12% GST (MF= 0.1405)				**654.18**
	TOTAL				**5310.26**
	OVERHEADS & PROFIT @ 15 %				**796.54**
	TOTAL				6106.80
	Rate per Set				6106.80
	Say				**6107.00**

9.4.28 3½ X 400 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2391	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 400 sq. Mm 1.1 KV grade cable	set	1.00	5286.00	5286.00
	Total cost of materials				**5286.00**
	Cartage @ 1 % of A1				52.86
	LABOUR				
1002	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**6073.36**
	Add 12% GST (MF= 0.1405)				**853.31**
	TOTAL				**6926.67**
	OVERHEADS & PROFIT @ 15 %				**1039.00**
	TOTAL				7965.67
	Rate per Set				7965.67
	Say				**7966.00**

9.4.29 4 X 16 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2392	Straight through cable jointing kit with heat s hrinkable kit with ferrules for 4 X 16 sq. mm 1.1 KV grade cable	set	1.00	1272.75	1272.75
	Total cost of materials				**1272.75**
	Cartage @ 1 % of A1				12.73
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1652.73**
	Add 12% GST (MF= 0.1405)				**232.21**
	TOTAL				**1884.94**
	OVERHEADS & PROFIT @ 15 %				**282.74**
	TOTAL				2167.68
	Rate per Set				2167.68
	Say				**2168.00**

9.4.30 4 X 25 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2393	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 25 sq. Mm 1.1 KV grade cabl	set	1.00	1506.75	1506.75
	Total cost of materials				**1506.75**
	Cartage @ 1 % of A1				15.07
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1889.07**
	Add 12% GST (MF= 0.1405)				**265.41**
	TOTAL				**2154.48**
	OVERHEADS & PROFIT @ 15 %				**323.17**
	TOTAL				2477.65
	Rate per Set				2477.65
	Say				**2478.00**

9.4.31 4 X 35 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2394	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 35 sq. mm 1.1 KV grade cable	set	1.00	2175.00	2175.00
	Total cost of materials				**2175.00**
	Cartage @ 1 % of A1				21.75
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2564.00**
	Add 12% GST (MF= 0.1405)				**360.24**
	TOTAL				**2924.24**
	OVERHEADS & PROFIT @ 15 %				**438.64**
	TOTAL				3362.88
	Rate per Set				3362.88
	Say				**3363.00**

9.4.32 4 X 50 sq. Mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2395	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 50 sq. Mm 1.1 KV grade cable	set	1.00	2175.00	2175.00
	Total cost of materials				**2175.00**
	Cartage @ 1 % of A1				21.75
	LABOUR				
1002	Cable jointer	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2564.00**
	Add 12% GST (MF= 0.1405)				**360.24**
	TOTAL				**2924.24**
	OVERHEADS & PROFIT @ 15 %				**438.64**
	TOTAL				3362.88
	Rate per Set				3362.88
	Say				**3363.00**

CHAPTER 10 – HV CABLE JOINTING & END TERMINATION

10.1 Supplying and making indoor cable end jointing with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :

10.1.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2413	Indoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	1.00	839.00	839.00
	Total cost of materials				**839.00**
	Cartage @ 1 % of A1				8.39
	LABOUR				
1001	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**1581.89**
	Add 12% GST (MF= 0.1405)				**222.26**
	TOTAL				**1804.15**
	OVERHEADS & PROFIT @ 15 %				**270.62**
	TOTAL				**2074.77**
	Rate per Set				2074.77
	Say				**2075.00**

10.1.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2414	Indoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	1.00	839.00	839.00
	Total cost of materials				**839.00**
	Cartage @ 1 % of A1				8.39
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**2022.59**
	Add 12% GST (MF= 0.1405)				**284.17**
	TOTAL				**2306.76**
	OVERHEADS & PROFIT @ 15 %				**346.01**
	TOTAL				**2652.77**
	Rate per Set				2652.77
	Say				**2653.00**

10.1.3 240 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2415	Indoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	1.00	1225.00	1225.00
	Total cost of materials				**1225.00**
	Cartage @ 1 % of A1				12.25
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**2706.25**
	Add 12% GST (MF= 0.1405)				**380.23**
	TOTAL				**3086.48**
	OVERHEADS & PROFIT @ 15 %				**462.97**
	TOTAL				**3549.45**
	Rate per Set				3549.45
	Say				**3549.00**

10.1.4 300 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2416	Indoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	1.00	1270.00	1270.00
	Total cost of materials				**1270.00**
	Cartage @ 1 % of A1				12.70
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**2751.70**
	Add 12% GST (MF= 0.1405)				**386.61**
	TOTAL				**3138.31**
	OVERHEADS & PROFIT @ 15 %				**470.75**
	TOTAL				**3609.06**
	Rate per Set				3609.06
	Say				**3609.00**

10.2 Supplying and making indoor cable end jointing with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :

10.2.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2417	Outdoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	1.00	2873.00	2873.00
	Total cost of materials				**2873.00**
	Cartage @ 1 % of A1				28.73
	LABOUR				
1001	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**3636.23**
	Add 12% GST (MF= 0.1405)				**510.89**
	TOTAL				**4147.12**
	OVERHEADS & PROFIT @ 15 %				**622.07**
	TOTAL				**4769.19**
	Rate per Set				4769.19
	Say				**4769.00**

10.2.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2418	Outdoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	1.00	2911.00	2911.00
	Total cost of materials				**2911.00**
	Cartage @ 1 % of A1				29.11
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**4115.31**
	Add 12% GST (MF= 0.1405)				**578.20**
	TOTAL				**4693.51**
	OVERHEADS & PROFIT @ 15 %				**704.03**
	TOTAL				**5397.54**
	Rate per Set				5397.54
	Say				**5398.00**

10.2.3 240 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2419	Outdoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	1.00	3296.00	3296.00
	Total cost of materials				**3296.00**
	Cartage @ 1 % of A1				32.96
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**4797.96**
	Add 12% GST (MF= 0.1405)				**674.11**
	TOTAL				**5472.07**
	OVERHEADS & PROFIT @ 15 %				**820.81**
	TOTAL				**6292.88**
	Rate per Set				6292.88
	Say				**6293.00**

10.2.4 300 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2420	Outdoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	1.00	3296.00	3296.00
	Total cost of materials				**3296.00**
	Cartage @ 1 % of A1				32.96
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**4797.96**
	Add 12% GST (MF= 0.1405)				**674.11**
	TOTAL				**5472.07**
	OVERHEADS & PROFIT @ 15 %				**820.81**
	TOTAL				**6292.88**
	Rate per Set				6292.88
	Say				**6293.00**

10.3 Supplying and making straight through cable jointing with cast resin compound, including ferrule and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :

10.3.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2421	Straight through cable jointing kit with cast resin compound with ferrules for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	1.00	2253.00	2253.00
	Total cost of materials				**2253.00**
	Cartage @ 1 % of A1				22.53
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**3450.73**
	Add 12% GST (MF= 0.1405)				**484.83**
	TOTAL				**3935.56**
	OVERHEADS & PROFIT @ 15 %				**590.33**
	TOTAL				**4525.89**
	Rate per Set				4525.89
	Say				**4526.00**

10.3.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2422	Straight through cable jointing kit with cast resin compound with ferrules for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	1.00	2714.00	2714.00
	Total cost of materials				**2714.00**
	Cartage @ 1 % of A1				27.14
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**3916.34**
	Add 12% GST (MF= 0.1405)				**550.25**
	TOTAL				**4466.59**
	OVERHEADS & PROFIT @ 15 %				**669.99**
	TOTAL				**5136.58**
	Rate per Set				5136.58
	Say				**5137.00**

10.3.3 240 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2423	Straight through cable jointing kit with cast resin compound with ferrules for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	1.00	4294.00	4294.00
	Total cost of materials				**4294.00**
	Cartage @ 1 % of A1				42.94
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**5805.94**
	Add 12% GST (MF= 0.1405)				**815.73**
	TOTAL				**6621.67**
	OVERHEADS & PROFIT @ 15 %				**993.25**
	TOTAL				**7614.92**
	Rate per Set				7614.92
	Say				**7615.00**

10.3.4 300 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2424	Straight through cable jointing kit with cast resin compound with ferrules for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	1.00	5088.00	5088.00
	Total cost of materials				**5088.00**
	Cartage @ 1 % of A1				50.88
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**6607.88**
	Add 12% GST (MF= 0.1405)				**928.41**
	TOTAL				**7536.29**
	OVERHEADS & PROFIT @ 15 %				**1130.44**
	TOTAL				**8666.73**
	Rate per Set				8666.73
	Say				**8667.00**

10.4 supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :

10.4.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2437	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	1.00	8468.20	8468.20
	Total cost of materials				**8468.20**
	Cartage @ 1 % of A1				84.68
	LABOUR				
1001	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**9287.38**
	Add 12% GST (MF= 0.1405)				**1304.88**
	TOTAL				**10592.26**
	OVERHEADS & PROFIT @ 15 %				**1588.84**
	TOTAL				**12181.10**
	Rate per Set				12181.10
	Say				**12181.00**

10.4.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2438	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	1.00	10135.45	10135.45
	Total cost of materials				**10135.45**
	Cartage @ 1 % of A1				101.35
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**11412.00**
	Add 12% GST (MF= 0.1405)				**1603.39**
	TOTAL				**13015.39**
	OVERHEADS & PROFIT @ 15 %				**1952.31**
	TOTAL				**14967.70**
	Rate per Set				14967.70
	Say				**14968.00**

10.4.3 240 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2439	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	1.00	10811.45	10811.45
	Total cost of materials				**10811.45**
	Cartage @ 1 % of A1				108.11
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**12388.56**
	Add 12% GST (MF= 0.1405)				**1740.59**
	TOTAL				**14129.16**
	OVERHEADS & PROFIT @ 15 %				**2119.37**
	TOTAL				**16248.53**
	Rate per Set				16248.53
	Say				**16249.00**

10.4.4 300 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2440	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	1.00	10811.45	10811.45
	Total cost of materials				**10811.45**
	Cartage @ 1 % of A1				108.11
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**12388.56**
	Add 12% GST (MF= 0.1405)				**1740.59**
	TOTAL				**14129.16**
	OVERHEADS & PROFIT @ 15 %				**2119.37**
	TOTAL				**16248.53**
	Rate per Set				16248.53
	Say				**16249.00**

10.5 Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :

10.5.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2441	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	1.00	13048.10	13048.10
	Total cost of materials				**13048.10**
	Cartage @ 1 % of A1				130.48
	LABOUR				
1001	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**13913.08**
	Add 12% GST (MF= 0.1405)				**1954.79**
	TOTAL				**15867.87**
	OVERHEADS & PROFIT @ 15 %				**2380.18**
	TOTAL				**18248.05**
	Rate per Set				18248.05
	Say				**18248.00**

10.5.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2442	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	1.00	14009.45	14009.45
	Total cost of materials				**14009.45**
	Cartage @ 1 % of A1				140.09
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**15324.74**
	Add 12% GST (MF= 0.1405)				**2153.13**
	TOTAL				**17477.87**
	OVERHEADS & PROFIT @ 15 %				**2621.68**
	TOTAL				**20099.55**
	Rate per Set				20099.55
	Say				**20100.00**

10.5.3 240 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2443	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	1.00	15753.40	15753.40
	Total cost of materials				**15753.40**
	Cartage @ 1 % of A1				157.53
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**17379.93**
	Add 12% GST (MF= 0.1405)				**2441.88**
	TOTAL				**19821.81**
	OVERHEADS & PROFIT @ 15 %				**2973.27**
	TOTAL				**22795.08**
	Rate per Set				22795.08
	Say				**22795.00**

10.5.4 300 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2444	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	1.00	15753.40	15753.40
	Total cost of materials				**15753.40**
	Cartage @ 1 % of A1				157.53
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**17379.93**
	Add 12% GST (MF= 0.1405)				**2441.88**
	TOTAL				**19821.81**
	OVERHEADS & PROFIT @ 15 %				**2973.27**
	TOTAL				**22795.08**
	Rate per Set				22795.08
	Say				**22795.00**

10.6 Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :

10.6.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2445	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	1.00	20834.45	20834.45
	Total cost of materials				**20834.45**
	Cartage @ 1 % of A1				208.34
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**22217.99**
	Add 12% GST (MF= 0.1405)				**3121.63**
	TOTAL				**25339.62**
	OVERHEADS & PROFIT @ 15 %				**3800.94**
	TOTAL				**29140.56**
	Rate per Set				29140.56
	Say				**29141.00**

10.6.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2446	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	1.00	27585.35	27585.35
	Total cost of materials				**27585.35**
	Cartage @ 1 % of A1				275.85
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**29036.40**
	Add 12% GST (MF= 0.1405)				**4079.61**
	TOTAL				**33116.02**
	OVERHEADS & PROFIT @ 15 %				**4967.40**
	TOTAL				**38083.42**
	Rate per Set				38083.42
	Say				**38083.00**

10.6.3 240 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2447	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	1.00	30169.75	30169.75
	Total cost of materials				**30169.75**
	Cartage @ 1 % of A1				301.70
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**31940.45**
	Add 12% GST (MF= 0.1405)				**4487.63**
	TOTAL				**36428.08**
	OVERHEADS & PROFIT @ 15 %				**5464.21**
	TOTAL				**41892.29**
	Rate per Set				41892.29
	Say				**41892.00**

10.6.4 300 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2448	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	1.00	30169.75	30169.75
	Total cost of materials				**30169.75**
	Cartage @ 1 % of A1				301.70
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**31940.45**
	Add 12% GST (MF= 0.1405)				**4487.63**
	TOTAL				**36428.08**
	OVERHEADS & PROFIT @ 15 %				**5464.21**
	TOTAL				**41892.29**
	Rate per Set				41892.29
	Say				**41892.00**

10.7 Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 33 KV grade as required :

10.7.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2528	Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 70 sq. mm.	set	1.00	14249.95	14249.95
	Total cost of materials				**14249.95**
	Cartage @ 1 % of A1				142.50
	LABOUR				
1001	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**15126.95**
	Add 12% GST (MF= 0.1405)				**2125.34**
	TOTAL				**17252.29**
	OVERHEADS & PROFIT @ 15 %				**2587.84**
	TOTAL				**19840.13**
	Rate per Set				19840.13
	Say				**19840.00**

10.7.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2529	Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 120 sq. mm.	set	1.00	21548.15	21548.15
	Total cost of materials				**21548.15**
	Cartage @ 1 % of A1				215.48
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**22938.83**
	Add 12% GST (MF= 0.1405)				**3222.91**
	TOTAL				**26161.74**
	OVERHEADS & PROFIT @ 15 %				**3924.26**
	TOTAL				**30086.00**
	Rate per Set				30086.00
	Say				**30086.00**

10.7.3 240 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2530	Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 240 sq. mm.	set	1.00	24375.00	24375.00
	Total cost of materials				**24375.00**
	Cartage @ 1 % of A1				243.75
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**26087.75**
	Add 12% GST (MF= 0.1405)				**3665.33**
	TOTAL				**29753.08**
	OVERHEADS & PROFIT @ 15 %				**4462.96**
	TOTAL				**34216.04**
	Rate per Set				34216.04
	Say				**34216.00**

10.8 Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 33 KV grade as required :

10.8.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2531	Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 70 sq. mm.	set	1.00	23099.70	23099.70
	Total cost of materials				**23099.70**
	Cartage @ 1 % of A1				231.00
	LABOUR				
1001	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**24065.20**
	Add 12% GST (MF= 0.1405)				**3381.16**
	TOTAL				**27446.36**
	OVERHEADS & PROFIT @ 15 %				**4116.95**
	TOTAL				**31563.31**
	Rate per Set				31563.31
	Say				**31563.00**

10.8.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2532	Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 120 sq. mm.	set	1.00	29940.95	29940.95
	Total cost of materials				**29940.95**
	Cartage @ 1 % of A1				299.41
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**31415.56**
	Add 12% GST (MF= 0.1405)				**4413.89**
	TOTAL				**35829.45**
	OVERHEADS & PROFIT @ 15 %				**5374.42**
	TOTAL				**41203.87**
	Rate per Set				41203.87
	Say				**41204.00**

10.8.3 240 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2533	Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 240 sq. mm.	set	1.00	52629.20	52629.20
	Total cost of materials				**52629.20**
	Cartage @ 1 % of A1				526.29
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**54624.49**
	Add 12% GST (MF= 0.1405)				**7674.74**
	TOTAL				**62299.23**
	OVERHEADS & PROFIT @ 15 %				**9344.88**
	TOTAL				**71644.11**
	Rate per Set				71644.11
	Say				**71644.00**

10.9 Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 33 KV grade as required :

10.9.1 70 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2534	Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 70 sq. mm.	set	1.00	40671.80	40671.80
	Total cost of materials				**40671.80**
	Cartage @ 1 % of A1				406.72
	LABOUR				
1001	Cable jointer	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**41813.02**
	Add 12% GST (MF= 0.1405)				**5874.73**
	TOTAL				**47687.75**
	OVERHEADS & PROFIT @ 15 %				**7153.16**
	TOTAL				**54840.91**
	Rate per Set				54840.91
	Say				**54841.00**

10.9.2 120 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2535	Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 120 sq. mm.	set	1.00	51398.10	51398.10
	Total cost of materials				**51398.10**
	Cartage @ 1 % of A1				513.98
	LABOUR				
1001	Cable jointer	day	0.80	806.00	644.80
1007	Khallasi	day	0.80	663.00	530.40
	TOTAL				**53087.28**
	Add 12% GST (MF= 0.1405)				**7458.76**
	TOTAL				**60546.04**
	OVERHEADS & PROFIT @ 15 %				**9081.91**
	TOTAL				**69627.95**
	Rate per Set				69627.95
	Say				**69628.00**

10.9.3 240 sq. mm

Details of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2536	Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 240 sq. mm.	set	1.00	72995.00	72995.00
	Total cost of materials				**72995.00**
	Cartage @ 1 % of A1				729.95
	LABOUR				
1001	Cable jointer	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**75193.95**
	Add 12% GST (MF= 0.1405)				**10564.75**
	TOTAL				**85758.70**
	OVERHEADS & PROFIT @ 15 %				**12863.80**
	TOTAL				**98622.50**
	Rate per Set				98622.50
	Say				**98622.00**

CHAPTER 11 – POLE ERECTION

11.1 Erection of RCC/ PCC pole of following length in brick ballast and ramming the foundation, finishing with 150mm thick cement concrete (1:3:6) layer on top with including excavation and refilling etc as required.

11.1.1 Above 4.5 meter and upto 6.5 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2947	Bricks ballast =0.44+0.02 (wastage@5%)=0.46 cum	cum	0.46	675.00	310.50
	Total cost of materials				**310.50**
	Cartage @ 1 % of A1				3.11
	LABOUR				
1010	Mason, Grade 2	day	0.33	734.00	242.22
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	3.66	663.00	2426.58
1013	Bhisti	day	0.16	663.00	106.08
	TOTAL				**3354.47**
	Add 12% GST (MF= 0.1405)				**471.30**
	TOTAL				**3825.77**
	OVERHEADS & PROFIT @ 15 %				**573.87**
	TOTAL				**4399.64**
14.4	Excavation including refilling as required	cum	1.07	654.00	699.78
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	6670.25	466.92
	TOTAL				5566.34
	Rate per Each				5566.34
	Say				**5566.00**

11.1.2 Above 6.5 meter and upto 8.0 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2947	Bricks ballast = 0.57+ 0.03(wastage @5%) = 0.60 cum	cum	0.60	675.00	405.00
	Total cost of materials				**405.00**
	Cartage @ 1 % of A1				4.05
	LABOUR				
1010	Mason, Grade 2	day	0.33	734.00	242.22
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	4.00	663.00	2652.00

1013	Bhisti	day	0.16	663.00	106.08
	TOTAL				**3675.33**
	Add 12% GST (MF= 0.1405)				**516.38**
	TOTAL				**4191.71**
	OVERHEADS & PROFIT @ 15 %				**628.76**
	TOTAL				4820.47
14.4	Excavation including refilling as required	cum	1.36	654.00	889.44
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	6670.25	466.92
	TOTAL				6176.83
	Rate per Each				6176.83
	Say				**6177.00**

11.1.3 Above 8.0 meter and upto 11.0 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2947	Bricks ballast = 0.70+ 0.04 (wastage @5%) = 0.74 cum	cum	0.74	675.00	499.50
	Total cost of materials				**499.50**
	Cartage @ 1 % of A1				5.00
	LABOUR				
1010	Mason, Grade 2	day	0.33	734.00	242.22
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	5.00	663.00	3315.00
1013	Bhisti	day	0.16	663.00	106.08
	TOTAL				**4433.78**
	Add 12% GST (MF= 0.1405)				**622.95**
	TOTAL				**5056.72**
	OVERHEADS & PROFIT @ 15 %				**758.51**
	TOTAL				**5815.23**
14.4	Excavation including refilling as required	cum	1.73	654.00	1131.42
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	6670.25	466.92
	TOTAL				7413.57
	Rate per Each				7413.57
	Say				**7414.00**

11.1.4 Above 11.00 meter and upto 13.00 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2947	Bricks ballast = 0.88+ 0.04 (wastage @5%) = 0.92 cum Total cost of materials	cum	0.92	675.00	621.00
	Total cost of materials				**621.00**
	Cartage @ 1 % of A1				6.21
	LABOUR				
1010	Mason, Grade 2	day	0.33	734.00	242.22
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	5.33	663.00	3533.79
1013	Bhisti	day	0.16	663.00	106.08
	TOTAL				**4775.28**
	Add 12% GST (MF= 0.1405)				**670.93**
	TOTAL				**5446.21**
	OVERHEADS & PROFIT @ 15 %				**816.93**
	TOTAL				**6263.14**
14.4	Excavation including refilling as required	cum	2.15	654.00	1406.10
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	6670.25	466.92
	TOTAL				8136.16
	Rate per Each				8136.16
	Say				**8136.00**

11.2 Erection of RCC/ PCC pole strut in brick ballast and ramming the foundation including excavation and refilling and secured with holding clamps, bolts, nuts, etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2947	Bricks ballast = 0.53+ 0.03 (wastage @5%) = 0.56 cum	cum	0.56	675.00	378.00
2924	Clamps, bolts, nuts etc.	set	1.00	117.00	117.00
	Total cost of materials				**495.00**
	Cartage @ 1 % of A1				4.95
	LABOUR				

1010	Mason, Grade 2	day	0.33	734.00	242.22
1003	Lineman	day	0.50	806.00	403.00
1007	Khallasi	day	7.50	663.00	4972.50
1013	Bhisti	day	0.16	663.00	106.08
	TOTAL				6223.75
	Add 12% GST (MF= 0.1405)				874.44
	TOTAL				7098.19
	OVERHEADS & PROFIT @ 15 %				1064.73
	TOTAL				8162.92
14.4	Excavation including refilling as required	cum	1.34	654.00	876.36
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.080	6670.25	533.62
	TOTAL				9572.90
	Rate per Each				9572.90
	Say				9573.00

11.3 Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

11.3.1 Above 4.5 meter and upto 6.5 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1010	Mason, Grade 2	day	0.33	734.00	242.22
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	3.00	663.00	1989.00
	TOTAL				**2497.20**
	Add 12% GST (MF= 0.1405)				**350.86**
	TOTAL				**2848.06**
	OVERHEADS & PROFIT @ 15 %				**427.21**
	TOTAL				**3275.27**
14.4	Excavation including refilling as required	cum	0.68	654.00	444.72
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.210	6670.25	1400.75
	TOTAL				5120.74
	Rate per Each				5120.74
	Say				**5121.00**

11.3.2 Above 6.5 meter and upto 8.0 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1010	Mason, Grade 2	day	0.33	734.00	242.22
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	3.33	663.00	2207.79
	TOTAL				2715.99
	Add 12% GST (MF= 0.1405)				381.60
	TOTAL				3097.59
	OVERHEADS & PROFIT @ 15 %				464.64
	TOTAL				3562.23
14.4	Excavation including refilling as required	cum	0.87	654.00	568.98
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.290	6670.25	1934.37
	TOTAL				6065.58
	Rate per Each				6065.58
	Say				6066.00

11.3.3 Above 8.0 meter and upto 10.0 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1010	Mason, Grade 2	day	0.33	734.00	242.22
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	3.66	663.00	2426.58
	TOTAL				**2934.78**
	Add 12% GST (MF= 0.1405)				**412.34**
	TOTAL				**3347.12**
	OVERHEADS & PROFIT @ 15 %				**502.07**
	TOTAL				**3849.19**
14.4	Excavation including refilling as required	cum	1.06	654.00	693.24
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.38	6670.25	2534.70
	TOTAL				7077.13
	Rate per Each				7077.13
	Say				**7077.00**

11.3.4 Above 10.00 meter and upto 12.00 meter

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1010	Mason, Grade 2	day	0.33	734.00	242.22
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**3160.20**
	Add 12% GST (MF= 0.1405)				**444.01**
	TOTAL				**3604.21**
	OVERHEADS & PROFIT @ 15 %				**540.63**
	TOTAL				**4144.84**
14.4	Excavation including refilling as required	cum	1.27	654.00	830.58
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.48	6670.25	3201.72
	TOTAL				8177.14
	Rate per Each				8177.14
	Say				**8177.00**

11.4 Erection of steel tubular or rail pole strut in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and secured with holding clamps, bolts, nuts, etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2924	Clamps, bolts, nuts etc.	set	1.00	117.00	117.00
	Total cost of materials				**117.00**
	Cartage @ 1 % of A1				1.17
	LABOUR				
1010	Mason, Grade 2	day	0.33	734.00	242.22
1003	Lineman	day	0.50	806.00	403.00
1007	Khallasi	day	5.50	663.00	3646.50
	TOTAL				**4409.89**
	Add 12% GST (MF= 0.1405)				**619.59**
	TOTAL				**5029.48**
	OVERHEADS & PROFIT @ 15 %				**754.42**
	TOTAL				**5783.90**

14.4	Excavation including refilling as required	cum	0.95	654.00	621.30
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.34	6670.25	2267.89
	TOTAL				8673.09
	Rate per Each				8673.09
	Say				8673.00

11.5 Providing and making steel pole collar with cement concrete (1 cement : 3 coarse sand : 6 stone aggregate 20mm) of specified size and shape including form work, plastering if required, curing etc as required. (volume of pole/ pipe not to be deducted)

Details of cost for 1 cum

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2950	Stone aggregate (single size) 20mm nominal size	cum	0.70	1620.00	1134.00
2951	Stone aggregate (single size) 10mm nominal size	cum	0.24	1620.00	388.80
2952	Coarse sand (Zone III)	cum	0.47	1710.00	803.70
2948	Cement	tonne	0.22	7200.00	1584.00
	Total cost of materials				**3910.50**
	Cartage @ 1 % of A1				39.11
	LABOUR				
1010	Mason, Grade 2	day	0.20	734.00	146.80
1012	Beldar/ coolie	day	1.80	663.00	1193.40
1013	Bhisti	day	1.00	663.00	663.00
9999	Sundries	L.S.	70.00	2.70	189.00
	TOTAL				**6141.81**
	Add 1% for water charges				61.03
	TOTAL				**6202.83**
	Add 12% GST (MF= 0.1405)				**871.50**
	TOTAL				**7074.33**
	OVERHEADS & PROFIT @ 15 %				**1061.15**
	TOTAL				**8135.48**
	Rate per cum				8135.48
	Say				**8135.00**

11.6 Supplying and embedding following dia G.I. pipe (medium class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape complete as required.

11.6.1 32 mm dia

Details of cost for 2 meter long 1 No pipe

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2831	32 mm dia. G.I. pipe (medium class)	meter	2.00	334.80	669.60
	Total cost of materials				**669.60**
	Cartage @ 1 % of A1				6.70
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.05	663.00	33.15
9999	Bending charges	L.S.	20.00	2.70	54.00
	TOTAL				**800.15**
	Add 12% GST (MF= 0.1405)				**112.42**
	TOTAL				**912.57**
	OVERHEADS & PROFIT @ 15 %				**136.88**
	Cost for 2 meters				**1049.45**
	Rate per meter				524.72
	Say				**525.00**

11.6.2 40 mm dia

Details of cost for 2 meter long 1 No pipe

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2826	40 mm dia. G.I. pipe (medium class)	meter	2.00	383.40	766.80
	Total cost of materials				**766.80**
	Cartage @ 1 % of A1				7.67
	LABOUR				
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.05	663.00	33.15
9999	Bending charges	L.S.	20.00	2.70	54.00
	TOTAL				**898.32**
	Add 12% GST (MF= 0.1405)				**126.21**
	TOTAL				**1024.53**
	OVERHEADS & PROFIT @ 15 %				**153.68**
	Cost for 2 meters				**1178.21**
	Rate per meter				589.11
	Say				**589.00**

CHAPTER 12 – MV OVER HEAD LINE WORK

12.1 Supplying and erection of stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle (20 mm X 60 cm), 7/ 4.00 mm dia G.I. stay wire and strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	Set	1.00	432.00	432.00
2602	Stay wire (7/4.00 mm dia.) = 7.62 + 0.23 (wastage @ 3%) = 7.85 kg	kg	7.85	37.00	290.45
2618	Stay clamp	set	1.00	50.40	50.40
2604	Turn buckle (20 mm X 60 cm)	each	1.00	158.00	158.00
2605	Strain insulator	each	1.00	158.00	158.00
	Total cost of materials				**1088.85**
	Cartage @ 1 % of A1				10.89
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**2247.51**
	Add 12% GST (MF= 0.1405)				**315.77**
	TOTAL				**2563.28**
	OVERHEADS & PROFIT @ 15 %				**384.49**
	TOTAL				**2947.77**
14.4	Excavation including refilling as required	cum	1.20	654.00	784.80
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				5600.24
	Rate per Each				5600.24
	Say				**5600.00**

12.2 Supplying and erection of stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle (20 mm X 60 cm), 7/ 3.15 mm dia G.I. stay wire and strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	Set	1.00	432.00	432.00
2603	Stay wire (7/3.15 mm dia.) = 4.92 + 0.25 (wastage @ 5%) = 5.17 kg	kg	5.17	37.00	191.29
2618	Stay clamp	set	1.00	50.40	50.40
2604	Turn buckle (20 mm X 60 cm)	each	1.00	158.00	158.00
2605	Strain insulator	each	1.00	158.00	158.00
	Total cost of materials				**989.69**
	Cartage @ 1 % of A1				9.90
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**2147.36**
	Add 12% GST (MF= 0.1405)				**301.70**
	TOTAL				**2449.06**
	OVERHEADS & PROFIT @ 15 %				**367.36**
	TOTAL				**2816.42**
14.4	Excavation including refilling as required	cum	1.20	654.00	784.80
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				5468.89
	Rate per Each				5468.89
	Say				**5469.00**

12.3 Supplying and erection of stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, bow tightener, 7/ 4.00 mm dia G.I. stay wire and strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	432.00	432.00
2603	Stay wire (7/3.15 mm dia.) = 7.62 + 0.23 (wastage @ 3%) = 7.85 kg	kg	7.85	37.00	290.45

2618	Stay clamp	set	1.00	50.40	50.40
2606	Bow tightner	each	1.00	16.00	16.00
2605	Strain insulator	each	1.00	158.00	158.00
	Total cost of materials				**946.85**
	Cartage @ 1 % of A1				9.47
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**2104.09**
	Add 12% GST (MF= 0.1405)				**295.62**
	TOTAL				**2399.71**
	OVERHEADS & PROFIT @ 15 %				**359.96**
	TOTAL				**2759.67**
14.4	Excavation including refilling as required	cum	1.20	654.00	784.80
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				5412.14
	Rate per Each				5412.14
	Say				**5412.00**

12.4 Supplying and erection of stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, bow tightener, 7/ 3.15 mm dia G.I. stay wire and strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	432.00	432.00
2603	Stay wire (7/3.15 mm dia.) = 4.92 + 0.15 (Wastage @3%) = 5.07kg	kg	5.07	37.00	187.59
2618	Stay clamp	set	1.00	50.40	50.40
2606	Bow tightner	each	1.00	16.00	16.00
2605	Strain insulator	each	1.00	158.00	158.00
	Total cost of materials				**843.99**
	Cartage @ 1 % of A1				8.44
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**2000.20**
	Add 12% GST (MF= 0.1405)				**281.03**
	TOTAL				**2281.23**

	OVERHEADS & PROFIT @ 15 %				**342.18**
	TOTAL				**2623.41**
14.4	Excavation including refilling as required	cum	1.20	654.00	784.80
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				5275.88
	Rate per Each				5275.88
	Say				**5276.00**

12.5 Supplying and erection of bow stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle (20 mm X 60 cm), 7/ 4.00 mm dia G.I. stay wire and strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size 50 mm X 50 mm X 6 mm angle iron with 50 mm dia pulley fixed at one end of the brace as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	432.00	432.00
2603	Stay wire (7/3.15 mm dia.) = 7.62 + 0.23 (wastage @ 3%) = 7.85 kg	kg	7.85	37.00	290.45
2618	Stay clamp	set	2.00	50.40	100.80
2604	Turn buckle (20 mm X 60 cm)	each	1.00	158.00	158.00
2605	Strain insulator	each	1.00	158.00	158.00
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	metre	0.60	169.00	101.40
2923	Pulley of 50 mm dia	each	1.00	90.00	90.00
	Total cost of materials				**1330.65**
	Cartage @ 1 % of A1				13.31
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**2528.43**
	Add 12% GST (MF= 0.1405)				**355.24**
	TOTAL				**2883.67**
	OVERHEADS & PROFIT @ 15 %				**432.55**
	TOTAL				**3316.22**
14.4	**Excavation including refilling as required**	cum	1.20	654.00	784.80

14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				5968.69
	Rate per Each				5968.69
	Say				**5969.00**

12.6 Supplying and erection of bow stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle (20 mm X 60 cm), 7/ 3.15 mm dia G.I. stay wire and strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size 50 mm X 50 mm X 6 mm angle iron with 50 mm dia pulley fixed at one end of the brace as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	432.00	432.00
2603	Stay wire (7/3.15 mm dia.) = 4.92 + 0.15 (Wastage @3%) = 5.07kg	kg	5.07	37.00	187.59
2618	Stay clamp	set	2.00	50.40	100.80
2604	Turn buckle (20 mm X 60 cm)	each	1.00	158.00	158.00
2605	Strain insulator	each	1.00	158.00	158.00
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	metre	0.60	169.00	101.40
2923	Pulley of 50 mm dia	each	1.00	90.00	90.00
	Total cost of materials				**1227.79**
	Cartage @ 1 % of A1				12.28
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**2424.54**
	Add 12% GST (MF= 0.1405)				**340.65**
	TOTAL				**2765.19**
	OVERHEADS & PROFIT @ 15 %				**414.78**
	TOTAL				**3179.97**
14.4	Excavation including refilling as required	cum	1.20	654.00	784.80
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				5832.44
	Rate per Each				5832.44
	Say				**5832.00**

12.7 Supplying and erection of bow stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, bow tightener), 7/ 4.00 mm dia G.I. stay wire and strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size 50 mm X 50 mm X 6 mm angle iron with 50 mm dia pulley fixed at one end of the brace as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	432.00	432.00
2603	Stay wire (7/3.15 mm dia.) = 7.62 + 0.23 (wastage @ 3%) = 7.85 kg	kg	7.85	37.00	290.45
2618	Stay clamp	set	2.00	50.40	100.80
2606	Bow tightner	each	1.00	16.00	16.00
2605	Strain insulator	each	1.00	158.00	158.00
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	metre	0.60	169.00	101.40
2923	Pulley of 50 mm dia	each	1.00	90.00	90.00
	Total cost of materials				**1188.65**
	Cartage @ 1 % of A1				11.89
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**2385.01**
	Add 12% GST (MF= 0.1405)				**335.09**
	TOTAL				**2720.10**
	OVERHEADS & PROFIT @ 15 %				**408.01**
	TOTAL				**3128.11**
14.4	Excavation including refilling as required	cum	1.20	654.00	784.80
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				5780.58
	Rate per Each				5780.58
	Say				**5781.00**

12.8 Supplying and erection of bow stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, bow tightener), 7/ 3.15mm dia G.I. stay wire and strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and also with 0.6 m long brace of size 50 mm X 50 mm X 6 mm angle iron with 50 mm dia pulley fixed at one end of the brace as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	432.00	432.00
2603	Stay wire (7/3.15 mm dia.) = 4.92 + 0.15 (Wastage @3%) = 5.07kg	kg	5.07	37.00	187.59
2618	Stay clamp	set	2.00	50.40	100.80
2606	Bow tightner	each	1.00	16.00	16.00
2605	Strain insulator	each	1.00	158.00	158.00
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	metre	0.60	169.00	101.40
2923	Pulley of 50 mm dia	each	1.00	90.00	90.00
	Total cost of materials				**1085.79**
	Cartage @ 1 % of A1				10.86
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**2281.12**
	Add 12% GST (MF= 0.1405)				**320.50**
	TOTAL				**2601.61**
	OVERHEADS & PROFIT @ 15 %				**390.24**
	TOTAL				**2991.85**
14.4	Excavation including refilling as required	cum	1.20	654.00	784.80
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				5644.32
	Rate per Each				5644.32
	Say				**5644.00**

12.9 Erection of stay set complete (galvanised) in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**1147.77**
	Add 12% GST (MF= 0.1405)				**161.26**
	TOTAL				**1309.03**
	OVERHEADS & PROFIT @ 15 %				**196.35**
	TOTAL				**1505.38**
14.4	Excavation including refilling as required	cum	1.20	654.00	784.80
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				4157.85
	Rate per Each				4157.85
	Say				**4158.00**

12.10 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) cross arm for 2 wire over head line complete with clamps, bolts, nuts and washer etc including drilling of holes for insulator pins etc (as per drawing) and painting with primer and finished paint as required .

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)= 0.55mtr = 3.93kg + 0.08 (wastage @ 2%) = 4.01 kg	kg	4.01	56.00	224.56
2813	50 mm X 6 mm flat iron = 0.9 + 0.02 (wastage @ 2%) = 0.92 kg	kg	0.92	56.00	51.52
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	9.00	18.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**301.28**
	Cartage @ 1 % of A1				3.01
	LABOUR				

1005	Fitter, Grade 2	day	0.12	734.00	88.08
1009	Blacksmith, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.18	663.00	119.34
1084	Drilling holes	each	6.00	6.00	36.00
	TOTAL				**591.75**
	Add 12% GST (MF= 0.1405)				**83.14**
	TOTAL				**674.89**
	OVERHEADS & PROFIT @ 15 %				**101.23**
	TOTAL				776.12
	Rate per Set				776.12
	Say				**776.00**

12.11 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) cross arm for 4 wire over head line complete with clamps, bolts, nuts and washer etc including drilling of holes for insulator pins etc (as per drawing) and painting with primer and finished paint as required .

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)= 1.15 mtr = 8.21kg + 0.16 (wastage @ 2%) = 8.37 kg	kg	8.37	56.00	468.72
2813	50 mm X 6 mm flat iron = 0.9 + 0.02 (wastage @ 2%) = 0.92 kg	kg	0.92	56.00	51.52
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	9.00	18.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**545.44**
	Cartage @ 1 % of A1				5.45
	LABOUR				
1005	Fitter, Grade 2	day	0.21	734.00	154.14
1009	Blacksmith, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.25	663.00	165.75
1084	Drilling holes	each	10.00	6.00	60.00
	TOTAL				**974.82**
	Add 12% GST (MF= 0.1405)				**136.96**
	TOTAL				**1111.79**
	OVERHEADS & PROFIT @ 15 %				**166.77**
	TOTAL				1278.56
	Rate per Set				1278.56
	Say				**1279.00**

12.12 Erection of angle iron/ channel iron cross arm on wood/ RCC/ PCC/ steel tubular/ rail pole etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.11	806.00	88.66
1007	Khallasi	day	0.22	663.00	145.86
	TOTAL				**234.52**
	Add 12% GST (MF= 0.1405)				**32.95**
	TOTAL				**267.47**
	OVERHEADS & PROFIT @ 15 %				**40.12**
	TOTAL				307.59
	Rate per Set				307.59
	Say				**308.00**

12.13 Supplying and erection of galvanised 'D' iron clamps complete with shackle insulator (75 mm X 90 mm),G. I. bolts, nuts and washers, coach screws etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2635	D' iron clamp (with coach screws)	each	1.00	61.20	61.20
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	set	1.00	29.00	29.00
	Total cost of materials				**90.20**
	Cartage @ 1 % of A1				0.90
	LABOUR				
1003	Lineman	day	0.04	806.00	32.24
1005	Fitter, Grade 2	day	0.04	734.00	29.36
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**205.74**
	Add 12% GST (MF= 0.1405)				**28.91**
	TOTAL				**234.65**
	OVERHEADS & PROFIT @ 15 %				**35.20**
	TOTAL				269.85
	Rate per Set				269.85
	Say				**270.00**

12.14 Supplying and erection of galvanised 'D' iron clamps complete with shackle insulator (100 mm X 110 mm), G.I. bolts, nuts and washers, coach screws etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2635	D' iron clamp (with coach screws)	each	1.00	61.20	61.20
2608	Shackle insulator (100 mm X 110 mm) with G.I. bolts and nuts	set	1.00	50.00	50.00
	Total cost of materials				**111.20**
	Cartage @ 1 % of A1				1.11
	LABOUR				
1003	Lineman	day	0.04	806.00	32.24
1005	Fitter, Grade 2	day	0.04	734.00	29.36
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**226.95**
	Add 12% GST (MF= 0.1405)				**31.89**
	TOTAL				**258.84**
	OVERHEADS & PROFIT @ 15 %				**38.83**
	TOTAL				297.67
	Rate per Set				297.67
	Say				**298.00**

12.15 Erection of galvanised 'D' iron clamps and insulator on pole as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Add 12% GST (MF= 0.1405)				**8.26**
	TOTAL				**67.02**
	OVERHEADS & PROFIT @ 15 %				**10.05**
	TOTAL				**77.07**
	Rate per Set				77.07
	Say				**77.00**

12.16 Supplying and erection of 75 mm X 90 mm shackle insulator with G. I. Bolt, nuts and straps etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	Set	1.00	29.00	29.00
2665	G.I. strap for shackle insulator	set	1.00	43.20	43.20
	Total cost of materials				72.20
	Cartage @ 1 % of A1				0.72
	LABOUR				
1003	Lineman	day	0.03	806.00	24.18
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				136.88
	Add 12% GST (MF= 0.1405)				19.23
	TOTAL				156.11
	OVERHEADS & PROFIT @ 15 %				23.42
	TOTAL				179.53
	Rate per Set				179.53
	Say				180.00

12.17 Supplying and erection of 100 mm X 110 mm shackle insulator with G. I. Bolt, nuts and straps etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2608	Shackle insulator (100 mm X 110 mm) with G.I. bolts and nuts	set	1.00	50.00	50.00
2665	G.I. strap for shackle insulator	set	1.00	43.20	43.20
	Total cost of materials				**93.20**
	Cartage @ 1 % of A1				0.93
	LABOUR				
1003	Lineman	day	0.03	806.00	24.18
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**158.09**
	Add 12% GST (MF= 0.1405)				**22.21**
	TOTAL				**180.30**
	OVERHEADS & PROFIT @ 15 %				**27.05**
	TOTAL				207.35
	Rate per Set				207.35
	Say				**207.00**

12.18 Supplying and erection of 100 mm X 65 mm pin insulator complete with G. I. Spindle and nuts etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2609	Pin insulator (100 mm X 65 mm) with G.I. spindle and nuts	Set	1.00	50.00	50.00
	Total cost of materials				**50.00**
	Cartage @ 1 % of A1				0.50
	LABOUR				
1003	Lineman	day	0.03	806.00	24.18
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**114.46**
	Add 12% GST (MF= 0.1405)				**16.08**
	TOTAL				**130.54**
	OVERHEADS & PROFIT @ 15 %				**19.58**
	TOTAL				**150.12**
	Rate per Set				150.12
	Say				**150.00**

12.19 Supplying and erection of 100 mm X 80 mm pin insulator complete with G. I. Spindle and nuts etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2610	Pin insulator (100 mm X 80 mm) with G.I. spindle and nuts	set	1.00	50.00	50.00
	Total cost of materials				**50.00**
	Cartage @ 1 % of A1				0.50
	LABOUR				
1003	Lineman	day	0.03	806.00	24.18
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**114.46**
	Add 12% GST (MF= 0.1405)				**16.08**
	TOTAL				**130.54**
	OVERHEADS & PROFIT @ 15 %				**19.58**
	TOTAL				**150.12**
	Rate per Set				150.12
	Say				**150.00**

12.20 Erection of LV/MV shackle/pin insulator etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.03	806.00	24.18
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**63.96**
	Add 12% GST (MF= 0.1405)				**8.99**
	TOTAL				**72.95**
	OVERHEADS & PROFIT @ 15 %				**10.94**
	TOTAL				**83.89**
	Rate per Set				83.89
	Say				**84.00**

12.21 Erection of ACSR conductor of 7/2.11 mm to 7/3.00 mm diameter including binding etc. as required.

Details of cost for 133 kg

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	5.00	806.00	4030.00
1007	Khallasi	day	25.00	663.00	16575.00
	TOTAL				**20605.00**
	Add 12% GST (MF= 0.1405)				**2895.00**
	TOTAL				**23500.00**
	OVERHEADS & PROFIT @ 15 %				**3525.00**
	Cost for 133 Kg				**27025.00**
	Rate per Kg				203.20
	Say				**203.00**

12.22 Erection of ACSR conductor of 7/3.35 mm to 7/4.00 diameter and above including binding etc. as required.

Details of cost for 133 kg

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				

1003	Lineman	day	9.00	806.00	7254.00
1007	Khallasi	day	30.00	663.00	19890.00
	TOTAL				**27144.00**
	Add 12% GST (MF= 0.1405)				**3813.73**
	TOTAL				**30957.73**
	OVERHEADS & PROFIT @ 15 %				**4643.66**
	Cost for 133 Kg				**35601.39**
	Rate per Kg				267.68
	Say				**268.00**

12.23 Erection of all aluminium conductor of 7/1.96 mm to 7/3.10 mm diameter including binding etc. as required.

Details of cost for 101 kg

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	5.00	806.00	4030.00
1007	Khallasi	day	25.00	663.00	16575.00
	TOTAL				**20605.00**
	Add 12% GST (MF= 0.1405)				**2895.00**
	TOTAL				**23500.00**
	OVERHEADS & PROFIT @ 15 %				**3525.00**
	Cost for 101 Kg				**27025.00**
	Rate per Kg				267.57
	Say				**268.00**

12.24 Erection of all aluminium conductor of 7/3.40 mm to 7/4.00 mm diameter and above including binding etc. as required.

Details of cost for 174 kg

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	9.00	806.00	7254.00
1007	Khallasi	day	30.00	663.00	19890.00
	TOTAL				**27144.00**
	Add 12% GST (MF= 0.1405)				**3813.73**
	TOTAL				**30957.73**
	OVERHEADS & PROFIT @ 15 %				**4643.66**
	Cost for 174 Kg				**35601.39**
	Rate per Kg				204.61
	Say				**205.00**

12.25 Erection of G.I. Wire No. 8 SWG including binding etc. as required.

Details of cost for 153 kg

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	1.25	806.00	1007.50
1007	Khallasi	day	5.62	663.00	3726.06
	TOTAL				4733.56
	Add 12% GST (MF= 0.1405)				665.07
	TOTAL				5398.63
	OVERHEADS & PROFIT @ 15 %				809.79
	Cost for 153 Kg				6208.42
	Rate per Kg				40.58
	Say				41.00

12.26 Erection of hexagonal type guard as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.06	806.00	48.36
1007	Khallasi	day	0.18	663.00	119.34
	TOTAL				**167.70**
	Add 12% GST (MF= 0.1405)				**23.56**
	TOTAL				**191.26**
	OVERHEADS & PROFIT @ 15 %				**28.69**
	TOTAL				**219.95**
	Rate per Each				219.95
	Say				**220.00**

12.27 Erection of ring type guard as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				

1003	Lineman	day	0.02	806.00	16.12
1007	Khallasi	day	0.06	663.00	39.78
	TOTAL				**55.90**
	Add 12% GST (MF= 0.1405)				**7.85**
	TOTAL				**63.75**
	OVERHEADS & PROFIT @ 15 %				**9.56**
	TOTAL				**73.31**
	Rate per Each				73.31
	Say				**73.00**

12.28 Erection of cradle guard as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.04	806.00	32.24
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**111.80**
	Add 12% GST (MF= 0.1405)				**15.71**
	TOTAL				**127.51**
	OVERHEADS & PROFIT @ 15 %				**19.13**
	TOTAL				**146.64**
	Rate per Each				146.64
	Say				**147.00**

12.29 Supplying and erection of 15 A aerial fuse complete as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2615	15 amps aerial fuse complete with porcelain tube as required	each	1.00	13.00	13.00
	Total cost of materials				**13.00**
	Cartage @ 1 % of A1				0.13
	LABOUR				
1003	Lineman	day	0.04	806.00	32.24
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**98.41**
	Add 12% GST (MF= 0.1405)				**13.83**
	TOTAL				**112.24**
	OVERHEADS & PROFIT @ 15 %				**16.84**
	TOTAL				**129.08**
	Rate per Each				129.08
	Say				**129.00**

12.30 Supplying and erection of 30 A aerial fuse complete as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2616	30 amps aerial fuse complete with porcelain tube as required	Each	1.00	20.00	20.00
	Total cost of materials				**20.00**
	Cartage @ 1 % of A1				0.20
	LABOUR				
1003	Lineman	day	0.04	806.00	32.24
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**105.48**
	Add 12% GST (MF= 0.1405)				**14.82**
	TOTAL				**120.30**
	OVERHEADS & PROFIT @ 15 %				**18.04**
	TOTAL				**138.34**
	Rate per Each				138.34
	Say				**138.00**

12.31 Erection of aerial fuse as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.04	806.00	32.24
1007	Khallasi	day	0.08	663.00	53.04
	TOTAL				**85.28**
	Add 12% GST (MF= 0.1405)				**11.98**
	TOTAL				**97.26**
	OVERHEADS & PROFIT @ 15 %				**14.59**
	TOTAL				**111.85**
	Rate per Each				111.85
	Say				**112.00**

12.32 Supplying and fixing MV horn gap lightning arrestor as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2611	MV horn gap lightning arrestor with pin insulator (100 mm X 65 mm), spindle and brass metal parts etc.	Set	1.00	79.20	79.20
	Total cost of materials				79.20
	Cartage @ 1 % of A1				0.79
	LABOUR				
1003	Lineman	day	0.06	806.00	48.36
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				207.91
	Add 12% GST (MF= 0.1405)				29.21
	TOTAL				237.12
	OVERHEADS & PROFIT @ 15 %				35.57
	TOTAL				272.69
	Rate per Each				272.69
	Say				273.00

12.33 Fixing of MV lightning arrestor as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	**Lineman**	day	0.06	806.00	**48.36**
1007	**Khallasi**	day	0.12	663.00	**79.56**
	TOTAL				**127.92**
	Add 12% GST (MF= 0.1405)				**17.97**
	TOTAL				**145.89**
	OVERHEADS & PROFIT @ 15 %				**21.88**
	TOTAL				**167.77**
	Rate per Each				**167.77**
	Say				**168.00**

12.34 Supplying and fixing of 32 mm dia X 2.00 metres long G.I. pipe (medium class) bracket for mounting of fluorescent / HPMV / HPSV street light fitting on pole including bending the pipe to the required shape, 2 nos 40 mm X 3 mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2820	32 mm dia G.I. Pipe (light class) = 2.0 + 0.04 (Wastage @ 2%) = 2.04m	metre	2.04	282.60	576.50
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	56.00	148.40
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	9.00	36.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**768.10**
	Cartage @ 1 % of A1				7.68
	LABOUR				
1005	Fitter, Grade 2	day	0.12	734.00	88.08
1003	Lineman	day	0.12	806.00	96.72
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**1126.33**
	Add 12% GST (MF= 0.1405)				**158.25**
	TOTAL				**1284.58**
	OVERHEADS & PROFIT @ 15 %				**192.69**
	TOTAL				**1477.27**
	Rate per Each				1477.27
	Say				**1477.00**

12.35 Providing and fixing 50 mm dia X 3.2 metres G.I. pipe (including accessories) complete with 50 mm X 50 mm X 6 mm angle iron bracket on wall and 75 mm X 90 mm shackle insulator with straps for house service connection including painting the angle and flat iron with primer and finish paint etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2821	50 mm dia G.I. Pipe (light class) = 2.1 + 0.04 (Wastage @ 2%) = 2.14m	metre	2.14	458.80	981.83
2839	50 mm dia. G.I. bend (medium class)	each	3.00	94.35	283.05
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	set	2.00	29.00	58.00
2620	Angle iron bracket (50mmX50mmX6mm) 65 cm long	each	1.00	111.60	111.60
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2925	Flat iron clamps (50mm X 6mm) for G.I.pipe	each	4.00	45.00	180.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1650.48**
	Cartage @ 1 % of A1				16.50
	LABOUR				
1005	Fitter, Grade 2	day	0.25	734.00	183.50
1003	Lineman	day	0.16	806.00	128.96
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**2310.94**

	Add 12% GST (MF= 0.1405)	324.69
	TOTAL	**2635.63**
	OVERHEADS & PROFIT @ 15 %	**395.34**
	TOTAL	**3030.97**
	Rate per Each	3030.97
	Say	3031.00

12.36 Providing and fixing 50 mm dia X 5.6 metres G.I. pipe (including accessories) complete with 50 mm X 50 mm X 6 mm angle iron cross arm and 40 mm X 3mm M.S. flat iron clamps bends for guard wire, 75 mm X 90 mm shackle insulator and straps, 7/ 3.15 mm G.I. wire stay set for house service connection including painting the angle and flat iron with primer and finish paint etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2821	50 mm dia G.I. Pipe (light class) = 4.5 + 0.09 (Wastage @ 2%) = 4.59m	metre	4.50	458.80	2064.60
2839	50 mm dia. G.I. bend (medium class)	each	3.00	94.35	283.05
2807	50 mm X 50 mm X 6 mm angle iron = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	kg	3.04	56.00	170.24
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	set	2.00	29.00	58.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	7.20	28.80
2925	Flat iron clamps (50mm X 6mm) for G.I.pipe	each	4.00	45.00	180.00
2623	Eye hook	each	1.00	23.75	23.75
2603	Stay wire (7/3.15 mm dia.) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	kg	0.82	37.00	30.34
2624	Guy clamp	each	1.00	54.00	54.00
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	9.00	18.00
2837	Nipple 50 mm dia	each	1.00	67.50	67.50
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2985.48**
	Cartage @ 1 % of A1				29.85
	LABOUR				
1005	Fitter, Grade 2	day	0.16	734.00	117.44
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	0.41	663.00	271.83
	TOTAL				**3670.58**
	Add 12% GST (MF= 0.1405)				**515.72**
	TOTAL				**4186.30**
	OVERHEADS & PROFIT @ 15 %				**627.95**
	TOTAL				**4814.25**
	Rate per Each				4814.25
	Say				**4814.00**

12.37 Supplying and fixing of light class G.I. pipe of 50 mm dia. (nominal) 3 metres length along the pole for protection of under ground cable as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2821	50 mm dia G.I. Pipe (light class) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	metre	3.06	458.80	1403.93
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	56.00	148.40
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	9.00	36.00
	Total cost of materials				1588.33
	Cartage @ 1 % of A1				15.88
	LABOUR				
1005	Fitter, Grade 2	day	0.12	734.00	88.08
1003	Lineman	day	0.12	806.00	96.72
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				1954.76
	Add 12% GST (MF= 0.1405)				274.64
	TOTAL				2229.41
	OVERHEADS & PROFIT @ 15 %				334.41
	TOTAL				2563.82
	Rate per Each				2563.82
	Say				2564.00

12.38 Supplying and fixing of light class G.I. pipe of 80 mm dia. (nominal) 3 metres length along the pole for protection of under ground cable as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2822	80 mm dia G.I. Pipe (light class) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	metre	3.06	715.80	2190.35
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	56.00	148.40
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	9.00	36.00
	Total cost of materials				**2374.75**
	Cartage @ 1 % of A1				23.75
	LABOUR				
1005	Fitter, Grade 2	day	0.12	734.00	88.08
1003	Lineman	day	0.12	806.00	96.72
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2749.05**

	Add 12% GST (MF= 0.1405)	**386.24**
	TOTAL	**3135.29**
	OVERHEADS & PROFIT @ 15 %	**470.29**
	TOTAL	**3605.58**
	Rate per Each	3605.58
	Say	**3606.00**

12.39 Supplying and fixing of light class G.I. pipe of 100 mm dia. (nominal) 3 metres length along the pole for protection of under ground cable as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2823	100 mm dia G.I. Pipe (light class) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	metre	3.06	1036.80	3172.61
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	56.00	148.40
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	9.00	36.00
	Total cost of materials				**3357.01**
	Cartage @ 1 % of A1				33.57
	LABOUR				
1005	Fitter, Grade 2	day	0.12	734.00	88.08
1003	Lineman	day	0.12	806.00	96.72
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**3741.13**
	Add 12% GST (MF= 0.1405)				**525.63**
	TOTAL				**4266.76**
	OVERHEADS & PROFIT @ 15 %				**640.01**
	TOTAL				**4906.77**
	Rate per Each				4906.77
	Say				**4907.00**

12.40 Dismantling of over head lines comprising of copper/ aluminium over head conductor, G.I. wire, cross arms, insulators etc. as required.

Details of cost for 64 Kg

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				

1003	Lineman	day	2.00	806.00	1612.00
1007	Khallasi	day	4.00	663.00	2652.00
	TOTAL				**4264.00**
	Add 12% GST (MF= 0.1405)				**599.09**
	TOTAL				**4863.09**
	OVERHEADS & PROFIT @ 15 %				**729.46**
	Cost for 64 kg				**5592.55**
	Rate per Kg				87.38
	Say				**87.00**

12.41 Dismantling of pole/ street light standard/ strut embedded in brick ballast foundation etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.25	806.00	201.50
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**1527.50**
	Add 12% GST (MF= 0.1405)				**214.61**
	TOTAL				**1742.11**
	OVERHEADS & PROFIT @ 15 %				**261.32**
	TOTAL				**2003.43**
	Rate per Each				2003.43
	Say				**2003.00**

12.42 Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	2.66	663.00	1763.58
	TOTAL				**2029.56**
	Add 12% GST (MF= 0.1405)				**285.15**
	TOTAL				**2314.71**
	OVERHEADS & PROFIT @ 15 %				**347.21**
	TOTAL				**2661.92**
	Rate per Each				2661.92
	Say				**2662.00**

13.1 Supplying and erection of galvanised stay set for 11 KV over head lines complete with 19/ 20 mm dia X 1.8 meters long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm thick, thimble, stay clamps, turn buckle (20 mm X 600 mm), 7/ 4.00 mm dia G.I. stay wire and 11 KV strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

Details of cost for one Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	432.00	432.00
2602	Stay wire (7/4.00 mm dia.) = 8.40 + 0.25 (wastage @3%) = 8.65 kg	kg	8.65	37.00	320.05
2618	Stay clamp	set	1.00	50.40	50.40
2604	Turn buckle (20 mm X 60 cm)	each	1.00	158.00	158.00
2643	Strain insulator 11 KV	each	1.00	18.40	18.40
	Total cost of materials				**978.85**
	Cartage @ 1 % of A1				9.79
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**2136.41**
	Add 12% GST (MF= 0.1405)				**300.17**
	TOTAL				**2436.57**
	OVERHEADS & PROFIT @ 15 %				**365.49**
	TOTAL				**2802.06**
14.4	Excavation including refilling as required	cum	1.20	654.00	784.80
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				5454.53
	Rate per Set				5454.53
	Say				**5455.00**

13.2 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per meter) pole top bracket/ cross arm for single 11 KV over head line conductor complete with 50 mm X 6mm flat iron clamp, bolts, nuts and washers including drilling holes for insulator pins, bolts and nuts etc and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)= 1.78 + 0.04 (Wastage @ 2%) = 1.82kg	Kg	1.82	56.00	101.92
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	56.00	47.04
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	9.00	18.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				174.16
	Cartage @ 1 % of A1				1.74
	LABOUR				
1005	Fitter, Grade 2	day	0.12	734.00	88.08
1009	Blacksmith, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.18	663.00	119.34
1084	Drilling holes	each	4.00	6.00	24.00
	TOTAL				451.36
	Add 12% GST (MF= 0.1405)				63.42
	TOTAL				514.78
	OVERHEADS & PROFIT @ 15 %				77.22
	TOTAL				592.00
	Rate per Each				592.00
	Say				592.00

13.3 Supplying of 50 mm X 8 mm M.S. flat iron pole top bracket/ cross arm for single 11/22/33 KV over head line conductor complete with fixing clamps, bolts, nuts and washers drilling holes for insulator pins, bolts and nuts etc and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2814	50 mm X 8 mm flat iron = 1.60 + 0.03 (Wastage @ 2%) = 1.63kg	kg	1.63	56.00	91.28
2869	16mm X 125 mm bolts andnuts with washers	set	2.00	21.60	43.20
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**141.68**
	Cartage @ 1 % of A1				1.42
	LABOUR				
1005	Fitter, Grade 2	day	0.12	734.00	88.08
1009	Blacksmith, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.18	663.00	119.34
1084	Drilling holes	each	4.00	6.00	24.00
1086	Welding charges	mm	100.00	0.50	50.00
	TOTAL				**468.56**

	Add 12% GST (MF= 0.1405)	**65.83**
	TOTAL	**534.39**
	OVERHEADS & PROFIT @ 15 %	**80.16**
	TOTAL	**614.55**
	Rate per Each	614.55
	Say	**615.00**

13.4 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per meter) cross arm for two 11 KV over head line conductors complete with 50 mm X 50 mm X 6 mm (angle iron bracket welded to the channel iron and complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts and washers etc (as per drawing) and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)= 7.85 + 0.16 (Wastage @ 2%) = 8.01kg	kg	8.01	56.00	448.56
2807	50 mm X 50 mm X 6 mm angle iron = 8.35 + 0.17 (Wastage @ 2%) = 8.52kg	kg	8.52	56.00	477.12
2813	50 mm X 6 mm flat iron = 1.63 + 0.03 (Wastage @ 2%) = 1.66kg	kg	1.66	56.00	92.96
2867	16mmX50 mm bolts and nuts with washers	set	4.00	9.00	36.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**1061.84**
	Cartage @ 1 % of A1				10.62
	LABOUR				
1005	Fitter, Grade 2	day	0.25	734.00	183.50
1009	Blacksmith, Grade 2	day	0.15	734.00	110.10
1007	Khallasi	day	0.40	663.00	265.20
1086	Welding charges	mm	200.00	0.50	100.00
1084	Drilling holes	each	8.00	6.00	48.00
	TOTAL				**1779.26**
	Add 12% GST (MF= 0.1405)				**249.99**
	TOTAL				**2029.24**
	OVERHEADS & PROFIT @ 15 %				**304.39**
	TOTAL				**2333.63**
	Rate per Each				2333.63
	Say				**2334.00**

13.5 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per meter) V shape cross arm for two 11 KV over head line conductors complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts and washers etc (as per drawing) and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)= 10.05 + 0.201 (Wastage @ 2%) = 10.251kg	Kg	10.25	56.00	574.00 47.04
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	56.00	18.00
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	9.00	7.20
2936	Painting with primer and finish paint	L.S.	1.00	7.20	646.24
	Total cost of materials				6.46
	Cartage @ 1 % of A1				
	LABOUR				220.20
1005	Fitter, Grade 2	day	0.30	734.00	146.80
1009	Blacksmith, Grade 2	day	0.20	734.00	331.50
1007	Khallasi	day	0.50	663.00	160.00
1086	Welding charges	mm	320.00	0.50	24.00
1084	Drilling holes	each	4.00	6.00	1535.20
	TOTAL				215.70
	Add 12% GST (MF= 0.1405)				1750.90
	TOTAL				262.63
	OVERHEADS & PROFIT @ 15 %				2013.53
	TOTAL				2013.53
	Rate per Each				2014.00
	Say				

13.6 Erection of pole top/ straight two wire/ V shape two wire, angle iron/ channel iron, cross arm on steel tubular/ rail/ PCC pole for 11/22/33 KV as required.

Details of cost for One Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.20	806.00	161.20
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**426.40**
	Add 12% GST (MF= 0.1405)				**59.91**
	TOTAL				**486.31**

	OVERHEADS & PROFIT @ 15 %	**72.95**
	TOTAL	**559.26**
	Rate per Set	559.26
	Say	**559.00**

13.7 Supplying of two lengths of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per meter) double pole cross arm for three wire 11KV over head line conductors complete with through bolts and nuts for clamping to the poles, 50 mm X 6 mm M.S. flats welded on one side to the channel iron and with bolts and nuts on the other side for tying the cross arms together, including drilling holes for insulator pins/ fittings, bolts, nuts and washers etc (as per drawing) and painting with primer and finish paint as required.

Details of cost for One Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)= 32.84 + 0.66 (Wastage @ 2%) = 33.50kg	kg	33.50	56.00	1876.00
2813	50 mm X 6 mm flat iron = 2.52 + 0.0504 (Wastage @ 2%) = 2.57kg	kg	2.57	56.00	143.92
2869	16 mm X 125 mm bolts and nuts with washers	set	4.00	21.60	86.40
2868	16 mm X 40 mm bolts and nuts with washers	set	12.00	9.00	108.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2221.52**
	Cartage @ 1 % of A1				22.22
	LABOUR				
1005	Fitter, Grade 2	day	0.50	734.00	367.00
1009	Blacksmith, Grade 2	day	0.15	734.00	110.10
1007	Khallasi	day	1.50	663.00	994.50
1084	Drilling holes	each	32.00	6.00	192.00
	TOTAL				**3907.34**
	Add 12% GST (MF= 0.1405)				**548.98**
	TOTAL				**4456.32**
	OVERHEADS & PROFIT @ 15 %				**668.45**
	TOTAL				**5124.77**
	Rate per Set				5124.77
	Say				**5125.00**

13.8 Supplying and erection of a set of cross bracing frame work for 11 KV over head line double pole structure having four members fabricated out of 50 mm X 50 mm X 6 mm angle iron to form a rectangle of minimum size 1400 mm width X 2500 mm height, complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc (as per drawing) and painting with primer and finish paint as required.

Details of cost for One Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2807	50 mm X 50 mm X 6 mm angle iron = 41.98 + 0.84 (Wastage @ 2%) = 42.82kg	kg	42.82	56.00	2397.92
2813	50 mm X 6 mm flat iron = 3.65 + 0.07 (Wastage @ 2%) = 3.72kg	kg	3.72	56.00	208.32
2867	16 mm X 50 mm bolts and nuts with washers	set	8.00	9.00	72.00
2868	16 mm X 40 mm bolts and nuts with washers	set	1.00	9.00	9.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				2694.44
	Cartage @ 1 % of A1				26.94
	LABOUR				
1003	Lineman	day	0.50	806.00	403.00
1005	Fitter, Grade 2	day	0.50	734.00	367.00
1009	Blacksmith, Grade 2	day	0.50	734.00	367.00
1007	Khallasi	day	3.00	663.00	1989.00
1084	Drilling holes	each	18.00	6.00	108.00
	TOTAL				5955.38
	Add 12% GST (MF= 0.1405)				836.73
	TOTAL				6792.12
	OVERHEADS & PROFIT @ 15 %				1018.82
	TOTAL				7810.94
	Rate per Set				7810.94
	Say				7811.00

13.9 Erection of double pole 3 wire cross arm for 11KV/ 22KV/ 33 KV over head lines as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.35	806.00	282.10
1007	Khallasi	day	1.05	663.00	696.15
	TOTAL				**978.25**
	Add 12% GST (MF= 0.1405)				**137.44**
	TOTAL				**1115.69**
	OVERHEADS & PROFIT @ 15 %				**167.35**
	TOTAL				**1283.04**
	Rate per Each				1283.04
	Say				**1283.00**

13.10 Supplying and erection of 11 KV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2645	11 KV pin insulator with pin washers and nuts	set	1.00	90.40	90.40
	Total cost of materials				**90.40**
	Cartage @ 1 % of A1				0.90
	LABOUR				
1003	Lineman	day	0.10	806.00	80.60
1007	Khallasi	day	0.10	663.00	66.30
	TOTAL				**238.20**
	Add 12% GST (MF= 0.1405)				**33.47**
	TOTAL				**271.67**
	OVERHEADS & PROFIT @ 15 %				**40.75**
	TOTAL				**312.42**
	Rate per Each				312.42
	Say				**312.00**

13.11 Supplying and erection of 11 KV disc insulator for 11 KV over head lines with galvanised insulator fittings, ball and socket type and complete with galvanised strain clamps, bolts, nuts, washers etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2646	11 KV disc insulator	set	1.00	404.80	404.80
2647	Galvanised insulator hardware fitting ball and socket type with strain clamps, bolts, nuts and washers	set	1.00	118.80	118.80
	Total cost of materials				**523.60**
	Cartage @ 1 % of A1				5.24
	LABOUR				
1003	Lineman	day	0.10	806.00	80.60
1005	Fitter, Grade 2	day	0.05	734.00	36.70
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**745.59**
	Add 12% GST (MF= 0.1405)				**104.75**
	TOTAL				**850.34**
	OVERHEADS & PROFIT @ 15 %				**127.55**
	TOTAL				**977.89**
	Rate per Each				977.89
	Say				**978.00**

13.12 Erection of disc/ pin insulator for 11 KV over head lines as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1003	Lineman	day	0.06	806.00	48.36
1007	Khallasi	day	0.12	663.00	79.56
	TOTAL				**127.92**
	Add 12% GST (MF= 0.1405)				**17.97**
	TOTAL				**145.89**
	OVERHEADS & PROFIT @ 15 %				**21.88**
	TOTAL				**167.77**
	Rate per Set				167.77
	Say				**168.00**

13.13 Supplying and erection of three piece nonlinear resistor type lightning arrestor suitable for 3 wire, 11 KV overhead lines with rated voltage 9 KV (rms) with a nominal discharge current rating of 5 KA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2650	3 piece lightning arrestor set for 1 1 KV O.H. lines complete with G.I. Clamps bolts and nuts with washers	set	1.00	1620.00	1620.00
	Total cost of materials				**1620.00**
	Cartage @ 1 % of A1				16.20
	LABOUR				
1003	Lineman	day	0.25	806.00	201.50
1007	Khallasi	day	0.25	663.00	165.75
	TOTAL				**2003.45**
	Add 12% GST (MF= 0.1405)				**281.48**
	TOTAL				**2284.93**
	OVERHEADS & PROFIT @ 15 %				**342.74**
	TOTAL				**2627.67**
	Rate per Each				2627.67
	Say				**2628.00**

13.14 Supplying and erection of galvanised stay set for 33 KV over head lines complete with 19/ 20 mm dia X 1.8 meters long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm thick, thimble, stay clamps, turn buckle (20 mm X 600 mm), 7/ 4.00 mm dia G.I. stay wire and 33 KV strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2601	Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	1.00	432.00	432.00
2602	Stay wire (7/4.00 mm dia.) = 8.40 + 0.25 (wastage @ 3%) = 8.65 kg	kg	8.65	37.00	320.05
2618	Stay clamp	set	1.00	50.40	50.40
2604	Turn buckle (20 mm X 60 cm)	each	1.00	158.00	158.00
2644	Strain insulator 33 KV	each	1.00	27.20	27.20
	Total cost of materials				**987.65**
	Cartage @ 1 % of A1				9.88
	LABOUR				
1003	Lineman	day	0.33	806.00	265.98
1007	Khallasi	day	1.33	663.00	881.79
	TOTAL				**2145.30**
	Add 12% GST (MF= 0.1405)				**301.41**
	TOTAL				**2446.71**
	OVERHEADS & PROFIT @ 15 %				**367.01**
	TOTAL				**2813.72**
14.4	Excavation including refilling as required	cum	1.20	654.00	784.80
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6670.25	1867.67
	TOTAL				5466.19
	Rate per Each				5466.19
	Say				**5466.00**

13.15 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per meter) pole top bracket/ cross arm for single 33 KV over head line conductor complete with 50 mm X 6mm flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts, washers etc and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)= 1.15 mtr = 8.21kg + 0.16 (wastage @ 2%) = 8.37 kg	Kg	2.18	56.00	122.08
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	56.00	47.04
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	9.00	18.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**194.32**
	Cartage @ 1 % of A1				1.94
	LABOUR				
1005	Fitter, Grade 2	day	0.12	734.00	88.08
1009	Blacksmith, Grade 2	day	0.06	734.00	44.04
1007	Khallasi	day	0.18	663.00	119.34
1084	Drilling holes	each	4.00	6.00	24.00
	TOTAL				**471.72**
	Add 12% GST (MF= 0.1405)				**66.28**
	TOTAL				**538.00**
	OVERHEADS & PROFIT @ 15 %				**80.70**
	TOTAL				**618.70**
	Rate per Each				618.70
	Say				**619.00**

13.16 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per meter) cross arm for two 33 KV over head line conductors complete with 50 mm X 50 mm X 6 mm angle iron bracket welded to the channel iron and complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts, washers etc and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)= 11.42 + 0.23 (Wastage @ 2%) = 11.65kg	kg	11.65	56.00	652.40
2807	50 mm X 50 mm X 6 mm angle iron = 11.75 + 0.24 (Wastage @ 2%) = 11.99kg	kg	11.99	56.00	671.44
2813	50 mm X 6 mm flat iron = 1.63 + 0.03 (Wastage @ 2%) = 1.66kg	kg	1.66	56.00	92.96
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	9.00	36.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				1460.00
	Cartage @ 1 % of A1				14.60
	LABOUR				
1005	Fitter, Grade 2	day	0.25	734.00	183.50
1009	Blacksmith, Grade 2	day	0.15	734.00	110.10

1007	Khallasi	day	0.40	663.00	265.20
1084	Drilling holes	each	8.00	6.00	48.00
1086	Welding charges	mm	200	0.50	100.00
	TOTAL				**2181.40**
	Add 12% GST (MF= 0.1405)				**306.49**
	TOTAL				**2487.89**
	OVERHEADS & PROFIT @ 15 %				**373.18**
	TOTAL				**2861.07**
	Rate per Each				2861.07
	Say				**2861.00**

13.17 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per meter) V shape cross arm for two 33 KV over head line conductors complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)= 13.26 + 0.27 (Wastage @ 2%) = 13.53kg	kg	13.53	56.00	757.68
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	56.00	47.04
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	9.00	18.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				829.92
	Cartage @ 1 % of A1				8.30
	LABOUR				
1005	Fitter, Grade 2	day	0.30	734.00	220.20
1009	Blacksmith, Grade 2	day	0.20	734.00	146.80
1007	Khallasi	day	0.50	663.00	331.50
1086	Welding charges	mm	320	0.50	160.00
1084	Drilling holes	each	4.00	6.00	24.00
	TOTAL				**1720.72**
	Add 12% GST (MF= 0.1405)				**241.76**
	TOTAL				**1962.48**
	OVERHEADS & PROFIT @ 15 %				**294.37**
	TOTAL				**2256.85**
	Rate per Each				2256.85
	Say				**2257.00**

13.18 Supplying of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per meter), pole top bracket/ cross arm for single 33 KV over head line conductor complete with 50 mm X 6 mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts and nuts etc and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr)= 2.87 + 0.06 (Wastage @ 2%) = 2.93kg	kg	2.93	56.00	164.08
2813	50 mm X 6 mm flat iron = 1.00 + 0.02 (Wastage @ 2%) = 1.02kg	kg	1.02	56.00	57.12
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	9.00	18.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				246.40
	Cartage @ 1 % of A1				2.46
	LABOUR				
1005	Fitter, Grade 2	day	0.15	734.00	110.10
1009	Blacksmith, Grade 2	day	0.07	734.00	51.38
1007	Khallasi	day	0.22	663.00	145.86
1084	Drilling holes	each	4.00	6.00	24.00
	TOTAL				580.20
	Add 12% GST (MF= 0.1405)				81.52
	TOTAL				661.72
	OVERHEADS & PROFIT @ 15 %				99.26
	TOTAL				760.98
	Rate per Each				760.98
	Say				761.00

13.19 Supplying of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per meter) cross arm for two wire 33 KV over head line conductors complete with 50 mm X 50 mm X 6 mm angle iron bracket welded to the channel iron and complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins/ fittings, bolts, nuts, washers etc and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr)= 17.75 + 0.36 (Wastage @ 2%) = 18.11kg	kg	18.11	56.00	1014.16
2807	50 mm X 50 mm X 6 mm angle iron = 11.75 + 0.24 (Wastage @ 2%) = 11.99kg	kg	11.99	56.00	671.44
2813	50 mm X 6 mm flat iron = 2.01 + 0.0402 (Wastage @ 2%) = 2.05kg	kg	2.05	56.00	114.80
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	9.00	36.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				1843.60
	Cartage @ 1 % of A1				18.44
	LABOUR				
1005	Fitter, Grade 2	day	0.35	734.00	256.90
1009	Blacksmith, Grade 2	day	0.15	734.00	110.10
1007	Khallasi	day	0.50	663.00	331.50
1086	Welding charges	mm	200	0.50	100.00
1084	Drilling holes	each	8.00	6.00	48.00
	TOTAL				2708.54
	Add 12% GST (MF= 0.1405)				380.55
	TOTAL				3089.09
	OVERHEADS & PROFIT @ 15 %				463.36
	TOTAL				3552.45
	Rate per Each				3552.45
	Say				3552.00

13.20 Supplying of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per meter) V shape cross arm for two 33 KV over head line conductors complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts, washers etc and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr)= 17.75 + 0.36 (Wastage @ 2%) = 18.11kg	kg	18.11	56.00	1014.16 47.04
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	56.00	18.00
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	9.00	7.20
2936	Painting with primer and finish paint	L.S.	1.00	7.20	**1086.40**
	Total cost of materials				10.86
	Cartage @ 1 % of A1				
	LABOUR				220.20
1005	Fitter, Grade 2	day	0.30	734.00	146.80
1009	Blacksmith, Grade 2	day	0.20	734.00	

1007	Khallasi	day	0.50	663.00	331.50
1086	Welding charges	mm	500	0.50	250.00
1084	Drilling holes	each	4.00	6.00	24.00
	TOTAL				**2069.76**
	Add 12% GST (MF= 0.1405)				**290.80**
	TOTAL				**2360.57**
	OVERHEADS & PROFIT @ 15 %				**354.08**
	TOTAL				**2714.65**
	Rate per Each				2714.65
	Say				**2715.00**

13.21 Supplying of two lengths of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per meter) double pole cross arm for three wire 33 KV over head line conductors complete with through bolts and nuts for clamping to the poles, 50 mm X 6 mm M.S. flats welded on one side to the channel iron and with bolts and nuts on the other side for tying the cross arms together, including drilling holes for insulator pins/ fittings, bolts, nuts, washers etc and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr)=43.98 + 0.8796 (Wastage @ 2%) = 44.86kg	kg	44.86	56.00	2512.16
2813	50 mm X 6 mm flat iron = 2.88 + 0.06 (Wastage @ 2%) = 2.94kg	kg	2.94	56.00	164.64
2870	16 mm X 150 mm bolts and nuts with washers	set	4.00	25.20	100.80
2868	16 mm X 40 mm bolts and nuts with washers	set	12.00	9.00	108.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				**2892.80**
	Cartage @ 1 % of A1				28.93
	LABOUR				
1005	Fitter, Grade 2	day	0.60	734.00	440.40
1009	Blacksmith, Grade 2	day	0.15	734.00	110.10
1007	Khallasi	day	2.70	663.00	1790.10
1084	Drilling holes	each	32.00	6.00	192.00
	TOTAL				**5454.33**
	Add 12% GST (MF= 0.1405)				**766.33**
	TOTAL				**6220.66**
	OVERHEADS & PROFIT @ 15 %				**933.10**
	TOTAL				**7153.76**
	Rate per Each				7153.76
	Say				**7154.00**

13.22 Supplying and erection of a set of cross bracing frame work for 33 KV over head line double pole structure having four members fabricated out of 65 mm X 65 mm X 6 mm angle iron to form a rectangle of minimum size 2400 mm width X 2800 mm height complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts, washers etc and painting with primer and finish paint as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2808	65 mm X 65 mm X 6 mm angle iron = 76.42 + 1.53 (Wastage @ 2%) = 77.95kg	kg	77.95	56.00	4365.20
2813	50 mm X 6 mm flat iron = 4.42 + 0.09 (Wastage @ 2%) = 4.51kg	kg	4.51	56.00	252.56
2867	16 mm X 50 mm bolts and nuts with washers	set	8.00	9.00	72.00
2868	16 mm X 40 mm bolts and nuts with washers	set	1.00	9.00	9.00
2936	Painting with primer and finish paint	L.S.	1.00	7.20	7.20
	Total cost of materials				4705.96
	Cartage @ 1 % of A1				47.06
	LABOUR				
1003	Lineman	day	0.60	806.00	483.60
1005	Fitter, Grade 2	day	0.50	734.00	367.00
1009	Blacksmith, Grade 2	day	0.50	734.00	367.00
1007	Khallasi	day	3.40	663.00	2254.20
1084	Drilling holes	each	18.00	6.00	108.00
	TOTAL				8332.82
	Add 12% GST (MF= 0.1405)				1170.76
	TOTAL				9503.58
	OVERHEADS & PROFIT @ 15 %				1425.54
	TOTAL				10929.12
	Rate per Each				10929.12
	Say				10929.00

13.23 Supplying and erection of 33 KV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2648	33 KV pin insulator with pin washers and nuts	set	1.00	404.80	404.80
	Total cost of materials				**404.80**
	Cartage @ 1 % of A1				4.05
	LABOUR				
1003	Lineman	day	0.15	806.00	120.90
1007	Khallasi	day	0.15	663.00	99.45
	TOTAL				**629.20**
	Add 12% GST (MF= 0.1405)				**88.40**
	TOTAL				**717.60**
	OVERHEADS & PROFIT @ 15 %				**107.64**
	TOTAL				**825.24**
	Rate per Each				825.24
	Say				**825.00**

13.24 Supplying and erection of a set of three 11 KV disc insulator for 33 KV over head lines with galvanised insulator fittings, ball and socket type and complete with galvanised strain clamps, bolts, nuts, washers etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2646	11 KV disc insulator	set	3.00	404.80	1214.40
2649	Galvanised insulator hardware fitting ball and socket type with strain clamps, bolts, nuts and washers for 3 Nos 11 KV disk insulator	set	1.00	347.00	347.00
	Total cost of materials				**1561.40**
	Cartage @ 1 % of A1				15.61
	LABOUR				
1003	Lineman	day	0.25	806.00	201.50
1005	Fitter, Grade 2	day	0.15	734.00	110.10
1007	Khallasi	day	0.40	663.00	265.20
	TOTAL				**2153.81**
	Add 12% GST (MF= 0.1405)				**302.61**
	TOTAL				**2456.42**
	OVERHEADS & PROFIT @ 15 %				**368.46**
	TOTAL				**2824.88**
	Rate per Each				2824.88
	Say				**2825.00**

13.25 Supplying and erection of single piece nonlinear resistor type lightning arrestor suitable for 3 wire, 33 KV overhead lines with rated voltage 30 KV (rms) with a nominal discharge current rating of 10 KA (station class) and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.

Details of cost for one No

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2651	Single piece lightning arrestor set for 33 KV O.H. lines complete with G.I. Clamps bolts and nuts with washers	set	1.00	12600.00	12600.00
	Total cost of materials				**12600.00**
	Cartage @ 1 % of A1				126.00
	LABOUR				
1003	Lineman	day	0.30	806.00	241.80
1007	Khallasi	day	0.30	663.00	198.90
	TOTAL				**13166.70**
	Add 12% GST (MF= 0.1405)				**1849.92**
	TOTAL				**15016.62**
	OVERHEADS & PROFIT @ 15 %				**2252.49**
	TOTAL				**17269.11**
	Rate per Each				17269.11
	Say				**17269.000**

CHAPTER 14 – MISC. CIVIL ITEMS

14.1 Rate to be taken from Civil DSR

14.2 Rate to be taken from Civil DSR

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

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1016	Mate	day	0.20	663.00	132.60
1012	Beldar/ coolie	day	2.50	663.00	1657.50
1013	Bhisti	day	0.20	663.00	132.60
	TOTAL				**1922.70**
	Add 1% for water charges				**19.23**
	TOTAL				**1941.93**
	Add 12% GST (MF= 0.1405)				**272.84**
	TOTAL				**2214.77**
	OVERHEADS & PROFIT @ 15 %				**332.22**
	Cost for 10 cum				**2546.99**
	Rate per Cum				254.70
	Say				**255.00**

14.4 Excavation for cable trenches in soft soil, depth upto 1.2 m including dressing of sides lift upto 1.5 m, including getting out the excavated soil, refilling with sand and or good soil after laying of cable/ pipe etc in layers of 20 cm, ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 meters.

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1016	Mate	day	0.25	663.00	165.75
1012	Beldar/ coolie	day	4.30	663.00	2850.90
1016	Mate	day	0.20	663.00	132.60
1012	Beldar/ coolie	day	2.50	663.00	1657.50
1013	Bhisti	day	0.20	663.00	132.60
	TOTAL				**4939.35**
	Add 1% for water charges				**49.39**
	TOTAL				**4988.74**
	Add 12% GST (MF= 0.1405)				**700.92**
	TOTAL				**5689.66**
	OVERHEADS & PROFIT @ 15 %				**853.45**

	Cost for 10 cum	**6543.11**
	Rate per Cum	654.31
	Say	**654.00**

14.5 Deduct for not consolidation by ramming and watering while re-filling with sand and or good soil in cable/ pipe laying.

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1016	Mate	day	0.20	663.00	132.60
1012	Beldar/ coolie	day	1.25	663.00	828.75
1013	Bhisti	day	0.20	663.00	132.60
	TOTAL				**1093.95**
	Add 1% for water charges				**10.94**
	TOTAL				**1104.89**
	Add 12% GST (MF= 0.1405)				**155.24**
	TOTAL				**1260.13**
	OVERHEADS & PROFIT @ 15 %				**189.02**
	Cost for 10 cum				**1449.15**
	Rate per Cum				144.91
	Say				**145.00**

14.6 Excavation of the cable trenches in hard rock not exceeding 1.5 meters in width, and lift upto 1.5 meters, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 meters.

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	LABOUR				
1015	Stone Breaker	day	5.00	734.00	3670.00
1014	Excavator	day	3.00	663.00	1989.00
1009	Blacksmith, Grade 2	day	0.20	734.00	146.80
1012	Beldar/ coolie	day	3.00	663.00	1989.00
1011	Stone Chiseler	day	2.00	734.00	1468.00
	TOTAL				**9262.80**
	Add 12% GST (MF= 0.1405)				**1301.42**
	TOTAL				**10564.22**
	OVERHEADS & PROFIT @ 15 %				**1584.63**
	Cost for 10 cum				**12148.85**
	Rate per Cum				1214.89
	Say				**1215.00**

14.7 Rate to be taken from Civil DSR
14.8 Rate to be taken from Civil DSR
14.9 Rate to be taken from Civil DSR
14.10 Rate to be taken from Civil DSR
14.11 Rate to be taken from Civil DSR
14.12 Rate to be taken from Civil DSR
14.13 Rate to be taken from Civil DSR
14.13.1 Rate to be taken from Civil DSR
14.13.2 Rate to be taken from Civil DSR
14.13.3 100 mm dia

Details of cost for 30 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2834	100 mm dia. G.I. pipe (medium class)	meter	30.00	1260.00	37800.00
	Total cost of materials				**37800.00**
	Cartage @ 1 % of A1				378.00
	LABOUR				
1004	Fitter, Grade 1	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
1012	Beldar/ coolie	day	4.00	663.00	2652.00
	TOTAL				**41314.77**
	Add 12% GST (MF= 0.1405)				**5804.73**
	TOTAL				**47119.50**
	OVERHEADS & PROFIT @ 15 %				**7067.92**
	Cost for 30 Meters				**54187.42**
	Rate per Meters				1806.25
	Say				**1806.00**

14.13.4 150 mm dia

Details of cost for 30 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2835	150 mm dia. G.I. pipe (medium class)	meter	30.00	1965.00	58950.00
	Total cost of materials				**58950.00**
	Cartage @ 1 % of A1				589.50
	LABOUR				
1004	Fitter, Grade 1	day	0.33	806.00	265.98
1007	Khallasi	day	0.33	663.00	218.79
1012	Beldar/ coolie	day	4.00	663.00	2652.00
	TOTAL				**62676.27**
	Add 12% GST (MF= 0.1405)				**8806.02**
	TOTAL				**71482.29**

	Cost for 30 Meters	**82204.63**
	Rate per Meters	2740.15
	Say	**2740.00**

14.14 Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.

14.14.1 100 mm dia

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2841	100 mm dia RCC pipe NP2 class	meter	10.00	210.00	2100.00
2845	100 mm dia RCC collar NP2 class	each	5.00	31.50	157.50
2948	Cement	tonne	0.010	7200.00	72.00
2946	Fine sand	cum	0.010	900.00	9.00
	Total cost of materials				**2338.50**
	Cartage @ 1 % of A1				23.39
	LABOUR				
1010	Mason, Grade 2	day	0.66	734.00	484.44
1012	Beldar/ coolie	day	0.66	663.00	437.58
1013	Bhisti	day	0.16	663.00	106.08
1012	Beldar/ coolie	day	2.50	663.00	1657.50
	TOTAL				**5047.49**
	Add 12% GST (MF= 0.1405)				**709.17**
	TOTAL				**5756.66**
	OVERHEADS & PROFIT @ 15 %				**863.50**
	Cost for 10 Meters				**6620.16**
	Rate per Meters				662.02
	Say				**662.00**

14.14.2 150 mm dia

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2842	150 mm dia RCC pipe NP2 class	meter	10.00	220.00	2200.00
2846	150 mm dia RCC collar NP2 class	each	5.00	33.30	166.50
2948	Cement	tonne	0.010	7200.00	72.00
2946	Fine sand	cum	0.010	900.00	9.00
	Total cost of materials				**2447.50**
	Cartage @ 1 % of A1				24.48
	LABOUR				

1010	Mason, Grade 2	day	0.80	734.00	587.20
1012	Beldar/ coolie	day	0.80	663.00	530.40
1013	Bhisti	day	0.16	663.00	106.08
1012	Beldar/ coolie	day	2.75	663.00	1823.25
	TOTAL				**5518.91**
	Add 12% GST (MF= 0.1405)				**775.41**
	TOTAL				**6294.31**
	OVERHEADS & PROFIT @ 15 %				**944.15**
	Cost for 10 Meters				**7238.46**
	Rate per Meters				723.85
	Say				**724.00**

14.14.3250 mm dia

Details of cost for 10 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2843	**250 mm dia RCC pipe NP2 class**	meter	10.00	365.00	**3650.00**
2847	**250 mm dia RCC collar NP2 class**	each	5.00	49.50	**247.50**
2948	**Cement**	tonne	0.010	7200.00	**72.00**
2946	**Fine sand**	cum	0.010	900.00	**9.00**
	Total cost of materials				**3978.50**
	Cartage @ 1 % of A1				**39.79**
	LABOUR				
1010	**Mason, Grade 2**	day	1.00	734.00	**734.00**
1012	**Beldar/ coolie**	day	1.00	663.00	**663.00**
1013	**Bhisti**	day	0.20	663.00	**132.60**
1012	**Beldar/ coolie**	day	2.85	663.00	**1889.55**
	TOTAL				**7437.44**
	Add 12% GST (MF= 0.1405)				**1044.96**
	TOTAL				**8482.39**
	OVERHEADS & PROFIT @ 15 %				**1272.36**
	Cost for 10 Meters				**9754.75**
	Rate per Meters				**975.48**
	Say				**975.00**

14.14.4300 mm dia

Details of cost for 10 Meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

2844	300 mm dia RCC pipe NP2 class	meter	10.00	450.00	4500.00
2848	300 mm dia RCC collar NP2 class	each	4.00	63.00	252.00
2948	Cement	tonne	0.010	7200.00	72.00
2946	Fine sand	cum	0.020	900.00	18.00
	Total cost of materials				**4842.00**
	Cartage @ 1 % of A1				48.42
	LABOUR				
1010	Mason, Grade 2	day	1.20	734.00	880.80
1012	Beldar/ coolie	day	1.20	663.00	795.60
1013	Bhisti	day	0.20	663.00	132.60
1012	Beldar/ coolie	day	3.00	663.00	1989.00
	TOTAL				**8688.42**
	Add 12% GST (MF= 0.1405)				**1220.72**
	TOTAL				**9909.14**
	OVERHEADS & PROFIT @ 15 %				**1486.37**
	Cost for 10 Meters				**11395.51**
	Rate per Meters				1139.55
	Say				**1140.00**

14.15 Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.

14.15.163 mm dia (OD-63 mm & ID-51 mm nominal)

Details of cost for 10 cum

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2891	63 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5 m	meter	52.50	78.00	4095.00
2896	63 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	16.00	32.00
	Total cost of materials				**4127.00**
	Cartage @ 1 %				41.27
	LABOUR				
1007	Khallasi (2 nos for 0.5 day)	day	1.00	663.00	663.00
	TOTAL				**4831.27**
	Add 12% GST (MF= 0.1405)				**678.79**
	TOTAL				**5510.06**
	Add 15 % Over Head & Contractor Profit				**826.51**
	TOTAL				**6336.57**
	Cost for 50 meter				**6336.57**
	Rate per meter				126.73
	Say				**127.00**

14.15.290 mm dia (OD-90 mm & ID-76 mm nominal)

Details of cost for 50 meter

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2892	90 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	108.00	5670.00
2897	90 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	72.00	74.00
	Total cost of materials				**5744.00**
	Cartage @ 1 %				57.44
	LABOUR				
1007	Khallasi (2 nos for 0.5 day)	day	1.00	663.00	663.00
	T**OTAL**				**6464.44**
	Add 12% GST (MF= 0.1405)				**908.25**
	TOTAL				**7372.69**
	Add 15 % Over Head & Contractor Profit				**1105.90**
	TOTAL				**8478.60**
	Cost for 50 meter				**8478.60**
	Rate per meter				169.57
	Say				**170.00**

14.15.3120 mm dia (OD-120 mm & ID-103 mm nominal)

Details of cost for 50 meter

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2893	120 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	156.00	8190.00
2898	120 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	84.00	168.00
	Total cost of materials				**8358.00**
	Cartage @ 1 %				83.58
	LABOUR				
1007	Khallasi (2 nos for 0.75 day)	day	1.50	663.00	994.50
	TOTAL				**9436.08**
	Add 12% GST (MF= 0.1405)				**1325.77**
	TOTAL				**10761.85**
	Add 15 % Over Head & Contractor Profit				**1614.28**
	TOTAL				**12376.13**
	Cost for 50 meter				**12376.13**
	Rate per meter				247.52
	Say				**248.00**

14.15.4160 mm dia (OD-160 mm & ID-135 mm nominal)

Details of cost for 50 meter

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2894	160 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	228.00	11970.00
2899	160 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	168.00	336.00
	Total cost of materials				**12306.00**
	Cartage @ 1 %				123.06
	LABOUR				
1007	Khallasi (2 nos for 1.0 day)	day	2.00	663.00	1326.00
	TOTAL				**13755.06**
	Add 12% GST (MF= 0.1405)				**1932.59**
	TOTAL				**15687.65**
	Add 15 % Over Head & Contractor Profit				**2353.15**
	TOTAL				**18040.79**
	Cost for 50 meter				**18040.79**
	Rate per meter				360.82
	Say				**361.00**

14.15.5200 mm dia (OD-200 mm & ID-175 mm nominal)

Details of cost for 50 meter

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2895	200 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	360.00	18900.00
2900	200 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	234.00	468.00
	Total cost of materials				**19368.00**
	Cartage @ 1 %				193.68
	LABOUR				
1007	Khallasi (2 nos for 1.0 day)	day	2.00	663.00	1326.00
	TOTAL				**20887.68**
	Add 12% GST (MF= 0.1405)				**2934.72**
	TOTAL				**23822.40**
	Add 15 % Over Head & Contractor Profit				**3573.36**
	TOTAL				**27395.76**
	Cost for 50 meter				**27395.76**
	Rate per meter				547.92
	Say				**548.00**

14.16 Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required

14.16.163 mm dia (OD-63 mm & ID-51 mm nominal)

Details of cost for 50 meter

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2891	63 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5 m	meter	52.50	78.00	4095.00
2896	63 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	16.00	32.00
	Total cost of materials				**4127.00**
	Cartage @ 1 %				41.27
	LABOUR				
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**4831.27**
	Add 12% GST (MF= 0.1405)				**678.79**
	TOTAL				**5510.06**
	Add 15 % Over Head & Contractor Profit				**826.51**
	Excavation i/c refilling etc. as required	cu.m	9.19	654.00	**6010.26**
	TOTAL				**12346.83**
	Cost for 50 meter				**12346.83**
	Rate per meter				246.94
	Say				**247.00**

14.16.290 mm dia (OD-90 mm & ID-76 mm nominal)

Details of cost for 50 meter

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2892	90 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	108.00	5670.00
2897	90 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	72.00	74.00
	Total cost of materials				**5744.00**
	Cartage @ 1 %				57.44
	LABOUR				
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**6464.44**

	Add 12% GST (MF= 0.1405)				**908.25**
	TOTAL				**7372.69**
	Add 15 % Over Head & Contractor Profit				**1105.90**
	Excavation i/c refilling etc. as required	cu.m	9.19	654.00	**6010.26**
	TOTAL				**14488.86**
	Cost for 50 meter				14488.86
	Rate per meter				289.78
	Say				**290.00**

14.16.3 120 mm dia (OD-120 mm & ID-103 mm nominal)

Details of cost for 50 meter

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2893	120 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	156.00	8190.00
2898	120 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	84.00	168.00
	Total cost of materials				8358.00
	Cartage @ 1 %				83.58
	LABOUR				
1007	Khallasi	day	1.50	663.00	994.50
	TOTAL				**9436.08**
	Add 12% GST (MF= 0.1405)				**1325.77**
	TOTAL				**10761.85**
	Add 15 % Over Head & Contractor Profit				**1614.28**
	Excavation i/c refilling etc. as required	cu.m	9.19	654.00	**6010.26**
	TOTAL				**18386.39**
	Cost for 50 meter				**18386.39**
	Rate per meter				367.73
	Say				**368.00**

14.16.4 160 mm dia (OD-160 mm & ID-135 mm nominal)

Details of cost for 50 meter

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2894	160 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	228.00	11970.00
2899	160 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	168.00	336.00
	Total cost of materials				**12306.00**
	Cartage @ 1 %				123.06
	LABOUR				

1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**13755.06**
	Add 12% GST (MF= 0.1405)				**1932.59**
	TOTAL				**15687.65**
	Add 15 % Over Head & Contractor Profit				**2353.15**
	Excavation i/c refilling etc. as required	cu.m	9.19	654.00	**6010.26**
	TOTAL				**24051.05**
	Cost for 50 meter				**24051.05**
	Rate per meter				481.02
	Say				**481.00**

14.16.5200 mm dia (OD-200 mm & ID-175 mm nominal)

Details of cost for 50 meter

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
2895	200 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	meter	52.50	360.00	18900.00
2900	200 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	234.00	468.00
	Total cost of materials				**19368.00**
	Cartage @ 1 %				193.68
	LABOUR				
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**20887.68**
	Add 12% GST (MF= 0.1405)				**2934.72**
	TOTAL				**23822.40**
	Add 15 % Over Head & Contractor Profit				**3573.36**
	Excavation i/c refilling etc. as required	cu.m	9.19	654.00	**6010.26**
	TOTAL				**33406.02**
	Cost for 50 meter				**33406.02**
	Rate per meter				668.12
	Say				**668.00**

CHAPTER 15 LIGHTING CONTROL

15.1 Supplying,installation,testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor having high preformance, non regulating programmable type, suitable for connected load upto 10 A , for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.

COST FOR 1 nos.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1445	Passive Infrared(PIR) technology based occupancy sensor having high preformance non regulating programmable type having suitable for connected load upto 10 A and suitable for mounting up to height of 2.8mtr and suitable for area of minimum diameter 5m	Each	1	3183.00	3183
	Cartage @ 1 % of A1				31.83
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**3508.63**
	Add 12% GST (MF= 0.1405)				**492.96**
	TOTAL				**4001.59**
	OVERHEADS & PROFIT @ 15 %				**600.24**
	TOTAL				**4601.83**
	Rate for 1nos.				4601.83
	Say				**4602.00**

15.2 Supplying,installation,testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor with day light dimming(lighting level shall be regulated as per availability of natural day light in an area along with occupancy detection.) having high preformance, regulating programmable type, suitable for connected load upto 10 A, for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.

COST FOR 1 nos.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1446	Passive Infrared(PIR) technology based occupancy sensor with day light dimming having high preformance regulating programmable type having suitable for connected load upto 10 A and suitable for	each	1	6632.00	6632

	mounting up to height of 2.8 mtr and suitable for area of minimum diameter 5m				
	Cartage @ 1 % of A1				66.32
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**6992.12**
	Add 12% GST (MF= 0.1405)				**982.39**
	TOTAL				**7974.51**
	OVERHEADS & PROFIT @ 15 %				**1196.18**
	TOTAL				**9170.69**
	Rate for 1nos.				9170.69
	Say				**9171.00**

15.3 Supplying,installation,testing and commissioning of Microwave technology based occupancy sensor having high preformance, non regulating programmable type, suitable for connected load upto 10 A, for mounting height up to 2.6 mtr and for 5m X 20m coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.

COST FOR 1 nos.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1447	Microwave technology based occupancysensor having high preformance non regulating programmable type having suitable for connected load upto 10 A and suitable for mounting up to height of 2.6 mtr and suitable for area of minimum 5m X 20m	each	1	8687.00	8687
	Cartage @ 1 % of A1				86.87
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**9067.67**
	Add 12% GST (MF= 0.1405)				**1274.01**
	TOTAL				**10341.68**
	OVERHEADS & PROFIT @ 15 %				**1551.25**
	TOTAL				**11892.93**
	Rate for 1nos.				11892.93
	Say				**11893.00**

15.4 Supplying,installation,testing and commissioning of Astronomical time switch capable of following output in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.

15.4.1 1 output per phase and suitable for single phase supply

COST FOR 1 nos.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1448	Astronomical time switch capable of following output in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status suitable for 1 output per phase and suitable for single phase supply	each	1	3022.00	3022
	Cartage @ 1 % of A1				30.22
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**3346.02**
	Add 12% GST (MF= 0.1405)				**470.12**
	TOTAL				**3816.14**
	OVERHEADS & PROFIT @ 15 %				**572.42**
	TOTAL				**4388.56**
	Rate for 1nos.				4388.56
	Say				**4389.00**

15.4.2 2 output per phase and suitable for single phase supply

COST FOR 1 nos.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				

1449	Astronomical time switch capable of following output in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status suitable for 2 output per phase and suitable for single phase supply	each	1	6169.00	6169
	Cartage @ 1 % of A1				61.69
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**6524.49**
	Add 12% GST (MF= 0.1405)				**916.69**
	TOTAL				**7441.18**
	OVERHEADS & PROFIT @ 15 %				**1116.18**
	TOTAL				**8557.36**
	Rate for 1nos.				8557.36
	Say				**8557.00**

15.4.3 3output(1output per phase) and suitable for three phase supply

COST FOR 1 nos.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	MATERIALS				
1450	Astronomical time switch capable following output in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status suitable for 3output(1output per phase) and suitable for three phase supply	each	1	7709.00	7709
	Cartage @ 1 % of A1				77.09
	LABOUR				
1001	Wireman	day	0.20	806.00	161.20
1007	Khallasi	day	0.20	663.00	132.60
	TOTAL				**8079.89**
	Add 12% GST (MF= 0.1405)				**1135.22**
	TOTAL				**9215.11**
	OVERHEADS & PROFIT @ 15 %				**1382.27**
	TOTAL				**10597.38**
	Rate for 1nos.				10597.38
	Say				**10597.00**

CHAPTER-16 HVAC(ONLY PLUMBING, DUCTING & AHU)

PLUMBING

INSULATED CHILLED WATER PIPING (resin bonded fiber glass / Mineral Wool

16.1 Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with 80 kg/cum density resin bonded fiber glass or 144 Kg / cu m density mineral wool insulation (non combustible) pipe section insulation covered with a layer of 120 gm/sqm polythene sheet (vapour barrier) and finally applying 0.63mm aluminium sheet cladding complete with type 3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date) at joints and repairing of damage to building etc. as per specifications and as required.

Note:The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.

16.1.1 Chilled water piping of nominal size - 400mm dia. (75mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3001	A(1) Basic Price M.S. Pipe - 400 mm dia.	Per meter	10	10269.70	102697.00
	add for wastage@5%				5134.85
	Total of (Al)				**107831.85**
	A(2) Add for necessarybrackets supportssaddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				16174.78
	Total of (Al+A2)				**124006.63**
4001	**A(3) Basic Price of Insulation (pipe section) 75 mm**	per meter	10	1850.34	18503.39
	add for wastagee@10%				1850.34
	Total of (A3)				**20353.73**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	16.6526	360.00	5994.94
	Add for wastage@10%				599.49
	Total of(A4)				**6594.43**
	Total of (A(1)+A(2)+A(3)+A(4))				**150954.79**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				1509.55
	Total of A				**152464.33**

	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	806.00	2418.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.75	734.00	550.50
1007	Helper	per day	4.75	663.00	3149.25
	Total of B(1)				**6923.75**
	B(2) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(2)				**1836.25**
	B(3) For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (3)				**1836.25**
	Total of B				**10596.25**
	Total A+B				**163060.58**
	Add 12% GST (MF= 0.1405)				**22910.01**
	TOTAL				**185970.60**
	C Overhead and Profits @ 15% of (A+B)				**27895.59**
	Total				**213866.19**
	Rate for 1 meter				21386.62
	TOTAL				**21386.62**
	OR SAY Rs.				**21387.00**

16.1.2 Chilled water piping of nominal size - 350mm dia. (75mm thick insulation)

COST FOR 10 METRES PIPE

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3002	A(1) Basic Price M.S. Pipe - 350 mm dia.	per meter	10	5026.00	50260.00
	add for wastage@5%				2513.00
	Total of (Al)				**52773.00**
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				7915.95
	Total of (Al+A2)				**60688.95**
4002	**A(3) Basic Price of Insulation - 75 mm**	per meter	10	1654.32	16543.22
	add for wastage@10%				1654.32
	Total of A(3)				**18197.54**

3023	**A(4) Pipe aluminium Cladding**	per sq meter	15.0816	360.00	5429.38
	add for wastage@10%				542.94
	Total of A(4)				**5972.31**
	Total of (A(1)+A(2)+A(3)+A(4))				**84858.81**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				848.59
	Total of A				**85707.39**
	B (Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	806.00	2418.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.75	734.00	550.50
1007	Helper	per day	4.75	663.00	3149.25
	Total of B(1)				**6923.75**
	B(2) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(2)				**1836.25**
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
	Helper	per day	1.25	663.00	828.75
	Total of B (3)				**1836.25**
	Total of B				**10596.25**
	Total A+B				**96303.64**
	Add 12% GST (MF= 0.1405)				**13530.66**
	TOTAL				**109834.31**
	C Overhead and Profits @ 15% of (A+B)				**16475.15**
	Total				**126309.45**
	Rate for 1 meter				12630.95
	TOTAL				**12630.95**
	OR SAY Rs.				**12631.00**

16.1.3 Chilled water piping of nominal size - 300mm dia. (75mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3003	A(1) Basic Price M.S. Pipe-300 mm dia.	per meter	10	4369.40	43694.00
	add for wastage@5%				2184.70
	Total of (Al)				**45878.70**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				6881.81
	Total of (Al+A2)				**52760.51**

4003	**A(3) Basic Price of Insulation (Pipe Section) - 75 mm**	per meter	10	1356.10	13561.02
	add for wastage@10%				1356.10
	Total of A(3)				**14917.12**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	13.5106	360.00	4863.82
	add for wastage@10%				486.38
	Total of A(4)				**5350.20**
	Total of (A(1)+A(2)+A(3)+A(4))				**73027.82**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				730.28
	Total of A				**73758.10**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	806.00	2418.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.75	734.00	550.50
1007	Helper	per day	4.75	663.00	3149.25
	Total of B(1)				**6923.75**
	B(2) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(2)				**1836.25**
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (3)				**1836.25**
	Total of B				**10596.25**
	Total A+B				84354.35
	Add 12% GST (MF= 0.1405)				**11851.79**
	TOTAL				**96206.14**
	C Overhead and Profits @ 15% of (A+B)				**14430.92**
	Total				**110637.06**
	Rate for 1 meter				11063.71
	TOTAL				**11063.71**
	OR SAY Rs.				**11064.00**

16.1.4 Chilled water piping of nominal size - 250mm dia. (75mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3004	A(1) Basic Price M.S. Pipe - 250 mm dia.	per meter	10	3684.10	36841.00
	add for wastage@5%				1842.05
	Total of (AI)				**38683.05**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				5802.46
	Total of (AI+A2)				**44485.51**
4004	**A(3) Basic Price of Insulation - 75 mm**	per meter	10	1184.49	11844.92
	add for wastage@10%				1184.49
	Total of A(3)				**13029.41**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	10.997	360.00	3958.92
	add for wastage@10%				395.89
	Total of A(4)				**4354.81**
	Total of (A(1)+A(2)+A(3)+A(4))				**61869.73**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				618.70
	Total of A				**62488.42**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	806.00	2015.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	4	663.00	2652.00
	Total of B(1)				**5840.00**
	B(2) For Insulation works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B(2)				**1469.00**
	For Cladding works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B (3)				**1469.00**
	Total of B				**8778.00**
	Total A+B				71266.42
	Add 12% GST (MF= 0.1405)				**10012.93**
	TOTAL				**81279.36**
	C Overhead and Profits @ 15% of (A+B)				**12191.90**
	Total				**93471.26**
	Rate for 1 meter				9347.13
	TOTAL				**9347.13**
	OR SAY Rs.				**9347.00**

16.1.5 Chilled water piping of nominal size - 200mm dia. (75mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3005	A(1) Basic Price M.S. Pipe - 200 mm dia.	per meter	10	2936.50	29365.00
	add for wastage@5%				1468.25
	Total of (AI)				**30833.25**
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				4624.99
	Total of (AI+A2)				**35458.24**
4005	**A(3) Basic Price of Insulation - 75 mm**	per meter	10	1002.97	10029.66
	add for wastage@10%				1002.97
	Total of A(3)				**11032.63**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	9.426	360.00	3393.36
	add for wastage@10%				339.34
	TOTAL				**3732.70**
	Total of (A(1)+A(2)+A(3)+A(4))				**50223.56**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				502.24
	Total of A				**50725.80**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	806.00	2015.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	4	663.00	2652.00
	Total of B(1)				**5840.00**
	B(2) For Insulation works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B(2)				**1469.00**
	For Cladding works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B (3)				**1469.00**
	Total of B				**8778.00**
	Total A+B				59503.80
	Add 12% GST (MF= 0.1405)				**8360.28**
	TOTAL				**67864.08**

	C Overhead and Profits @ 15% of (A+B)	10179.61
	Total	78043.69
	Rate for 1 meter	7804.37
	TOTAL	7804.37
	OR SAY Rs.	7804.00

16.1.6 Chilled water piping of nominal size - 150mm dia. (50mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3006	A(1) Basic Price M.S.Pipe-150mm dia.	per meter	10	1815.80	18158.00
	add for wastage@5%				907.90
	Total of (Al)				**19065.90**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				2859.89
	Total of (Al+A2)				**21925.79**
4006	**A(3) Basic Price of Insulation - 50 mm**	per meter	10	507.20	5072.03
	add for wastage@10%				507.20
	Total of A(3)				**5579.24**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	7.855	360.00	2827.80
	add for wastage@10%				282.78
	Total of A(4)				**3110.58**
	Total of (A(1)+A(2)+A(3)+A(4))				**30615.60**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				306.16
	Total of A				**30921.76**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	3.5	663.00	2320.50
	Total of B(1)				**5105.50**
	B(2) For Insulation works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B(2)				**1469.00**
	For Cladding works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B (3)				**1469.00**
	Total of B				**8043.50**

	Total A+B	38965.26
	Add 12% GST (MF= 0.1405)	5474.62
	TOTAL	44439.88
	C Overhead and Profits @ 15% of (A+B)	6665.98
	Total	51105.86
	Rate for 1 meter	5110.59
	TOTAL	5110.59
	OR SAY Rs.	5111.00

16.1.7 Chilled water piping of nominal size - 125mm dia. (50mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3007	A(1) Basic Price M.S. Pipe-125mm dia.	per meter	10	1526.00	15260.00
	add for wastage@5%				763.00
	Total of (Al)				**16023.00**
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				2403.45
	Total of (Al+A2)				**18426.45**
4007	A(3) Basic Price of Insulation-50 mm	per meter	10	447.71	4477.12
	add for wastage@10%				447.71
	Total of A(3)				**4924.83**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	6.4411	360.00	2318.80
	add for wastage@10%				231.88
	Total of A(4)				**2550.68**
	Total of (A(1)+A(2)+A(3)+A(4))				**25901.96**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				259.02
	Total of A				**26160.98**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	0.75	806.00	604.50
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	3.25	663.00	2154.75
	Total of B(1)				**4738.25**
	B(2) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(2)				**1101.75**
	For Cladding works				

1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B (3)				**1101.75**
	Total of B				**6941.75**
	Total A+B				**33102.73**
	Add 12% GST (MF= 0.1405)				**4650.93**
	TOTAL				**37753.66**
	C Overhead and Profits @ 15% of (A+B)				**5663.05**
	Total				**43416.71**
	Rate for 1 meter				4341.67
	TOTAL				**4341.67**
	OR SAY Rs.				**4342.00**

16.1.8 Chilled water piping of nominal size - 100mm dia. (50mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3008	A(1) Basic Price M.S. Pipe-100mm dia.	per meter	10	1237.60	12376.00
	add for wastage@5%				618.80
	Total of (Al)				**12994.80**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1949.22
	Total of (Al+A2)				**14944.02**
4008	A(3) Basic Price of Insulation - 50 mm	per meter	10	200.59	2005.93
	add for wastage@10%				200.59
	Total of A(3)				**2206.53**
3023	A(4) Pipe aluminium Cladding	per sq meter	5.6556	360.00	2036.02
	add for wastage@10%				203.60
	Total of A(4)				**2239.62**
	Total of (A(1)+A(2)+A(3)+A(4))				**19390.16**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				193.90
	Total of A				**19584.06**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	806.00	2015.00
1087	Welder	per day	0.75	806.00	604.50
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	3.25	663.00	2154.75
	Total of B(1)				**4957.75**

	B(2) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(2)				**1101.75**
	For Cladding works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B (3)				**1101.75**
	Total of B				**7161.25**
	Total A+B				**26745.31**
	Add 12% GST (MF= 0.1405)				**3757.72**
	TOTAL				**30503.03**
	C Overhead and Profits @ 15% of (A+B)				**4575.45**
	Total				**35078.49**
	Rate for 1 meter				3507.85
	TOTAL				**3507.85**
	OR SAY Rs.				**3508.00**

16.1.9 Chilled water piping of nominal size - 80mm dia. (50mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3009	A(1) Basic Price M.S. Pipe-80 mm dia.	per meter	10	848.40	8484.00
	add for wastage@5%				424.20
	Total of (Al)				**8908.20**
	A(2) Add for necessary brackets,supports saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				1336.23
	Total of (Al+A2)				**10244.43**
4009	A(3) Basic Price of Insulation - 50 mm	per meter	10	331.02	3310.17
	add for wastage@10%				331.02
	Total of A(3)				**3641.19**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	4.0846	360.00	1470.46
	add for wastage@10%				147.05
	Total of A(4)				**1617.50**
	Total of (A(1)+A(2)+A(3)+A(4))				**15503.12**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				155.03
	Total of A				**15658.15**
	B(Labour)				
	B(1) For Piping work				

1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	0.5	806.00	403.00
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2.75	663.00	1823.25
	Total of B(1)				**4021.75**
	B(2) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(2)				**1101.75**
	For Cladding works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B (3)				**1101.75**
	Total of B				**6225.25**
	Total A+B				21883.40
	Add 12% GST (MF= 0.1405)				**3074.62**
	TOTAL				**24958.02**
	C Overhead and Profits @ 15% of (A+B)				**3743.70**
	Total				**28701.72**
	Rate for 1 meter				2870.17
	TOTAL				**2870.17**
	OR SAY Rs.				**2870.00**

16.1.10 Chilled water piping of nominal size - 65mm dia. (50mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3010	A(1) Basic Price M.S.Pipe-65 mm dia.	per meter	10	679.00	6790.00
	add for wastage@5%				339.50
	Total of (Al)				7129.50
	A(2) Add for necessary brackets,supports saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				**1069.43**
	Total of (Al+A2)				**8198.93**
4010	A(3) Basic Price of Insulation - 50 mm	per meter	10	299.75	2997.46
	add for wastage@10%				299.75
	Total of A(3)				**3297.20**
3023	A(4) Pipe aluminium Cladding	per sq meter	3.6133	360.00	1300.79
	add for wastage@10%				130.08
	Total of A(4)				**1430.87**
	Total of (A(1)+A(2)+A(3)+A(4))				**12927.00**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				129.27

	Total of A				**13056.27**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	0.5	806.00	403.00
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2.75	663.00	1823.25
	Total of B(1)				**4021.75**
	B(2) For Insulation works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B(2)				**734.50**
	For Cladding works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B (3)				**734.50**
	Total of B				**5490.75**
	Total A+B				**18547.02**
	Add 12% GST (MF= 0.1405)				**2605.86**
	TOTAL				**21152.87**
	C Overhead and Profits @ 15% of (A+B)				**3172.93**
	Total				**24325.80**
	Rate for 1 meter				2432.58
	TOTAL				**2432.58**
	OR SAY Rs.				**2433.00**

16.1.11 Chilled water piping of nominal size - 50mm dia. (50mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3011	A(1) Basic Price M.S. Pipe-50 mm dia.	per meter	10	531.30	5313.00
	add for wastage@5%				265.65
	Total of (AI)				**5578.65**
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				836.80
	Total of (AI+A2)				**6415.45**
4011	A(3) Basic Price of Insulation - 50 mm	per meter	10	261.61	2616.10
	add for wastage@10%				261.61
	Total of A(3)				**2877.71**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	3.142	360.00	1131.12
	add for wastage@10%				113.11
	Total of A(4)				**1244.23**

	Total of (A(1)+A(2)+A(3)+A(4))				**10537.39**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				105.37
	Total of A				**10642.77**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	806.00	1209.00
1087	Welder	per day	0.5	806.00	403.00
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2.25	663.00	1491.75
	Total of B(1)				**3287.25**
	B(2) For Insulation works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B(2)				**734.50**
	For Cladding works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B (3)				**734.50**
	Total of B				**4756.25**
	Total A+B				**15399.02**
	Add 12% GST (MF= 0.1405)				**2163.56**
	TOTAL				**17562.58**
	C Overhead and Profits @ 15% of (A+B)				**2634.39**
	Total				**20196.96**
	Rate for 1 meter				2019.70
	TOTAL				**2019.70**
	OR SAY Rs.				**2020.00**

16.1.12 Chilled water piping of nominal size - 40mm dia. (50mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3012	A(1) Basic Price M.S. Pipe-40 mm dia.	per meter	10	376.60	3766.00
	add for wastage@5%				188.30
	Total of (Al)				**3954.30**
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				593.15
	Total of (Al+A2)				**4547.45**
4012	**A(3) Basic Price of Insulation - 50 mm**	per meter	10	235.68	2356.78
	add for wastage@10%				235.68
	Total of A(3)				**2592.46**

3023	A(4) Pipe aluminium Cladding	per sq meter	2.8278	360.00	1018.01
	add for wastage@10%				101.80
	Total of A(4)				**1119.81**
	Total of (A(1)+A(2)+A(3)+A(4))				**8259.71**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				82.60
	Total of A				**8342.31**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	806.00	1209.00
1087	Welder	per day	0.5	806.00	403.00
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2.25	663.00	1491.75
	Total of B(1)				**3287.25**
	B(2) For Insulation works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B(2)				**734.50**
	For Cladding works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B (3)				**734.50**
	Total of B				**4756.25**
	Total A+B				13098.56
	Add 12% GST (MF= 0.1405)				**1840.35**
	TOTAL				**14938.91**
	C Overhead and Profits @ 15% of (A+B)				**2240.84**
	Total				**17179.74**
	Rate for 1 meter				1717.97
	TOTAL				**1717.97**
	OR SAY Rs.				**1718.00**

16.1.13 Chilled water piping of nominal size - 32mm dia. (50mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3013	A(1) Basic Price M.S. Pipe-32 mm dia.	per meter	10	326.20	3262.00
	add for wastage@5%				163.10
	Total of (Al)				**3425.10**
	A(2) Add for necessary brackets,supports saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				513.77
	Total of (Al+A2)				**3938.87**

4013	A(3) Basic Price of Insulation-50 mm	per meter	10	221.95	2219.49
	add for wastage@10%				221.95
	Total of A(3)				**2441.44**
3023	A(4) Pipe aluminium Cladding	per sq meter	2.57644	360.00	927.52
	add for wastage@10%				92.75
	Total of A(4)				**1020.27**
	Total of (A(1)+A(2)+A(3)+A(4))				7400.58
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				74.01
	Total of A				**7474.58**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.25	806.00	1007.50
1087	Welder	per day	0.25	806.00	201.50
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	1.75	663.00	1160.25
	Total of B(1)				**2552.75**
	B(2) For Insulation works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B(2)				**734.50**
	For Cladding works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B (3)				**734.50**
	Total of B				**4021.75**
	Total A+B				11496.33
	Add 12% GST (MF= 0.1405)				**1615.23**
	TOTAL				**13111.57**
	C Overhead and Profits @ 15% of (A+B)				**1966.73**
	Total				**15078.30**
	Rate for 1 meter				1507.83
	TOTAL				**1507.83**
	OR SAY Rs.				**1508.00**

16.1.14 Chilled water piping of nominal size - 25mm dia. (50mm thick insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3014	A(1) Basic Price M.S. Pipe - 25 mm dia.	per meter	10	255.50	2555.00
	Add for wastage@5%				127.75
	Total of (Al)				**2682.75**

	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				402.41
	Total of (AI+A2)				**3085.16**
4014	A(3) Basic Price of Insulation - 50 mm	per meter	10	202.12	2021.19
	add for wastage@10%				202.12
	Total of A(3)				**2223.31**
3023	A(4) Pipe aluminium Cladding	per sq meter	2.3565	360.00	848.34
	add for wastage@10%				84.83
	Total of A(4)				**933.17**
	Total of (A(1)+A(2)+A(3)+A(4))				**6241.64**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				62.42
	Total of A				**6304.06**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.25	806.00	1007.50
1087	Welder	per day	0.25	806.00	201.50
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	1.75	663.00	1160.25
	Total of B(1)				**2552.75**
	B(2) For Insulation works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B(2)				**734.50**
	For Cladding works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B (3)				**734.50**
	Total of B				**4021.75**
	Total A+B				**10325.81**
	Add 12% GST (MF= 0.1405)				**1450.78**
	TOTAL				**11776.58**
	C Overhead and Profits @ 15% of (A+B)				**1766.49**
	Total				**13543.07**
	Rate for 1 meter				1354.31
	TOTAL				**1354.31**
	OR SAY Rs.				**1354.00**

16.2 Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with following closed cell elastometric nitrile rubber of minimum 45 Kg / cu m density, thermal conductivity 0.037 W/MK or better at 20 deg mean temperature class 'O' insulation applied by suitable rubber based adhesive complete including repairing of damage to building etc. as per specifications and as required complete in all respect.

Note:-The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.

16.2.1 Chilled water piping of nominal size - 400mm dia. (32mm thick nitrile rubber insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3001	A(1) Basic Price M.S. Pipe - 400 mm dia.	per meter	10	10269.70	102697.00
	add for wastage@5%				5134.85
	Total of (Al)				**107831.85**
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				16174.78
	Total of (Al+A2)				**124006.63**
4015	A(3) Basic Price of Insulation - 32 mm nitrile rubber	per sq meter	12.568	669.66	8416.30
	add for wastage@10%				**841.63**
	Total of A(3)				9257.93
3023	A(4) Non-Metallic Composite Cladding	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				**0.00**
	Total of (A(1)+A(2)+A(3)+A(4))				**133264.56**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				1332.65
	Total of A				**134597.20**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	806.00	2418.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.75	734.00	550.50
1007	Helper	per day	4.75	663.00	3149.25

	Total of B(1)				**6923.75**
	B(2) For Insulation works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B(2)				**1469.00**
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				**8392.75**
	Total A+B				142989.95
	Add 12% GST (MF= 0.1405)				**20090.09**
	TOTAL				**163080.04**
	C Overhead and Profits @ 15% of (A+B)				**24462.01**
	Total				**187542.05**
	Rate for 1 meter				18754.20
	TOTAL				**18754.20**
	OR SAY Rs.				**18754.00**

16.2.2 Chilled water piping of nominal size - 350mm dia. (32mm thick nitrile rubber)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3002	A(1) Basic Price M.S. Pipe - 350mm dia.	per meter	10	5026.00	50260.00
	add for wastage@5%				2513.00
	Total of (AI)				52773.00
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				7915.95
	Total of (AI+A2)				60688.95
4015	A(3) Basic Price of Insulation - 32 mm nitrile rubber	per sq meter	10.997	669.66	7364.26
	add for wastage@10%				736.43
	Total of A(3)				8100.69
3023	A(4) Pipe aluminium Cladding	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				68789.64
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				687.90
	Total of A				69477.53

	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	806.00	2418.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.75	734.00	550.50
1007	Helper	per day	4.75	663.00	3149.25
	Total of B(1)				6923.75
	B(2) For Insulation works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B(2)				1469.00
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				8392.75
	Total A+B				**77870.28**
	Add 12% GST (MF= 0.1405)				**10940.78**
	TOTAL				**88811.06**
	C Overhead and Profits @ 15% of (A+B)				**13321.66**
	Total				102132.72
	Rate for 1 meter				10213.27
	TOTAL				10213.27
	OR SAY Rs.				10213.00

16.2.3 Chilled water piping of nominal size - 300mm dia. (32mm thick nitrile rubber insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3003	A(1) Basic Price M.S. Pipe - 300 mm dia.	per meter	10	4369.40	43694.00
	add for wastage@5%				2184.70
	Total of (AI)				45878.70
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				6881.81
	Total of (AI+A2)				52760.51
4015	A(3) Basic Price of Insulation - 32 mm nitrile rubber	per sq meter	9.429	669.66	6314.23
	add for wastage@10%				631.42
	Total of A(3)				6945.66

3023	A(4) Pipe aluminium Cladding	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				59706.16
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				597.06
	Total of A				60303.22
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	806.00	2418.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.75	361.00	270.75
1007	Helper	per day	4.75	663.00	3149.25
	Total of B(1)				6644.00
	B(2) For Insulation works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B(2)				1469.00
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				8113.00
	Total A+B				68416.22
	Add 12% GST (MF= 0.1405)				**9612.48**
	TOTAL				**78028.70**
	C Overhead and Profits @ 15% of (A+B)				**11704.31**
	Total				89733.01
	Rate for 1 meter				8973.30
	TOTAL				8973.30
	OR SAY Rs.				8973.00

16.2.4 Chilled water piping of nominal size - 250mm dia. (32mm thick nitrile rubber insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3004	A(1) Basic Price M.S. Pipe - 250 mm dia.	per meter	10	3684.10	36841.00
	add for wastage@5%				1842.05
	Total of (AI)				38683.05
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				5802.46
	Total of (AI+A2)				44485.51

4015	A(3) Basic Price of Insulation - 32 mm nitrile rubber	per sq meter	9.426	669.66	6312.22
	add for wastage@10%				631.22
	Total of A(3)				6943.45
3023	A(4) Pipe aluminium Cladding	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				51428.95
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				514.29
	Total of A				51943.24
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	806.00	2015.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	4	663.00	2652.00
	Total of B(1)				5840.00
	B(2) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(2)				1101.75
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				6941.75
	Total A+B				**58884.99**
	Add 12% GST (MF= 0.1405)				**8273.34**
	TOTAL				**67158.34**
	C Overhead and Profits @ 15% of (A+B)				**10073.75**
	Total				77232.09
	Rate for 1 meter				7723.21
	TOTAL				7723.21
	OR SAY Rs.				7723.00

16.2.5 Chilled water piping of nominal size - 200mm dia. (32mm thick nitrile rubber)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3005	A(1) Basic Price M.S. Pipe - 200 mm dia.	per meter	10	2936.50	29365.00
	add for wastage@5%				1468.25
	Total of (AI)				30833.25
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				4624.99
	Total of (AI+A2)				35458.24
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber	per sq meter	6.5	669.66	4352.80
	add for wastage@10%				435.28
	Total of A(3)				4788.08
3023	A(4) Pipe aluminium Cladding	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				40246.31
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				402.46
	Total of A				40648.78
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	806.00	2015.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	4	663.00	2652.00
	Total of B(1)				5840.00
	B(2) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(2)				1101.75
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				6941.75
	Total A+B				47590.53
	Add 12% GST (MF= 0.1405)				**6686.47**
	TOTAL				**54277.00**
	C Overhead and Profits @ 15% of (A+B)				**8141.55**
	Total				**62418.55**
	Rate for 1 meter				6241.85
	TOTAL				6241.85
	OR SAY Rs.				6242.00

16.2.6 Chilled water piping of nominal size - 150mm dia. (32mm thick nitrile rubber)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3006	A(1) Basic Price M.S. Pipe - 150 mm dia.	per meter	10	1815.80	18158.00
	add for wastage@5%				907.90
	Total of (AI)				19065.90
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				2859.89
	Total of (AI+A2)				21925.79
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber	per sq meter	4.75	669.66	3180.89
	add for wastage@10%				318.09
	Total of A(3)				3498.98
3023	A(4) Pipe aluminium Cladding	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				25424.76
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				254.25
	Total of A				25679.01
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	806.00	2015.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	4	663.00	2652.00
	Total of B(1)				5840.00
	B(2) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(2)				1101.75
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				6941.75
	Total A+B				32620.76
	Add 12% GST (MF= 0.1405)				4583.22
	TOTAL				37203.98
	C Overhead and Profits @ 15% of (A+B)				5580.60
	Total				42784.58
	Rate for 1 meter				4278.46
	TOTAL				4278.46
	OR SAY Rs.				4278.00

16.2.7 Chilled water piping of nominal size - 125mm dia. (32mm thick nitrile rubber insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3007	A(1) Basic Price M.S. Pipe - 125 mm dia.	per meter	10	1526.00	15260.00
	add for wastage@5%				763.00
	Total of (Al)				**16023.00**
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration -isolators and fittings such as bends, tees etc. @ 15%				2403.45
	Total of (Al+A2)				**18426.45**
4015	**A(3) Basic Price of Insulation - 32 mm thick nitrile rubber**	per sq meter	4.5	669.66	3013.47
	add for wastage@10%				301.35
	Total of A(3)				**3314.82**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				**0.00**
	Total of (A(1)+A(2)+A(3)+A(4))				**21741.27**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				217.41
	Total of A				**21958.68**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	806.00	2015.00
1087	Welder	per day	0.75	806.00	604.50
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	3.75	663.00	2486.25
	Total of B(1)				**5472.75**
	B(2) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(2)				1101.75
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				**6574.50**
	Total A+B				**28533.18**
	Add 12% GST (MF= 0.1405)				**4008.91**
	TOTAL				**32542.10**

	C Overhead and Profits @ 15% of (A+B)	**4881.31**
	Total	**37423.41**
	Rate for 1 meter	3742.34
	TOTAL	**3742.34**
	OR SAY Rs.	**3742.00**

16.2.8 Chilled water piping of nominal size - 100mm dia. (32mm thick nitrile rubber insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3008	A(1) Basic Price M.S. Pipe - 100 mm dia.	per meter	10	1237.60	12376.00
	add for wastage@5%				618.80
	Total of (Al)				12994.80
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1949.22
	Total of (Al+A2)				14944.02
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber	per sq meter	3.5	669.66	2343.81
	add for wastage@10%				234.38
	Total of A(3)				2578.19
3023	**A(4) Pipe aluminium Cladding**	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				0.00
	Total of (A(1)+A(2)+A(3)+A(4))				17522.21
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				175.22
	Total of A				17697.44
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	0.75	806.00	604.50
1006	Painter	per day	0.25	328.00	82.00
1007	Helper	per day	3	663.00	1989.00
	Total of B(1)				4287.50
	B(2) For Insulation works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B(2)				734.50
	For Cladding works				

1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				5022.00
	Total A+B				22719.44
	Add 12% GST (MF= 0.1405)				3192.08
	TOTAL				25911.52
	C Overhead and Profits @ 15% of (A+B)				3886.73
	Total				29798.25
	Rate for 1 meter				2979.82
	TOTAL				2979.82
	OR SAY Rs.				2980.00

16.2.9 Chilled water piping of nominal size - 80mm dia. (32mm thick nitrile rubber insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3009	A(1) Basic Price M.S. Pipe - 80 mm dia.	per meter	10	848.40	8484.00
	add for wastage@5%				424.20
	Total of (Al)				**8908.20**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				**1336.23**
	Total of (Al+A2)				**10244.43**
4015	**A(3) Basic Price of Insulation -** 32 mm thick nitrile rubber	per sq meter	2.5136	669.66	1683.26
	add for wastage@10%				168.33
	Total of A(3)				1851.59
3023	**A(4) Pipe aluminium Cladding**	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				**0.00**
	Total of (A(1)+A(2)+A(3)+A(4))				12096.02
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				**120.96**
	Total of A				12216.98
	B(Labour)				
	B(1) For Piping work				
	B(Labour)				
	B(1) For Piping work				

1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	0.5	806.00	403.00
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2.75	663.00	1823.25
	Total of B(1)				**4021.75**
	B(2) For Insulation works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B(2)				**734.50**
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				**0.00**
	Total of B				**4756.25**
	Total A+B				16973.23
	Add 12% GST (MF= 0.1405)				**2384.74**
	TOTAL				**19357.96**
	C Overhead and Profits @ 15% of (A+B)				**2903.69**
	Total				**22261.66**
	Rate for 1 meter				**2226.17**
	TOTAL				2226.17
	OR SAY Rs.				**2226.00**

16.2.10 Chilled water piping of nominal size - 65mm dia. (32mm thick nitrile rubber insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3010	A(1) Basic Price M.S. Pipe - 65 mm dia.	per meter	10	679.00	6790.00
	add for wastage@5%				339.50
	Total of (Al)				7129.50
]	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				**1069.43**
	Total of (Al+A2)				8198.93
4015	**A(3) Basic Price of Insulation - 32 mm thick nitrile rubber**	per sq meter	2.0423	669.66	1367.65
	add for wastage@10%				**136.76**
	Total of A(3)				1504.41
3023	**A(4) Pipe aluminium Cladding**	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				**0.00**
	Total of (A(1)+A(2)+A(3)+A(4))				**9703.34**

	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				97.03
	Total of A				**9800.37**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	806.00	1209.00
1087	Welder	per day	0.5	806.00	403.00
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2.25	663.00	1491.75
	Total of B(1)				**3287.25**
	B(2) For Insulation works				
1004	Fitter	per day	0.4	806.00	322.40
1007	Helper	per day	0.4	663.00	265.20
	Total of B(2)				**587.60**
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				**3874.85**
	Total A+B				13675.22
	Add 12% GST (MF= 0.1405)				**1921.37**
	TOTAL				**15596.59**
	C Overhead and Profits @ 15% of (A+B)				**2339.49**
	Total				**17936.08**
	Rate for 1 meter				1793.61
	TOTAL				**1793.61**
	OR SAY Rs.				**1794.00**

16.2.11 Chilled water piping of nominal size - 50mm dia. (32mm thick fiber glass insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3011	A(1) Basic Price M.S. Pipe - 50 mm dia.	per meter	10	531.30	5313.00
	add for wastage@5%				265.65
	Total of (Al)				**5578.65**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				836.80
	Total of (Al+A2)				**6415.45**
4015	**A(3) Basic Price of Insulation - 32 mm thick nitrile rubber**	per sq meter	2	669.66	**1339.32**

	add for wastage@10%				133.93
	Total of A(3)				**1473.25**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				**0.00**
	Total of (A(1)+A(2)+A(3)+A(4))				**7888.70**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				78.89
	Total of A				**7967.59**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	806.00	1209.00
1087	Welder	per day	0.5	806.00	403.00
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2.25	663.00	1491.75
	Total of B(1)				**3287.25**
	B(2) For Insulation works				
1004	Fitter	per day	0.4	806.00	322.40
1007	Helper	per day	0.4	663.00	265.20
	Total of B(2)				**587.60**
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				**0.00**
	Total of B				**3874.85**
	Total A+B				11842.44
	Add 12% GST (MF= 0.1405)				**1663.86**
	TOTAL				**13506.30**
	C Overhead and Profits @ 15% of (A+B)				**2025.95**
	Total				**15532.25**
	Rate for 1 meter				1553.22
	TOTAL				**1553.22**
	OR SAY Rs.				**1553.00**

16.2.12 Chilled water piping of nominal size - 40mm dia. (32mm thick nitrile rubber insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3012	A(1) Basic Price M.S. Pipe - 40 mm dia.	per meter	10	376.60	3766.00
	add for wastage@5%				188.30
	Total of (Al)				3954.30
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				593.15
	Total of (Al+A2)				4547.45
4015	**A(3) Basic Price of Insulation - 32 mm thick nitrile rubber**	per sq meter	1.5	669.66	1004.49
	add for wastage@10%				100.45
	Total of A(3)				**1104.94**
3023	A(4) Pipe aluminium Cladding	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				**0.00**
	Total of (A(1)+A(2)+A(3)+A(4))				**5652.39**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				56.52
	Total of A				**5708.91**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	806.00	1209.00
1087	Welder	per day	0.5	806.00	403.00
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2.25	663.00	1491.75
	Total of B(1)				**3287.25**
	B(2) For Insulation works				
1004	Fitter	per day	0.4	806.00	322.40
1007	Helper	per day	0.4	663.00	265.20
	Total of B(2)				587.60
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				**0.00**
	Total of B				**3874.85**
	Total A+B				9583.76
	Add 12% GST (MF= 0.1405)				**1346.52**
	TOTAL				**10930.28**
	C Overhead and Profits @ 15% of (A+B)				**1639.54**
	Total				**12569.82**
	Rate for 1 meter				1256.98
	TOTAL				**1256.98**
	OR SAY Rs.				**1257.00**

16.2.13 Chilled water piping of nominal size - 32mm dia. (19mm thick nitrile rubber insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3013	A(1) Basic Price M.S. Pipe - 32 mm dia.	per meter	10	326.20	3262.00
	add for wastage@5%				163.10
	Total of (Al)				**3425.10**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				513.77
	Total of (Al+A2)				3938.87
4016	A(3) Basic Price of Insulation - 19 mm thick nitrile rubber	per sq meter	1.2	370.68	444.81
	add for wastage@10%				44.48
	Total of A(3)				489.29
3023	A(4) Pipe aluminium Cladding	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				**0.00**
	Total of (A(1)+A(2)+A(3)+A(4))				**4428.16**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				44.28
	Total of A				**4472.44**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	806.00	1209.00
1087	Welder	per day	0.25	806.00	201.50
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2	663.00	1326.00
	Total of B(1)				**2920.00**
	B(2) For Insulation works				
1004	Fitter	per day	0.4	806.00	322.40
1007	Helper	per day	0.4	663.00	265.20
	Total of B(2)				587.60
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				**3507.60**
	Total A+B				**7980.04**
	Add 12% GST (MF= 0.1405)				**1121.20**
	TOTAL				**9101.24**
	C Overhead and Profits @ 15% of (A+B)				**1365.19**

	Total	10466.42
	Rate for 1 meter	1046.64
	OR SAY Rs.	1047.00

16.2.14 Chilled water piping of nominal size - 25mm dia. (19mm thick nitrile rubber insulation)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3014	A(1) Basic Price M.S. Pipe - 25 mm dia.	per meter	10	255.50	2555.00
	add for wastage@5%				127.75
	Total of (Al)				**2682.75**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				402.41
	Total of (Al+A2)				**3085.16**
4016	A(3) Basic Price of Insulation - 19 mm thick nitrile rubber	per sq meter	0.9	370.68	333.61
	add for wastage@10%				33.36
	Total of A(3)				**366.97**
3023	A(4) Pipe aluminium Cladding	per sq meter	0	360.00	0.00
	add for wastage@10%				0.00
	Total of A(4)				**0.00**
	Total of (A(1)+A(2)+A(3)+A(4))				**3452.13**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				34.52
	Total of A				**3486.66**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.25	806.00	1007.50
1087	Welder	per day	0.25	806.00	201.50
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	1.75	663.00	1160.25
	Total of B(1)				**2552.75**
	B(2) For Insulation works				
1004	Fitter	per day	0.4	806.00	322.40
1007	Helper	per day	0.4	663.00	**265.20**
	Total of B(2)				587.60
	For Cladding works				

1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (3)				0.00
	Total of B				**3140.35**
	Total A+B				**6627.01**
	Add 12% GST (MF= 0.1405)				**931.09**
	TOTAL				**7558.10**
	C Overhead and Profits @ 15% of (A+B)				**1133.71**
	Total				**8691.81**
	Rate for 1 meter				869.18
	OR SAY Rs.				**869.00**

16.3 Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping plumbing inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with fire retardant quality expanded polystrene moulded pipe section of density 20 kg/cu.m after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500g polythene faced hessain and finally applying 0.63mm aluminium sheet cladding complete with type3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date) at joints repairing of damage to building etc. as per specifications and as required complete in all respect.

Note:-The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.

16.3.1 Chilled water piping of nominal size - 400mm dia. (75mm thick expanded polystrene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3001	A(1) Basic Price M.S. Pipe - 400 mm dia.	per meter	10	10269.70	102697.00
	add for wastage@5%				5134.85
	Total of (Al)				**107831.85**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				16174.78
	Total of (Al+A2)				**124006.63**
4017	**A(3) Basic Price of Insulation - 75 mm**	per meter	10	1047.20	10472.03
	add for wastage@10%				1047.20
	TOTAL 3				**11519.24**

	A(4) Pipe aluminium Cladding	per sq meter	17.281	300.00	5184.30
	add for wastage@10%				518.43
	Total of A(4)				**5702.73**
	Total of (A(1)+A(2)+A(3)+A(4))				141228.59
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				1412.29
	Total of A				**142640.88**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	806.00	2418.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.75	734.00	550.50
1007	Helper	per day	4.75	663.00	3149.25
	Total of B(1)				**6923.75**
	B(2) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(2)				1836.25
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (3)				1836.25
	Total of B				**10596.25**
	Total A+B				**153237.13**
	Add 12% GST (MF= 0.1405)				**21529.82**
	TOTAL				**174766.95**
	C Overhead and Profits @ 15% of (A+B)				**26215.04**
	Total				**200981.99**
	Rate for 1 meter				20098.20
	TOTAL				20098.20
	OR SAY Rs.				**20098.00**

16.3.2 Chilled water piping of nominal size - 350mm dia. (75mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3002	A(1) Basic Price M.S. Pipe - 350 mm dia.	per meter	10	5026.00	50260.00
	add for wastage@5%				2513.00
	Total of (Al)				52773.00
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				7915.95
	Total of (Al+A2)				**60688.95**

4018	A(3) Basic Price of Insulation - 75 mm	per meter	10	895.42	8954.24
	add for wastage@10%				895.42
	Total A(3)				**9849.66**
3023	A(4) Pipe aluminium Cladding	per sq meter	15.71	360.00	5655.60
	add for wastage@10%				565.56
	Total of A(4)				**6221.16**
	Total of (A(1)+A(2)+A(3)+A(4))				**76759.77**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				767.60
	Total of A				**77527.37**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	806.00	2418.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.75	734.00	550.50
1007	Helper	per day	4.75	663.00	3149.25
	Total of B(1)				**6923.75**
	B(2) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(2)				1836.25
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (3)				**1836.25**
	Total of B				**10596.25**
	Total A+B				**88123.62**
	Add 12% GST (MF= 0.1405)				**12381.37**
	TOTAL				**100504.99**
	C Overhead and Profits @ 15% of (A+B)				**15075.75**
	Total				**115580.74**
	Rate for 1 meter				11558.07
	TOTAL				**11558.07**
	OR SAY Rs.				**11558.00**

16.3.3 Chilled water piping of nominal size - 300mm dia. (75mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3003	A(1) Basic Price M.S. Pipe - 300 mm dia.	per meter	10	4369.40	43694.00
	add for wastage@5%				2184.70
	Total of (Al)				**45878.70**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				6881.81
	Total of (Al+A2)				**52760.51**
4019	A(3) Basic Price of Insulation - 75 mm	per meter	10	771.86	7718.64
	add for wastage@10%				771.86
	Total 3A				**8490.51**
3023	A(4) Pipe aluminium Cladding	per sq meter	14.139	360.00	5090.04
	add for wastage@10%				509.00
	Total of A(4)				5599.04
	Total of (A(1)+A(2)+A(3)+A(4))				66850.06
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				668.50
	Total of A				**67518.56**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	806.00	2418.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.75	734.00	550.50
1007	Helper	per day	4.75	663.00	3149.25
	Total of B(1)				**6923.75**
	B(2) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(2)				1836.25
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (3)				**1836.25**
	Total of B				**10596.25**
	Total A+B				**78114.81**
	Add 12% GST (MF= 0.1405)				**10975.13**
	TOTAL				**89089.94**
	C Overhead and Profits @ 15% of (A+B)				**13363.49**
	Total				102453.43
	Rate for 1 meter				10245.34
	TOTAL				**10245.34**
	OR SAY Rs.				**10245.00**

16.3.4 Chilled water piping of nominal size - 250mm dia. (75mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3004	A(1) Basic Price M.S. Pipe - 250 mm dia.	per meter	10	3684.10	36841.00
	add for wastage@5%				1842.05
	Total of (Al)				**38683.05**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				5802.46
	Total of (Al+A2)				**44485.51**
4020	**A(3) Basic Price of Insulation - 75 mm**	per meter	10	644.49	6444.92
	add for wastage@10%				644.49
	Total 3A				**7089.41**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	12.568	360.00	4524.48
	add for wastage@10%				452.45
	Total of A(4)				**4976.93**
	Total of (A(1)+A(2)+A(3)+A(4))				56551.84
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				565.52
	Total of A				**57117.36**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	806.00	2015.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.5	328.00	164.00
1007	Helper	per day	4	663.00	2652.00
	Total of B(1)				**5637.00**
	B(2) For Insulation works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B(2)				**1469.00**
	For Cladding works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B (3)				1469.00
	Total of B				**8575.00**
	Total A+B				**65692.36**
	Add 12% GST (MF= 0.1405)				**9229.78**
	TOTAL				**74922.14**
	C Overhead and Profits @ 15% of (A+B)				**11238.32**
	Total				**86160.46**

	Rate for 1 meter	8616.05
	TOTAL	**8616.05**
	OR SAY Rs.	**8616.00**

16.3.5 Chilled water piping of nominal size - 200mm dia. (75mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3005	A(1) Basic Price M.S. Pipe - 200 mm dia.	per meter	10	2936.50	29365.00
	Add for wastage@5%				1468.25
	Total of (Al)				**30833.25**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				4624.99
	Total of (Al+A2)				**35458.24**
4021	**A(3) Basic Price of Insulation - 75 mm**	per meter	10	549.15	5491.53
	add for wastage@10%				549.15
	Total of A(3)				**6040.68**
3023	A(4) Pipe aluminium Cladding	per sq meter	10.997	360.00	3958.92
	add for wastage@10%				395.89
	Total of A(4)				4354.81
	Total of (A(1)+A(2)+A(3)+A(4))				45853.73
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				458.54
	Total of A				**46312.26**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	806.00	2015.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	4	663.00	2652.00
	Total of B(1)				**5840.00**
	B(2) For Insulation works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B(2)				**1469.00**
	For Cladding works				

1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B (3)				**1469.00**
	Total of B				**8778.00**
	Total A+B				**55090.26**
	Add 12% GST (MF= 0.1405)				**7740.18**
	TOTAL				**62830.45**
	C Overhead and Profits @ 15% of (A+B)				**9424.57**
	Total				**72255.01**
	Rate for 1 meter				7225.50
	TOTAL				**7225.50**
	OR SAY Rs.				**7226.00**

16.3.6 Chilled water piping of nominal size - 150mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3006	A(1) Basic Price M.S. Pipe - 150 mm dia.	per meter	10	1815.80	18158.00
	add for wastage@5%				907.90
	Total of (Al)				**19065.90**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				2859.89
	Total of (Al+A2)				**21925.79**
4022	**A(3) Basic Price of Insulation - 50 mm**	per meter	10	260.85	2608.47
	add for wastage@10%				260.85
	Total A(3)				**2869.32**
3023	A(4) Pipe aluminium Cladding	per sq meter	9.426	360.00	3393.36
	add for wastage@10%				339.34
	Total of A(4)				**3732.70**
	Total of (A(1)+A(2)+A(3)+A(4))				**28527.80**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				285.28
	Total of A				**28813.08**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	1	806.00	806.00
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	3.5	663.00	2320.50
	Total of B(1)				**5105.50**
	B(2) For Insulation works				

1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B(2)				**1469.00**
	For Cladding works				
1004	Fitter	per day	1	806.00	806.00
1007	Helper	per day	1	663.00	663.00
	Total of B (3)				1469.00
	Total of B				8043.50
	Total A+B				**36856.58**
	Add 12% GST (MF= 0.1405)				**5178.35**
	TOTAL				**42034.93**
	C Overhead and Profits @ 15% of (A+B)				**6305.24**
	Total				**48340.17**
	Rate for 1 meter				4834.02
	TOTAL				**4834.02**
	OR SAY Rs.				**4834.00**

16.3.7 Chilled water piping of nominal size - 125mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3007	A(1) Basic Price M.S. Pipe - 125 mm dia.	per meter	10	1526.00	15260.00
	add for wastage@5%				763.00
	Total of (Al)				**16023.00**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				2403.45
	Total of (Al+A2)				**18426.45**
4023	A(3) Basic Price of Insulation - 50 mm	per meter	10	229.58	2295.76
	add for wastage@10%				229.58
	Total A(3)				**2525.34**
3023	A(4) Pipe aluminium Cladding	per sq meter	7.0695	360.00	2545.02
	add for wastage@10%				254.50
	Total of A(4)				2799.52
	Total of (A(1)+A(2)+A(3)+A(4))				23751.31
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				237.51
	Total of A				**23988.82**
	B(Labour)				
	B(1) For Piping work				

1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	0.75	806.00	604.50
1006	Painter	per day	0.5	734.00	367.00
1007	Helper	per day	3.25	663.00	2154.75
	Total of B(1)				**4738.25**
	B(2) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(2)				**1101.75**
	For Cladding works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B (3)				1101.75
	Total of B				**6941.75**
	Total A+B				**30930.57**
	Add 12% GST (MF= 0.1405)				**4345.75**
	TOTAL				**35276.32**
	C Overhead and Profits @ 15% of (A+B)				**5291.45**
	Total				**40567.77**
	Rate for 1 meter				4056.78
	TOTAL				**4056.78**
	OR SAY Rs.				**4057.00**

16.3.8 Chilled water piping of nominal size - 100mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3008	A(1) Basic Price M.S. Pipe - 100 mm dia.	per meter	10	1237.60	12376.00
	add for wastage@5%				618.80
	Total of (AI)				**12994.80**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1949.22
	Total of (AI+A2)				**14944.02**
4024	A(3) Basic Price of Insulation - 50 mm	per meter	10	202.12	2021.19
	add for wastage@10%				202.12
	Total A (3)				**2223.31**
3023	A(4) Pipe aluminium Cladding	per sq meter	6.284	360.00	2262.24
	add for wastage@10%				226.22
	Total of A(4)				**2488.46**

	Total of (A(1)+A(2)+A(3)+A(4))				19655.79
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				196.56
	Total of A				**19852.35**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	0.75	806.00	604.50
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	3	663.00	1989.00
	Total of B(1)				**4389.00**
	B(2) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(2)				1101.75
	For Cladding works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B (3)				1101.75
	Total of B				**6592.50**
	Total A+B				**26444.85**
	Add 12% GST (MF= 0.1405)				**3715.50**
	TOTAL				**30160.35**
	C Overhead and Profits @ 15% of (A+B)				**4524.05**
	Total				**34684.40**
	Rate for 1 meter				3468.44
	TOTAL				**3468.44**
	OR SAY Rs.				**3468.00**

16.3.9 Chilled water piping of nominal size - 80mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3009	A(1) Basic Price M.S. Pipe - 80 mm dia.	per meter	10	848.40	8484.00
	add for wastage@5%				424.20
	Total of (Al)				**8908.20**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1336.23
	Total of (Al+A2)				**10244.43**

4025	A(3) Basic Price of Insulation - 50 mm	per meter	10	167.03	1670.34
	add for wastage@10%				167.03
	Total A (3)				**1837.37**
3023	A(4) Pipe aluminium Cladding	per sq meter	5.6556	360.00	2036.02
	add for wastage@10%				203.60
	Total of A(4)				**2239.62**
	Total of (A(1)+A(2)+A(3)+A(4))				14321.42
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				143.21
	Total of A				**14464.63**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	0.5	806.00	403.00
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2.75	663.00	1823.25
	Total of B(1)				**4021.75**
	B(2) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(2)				**1101.75**
	For Cladding works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B (3)				1101.75
	Total of B				**6225.25**
	Total A+B				**20689.88**
	Add 12% GST (MF= 0.1405)				**2906.93**
	TOTAL				**23596.81**
	C Overhead and Profits @ 15% of (A+B)				**3539.52**
	Total				**27136.34**
	Rate for 1 meter				2713.63
	TOTAL				2713.63
	OR SAY Rs.				**2714.00**

16.3.10 Chilled water piping of nominal size - 65mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3010	A(1) Basic Price M.S. Pipe - 65 mm dia.	per meter	10	679.00	6790.00
	add for wastage@5%				339.50
	Total of (Al)				**7129.50**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers ,vibration-isolators and fittings such as bends, tees etc. @ 15%				1069.43
	Total of (Al+A2)				**8198.93**
4026	A(3) Basic Price of Insulation - 50 mm	per meter	10	152.54	1525.42
	add for wastage@10%				152.54
					1677.97
3023	A(4) Pipe aluminium Cladding	per sq meter	5.1843	360.00	1866.35
	add for wastage@10%				186.63
	Total of A(4)				**2052.98**
	Total of (A(1)+A(2)+A(3)+A(4))				**11929.87**
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				119.30]
	Total of A				**12049.17**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	806.00	1612.00
1087	Welder	per day	0.5	806.00	403.00
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	2.75	663.00	1823.25
	Total of B(1)				**4021.75**
	B(2) For Insulation works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B(2)				**734.50**
	For Cladding works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B (3)				734.50
	Total of B				**5490.75**
	Total A+B				**17539.92**
	Add 12% GST (MF= 0.1405)				**2464.36**
	TOTAL				**20004.28**
	C Overhead and Profits @ 15% of (A+B)				**3000.64**
	Total				**23004.92**
	Rate for 1 meter				2300.49
	TOTAL				2300.49
	OR SAY Rs.				**2300.00**

16.3.11 Chilled water piping of nominal size - 50mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3011	A(1) Basic Price M.S. Pipe - 50 mm dia.	per meter	10	531.30	5313.00
	add for wastage@5%				265.65
	Total of (Al)				**5578.65**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				836.80
	Total of (Al+A2)				**6415.45**
4027	**A(3) Basic Price of Insulation - 50 mm**	per meter	10	134.24	1342.37
	add for wastage@10%				**134.24**
	Total A(3)				**1476.61**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	4.713	360.00	**1696.68**
	add for wastage@10%				169.67
	Total of A(4)				1866.35
	Total of (A(1)+A(2)+A(3)+A(4))				9758.41
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				97.58
					9855.99
	Total of A				
	B(Labour)				
	B(1) For Piping work				**1209.00**
1004	Fitter	per day	1.5	806.00	403.00
1087	Welder	per day	0.5	806.00	183.50
1006	Painter	per day	0.25	734.00	1491.75
1007	Helper	per day	2.25	663.00	3287.25
	Total of B(1)				
	B(2) For Insulation works				**403.00**
1004	Fitter	per day	0.5	806.00	331.50
1007	Helper	per day	0.5	663.00	734.50
	Total of B(2)				
	For Cladding works				**403.00**
1004	Fitter	per day	0.5	806.00	331.50
1007	Helper	per day	0.5	663.00	734.50
	Total of B (3)				**4756.25**
	Total of B				**14612.24**
	Total A+B				**2053.02**
	Add 12% GST (MF= 0.1405)				**16665.26**
	TOTAL				

	C Overhead and Profits @ 15% of (A+B)	2499.79
	Total	19165.05
	Rate for 1 meter	1916.50
	TOTAL	1916.50
	OR SAY Rs.	1917.00

16.3.12 Chilled water piping of nominal size - 40mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3012	A(1) Basic Price M.S. Pipe - 40 mm dia.	10	376.60	376.60	3766.00
	add for wastage@5%				188.30
	Total of (Al)				**3954.30**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				593.15
	Total of (Al+A2)				**4547.45**
4028	**A(3) Basic Price of Insulation - 50 mm**	10	119.75	119.75	1197.46
	add for wastage@10%				119.75
	Total A(3)				**1317.20**
3023	**A(4) Pipe aluminium Cladding**	4.3988	360.00	360.00	**1583.57**
	add for wastage@10%				158.36
	Total of A(4)				1741.92
	Total of (A(1)+A(2)+A(3)+A(4))				7606.57
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				76.07
	Total of A				**7682.64**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	1.5	806.00	806.00	1209.00
1087	Welder	0.5	806.00	806.00	403.00
1006	Painter	0.25	734.00	734.00	183.50
1007	Helper	2.25	663.00	663.00	1491.75
	Total of B(1)				**3287.25**
	B(2) For Insulation works				
1004	Fitter	0.5	806.00	806.00	403.00
1007	Helper	0.5	663.00	663.00	331.50
	Total of B(2)				**734.50**
	For Cladding works				

1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B (3)				**734.50**
	Total of B				**4756.25**
	Total A+B				**12438.89**
	Add 12% GST (MF= 0.1405)				**1747.66**
	TOTAL				**14186.55**
	C Overhead and Profits @ 15% of (A+B)				**2127.98**
	Total				**16314.54**
	Rate for 1 meter				1631.45
	TOTAL				**1631.45**
	OR SAY Rs.				**1631.00**

16.3.13 Chilled water piping of nominal size - 32mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3013	A(1) Basic Price M.S. Pipe - 32 mm dia.	per meter	10	326.20	3262.00
	add for wastage@5%				163.10
	Total of (Al)				**3425.10**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				513.77
	Total of (Al+A2)				**3938.87**
4029	**A(3) Basic Price of Insulation - 50 mm**	per meter	10	112.12	1121.19
	add for wastage@10%				112.12
	Total A (3)				**1233.31**
3023	**A(4) Pipe aluminium Cladding**	per sq meter	4.14744	360.00	1493.08
	add for wastage@10%				149.31
	Total of A(4)				**1642.39**
	Total of (A(1)+A(2)+A(3)+A(4))				6814.56
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				68.15
	Total of A				**6882.70**
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.25	806.00	1007.50
1087	Welder	per day	0.25	806.00	201.50
1006	Painter	per day	0.25	734.00	183.50
1007	**Helper**	per day	1.75	663.00	**1160.25**
	Total of B(1)				2552.75
	B(2) For Insulation works				

1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B(2)				**734.50**
	For Cladding works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B (3)				734.50
	Total of B				**4021.75**
	Total A+B				**10904.45**
	Add 12% GST (MF= 0.1405)				**1532.08**
	TOTAL				**12436.53**
	C Overhead and Profits @ 15% of (A+B)				**1865.48**
	Total				**14302.01**
	Rate for 1 meter				1430.20
	TOTAL				**1430.20**
	OR SAY Rs.				**1430.00**

16.3.14 Chilled water piping of nominal size - 25mm dia. (50mm thick expanded polysterene)

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3014	A(1) Basic Price M.S. Pipe - 25 mm dia.	per meter	10	255.50	2555.00
	add for wastage@5%				127.75
	Total of (Al)				**2682.75**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				402.41
	Total of (Al+A2)				**3085.16**
4030	**A(3) Basic Price of Insulation - 50 mm**	per meter	10	102.97	1029.66
	add for wastage@10%				102.97
	Total of A(3)				**1132.63**
3023	A(4) Pipe aluminium Cladding	per sq meter	3.9275	360.00	1413.90
	add for wastage@10%				141.39
	Total of A(4)				**1555.29**
	Total of (A(1)+A(2)+A(3)+A(4))				5773.08
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				57.73
	Total of A				**5830.81**
	B(Labour)				
	B(1) For Piping work				

1004	Fitter	per day	1.25	806.00	1007.50
1087	Welder	per day	0.25	806.00	201.50
1006	Painter	per day	0.25	734.00	183.50
1007	Helper	per day	1.75	663.00	1160.25
	Total of B(1)				**2552.75**
	B(2) For Insulation works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B(2)				**734.50**
	For Cladding works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B (3)				**734.50**
	Total of B				**4021.75**
	Total A+B				**9852.56**
	Add 12% GST (MF= 0.1405)				**1384.28**
	TOTAL				**11236.85**
	C Overhead and Profits @ 15% of (A+B)				**1685.53**
	Total				**12922.37**
	Rate for 1 meter				1292.24
	TOTAL				**1292.24**
	OR SAY Rs.				**1292.00**

16.4 Supplying, laying/ fixing, testing and commissioning of following thickness resin bonded fiber glass pipe section insulation having density 80 kg/cum or mineral wool (non combustible) having density of 144 Kg/ cu m duly covered with a layer of 120 gm/sqm polythene sheet (vapour barrier) on existing pipe and finally applying 0.63mm aluminium sheet cladding complete with type3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date) at joints etc. as per specifications and as required.

16.4.1 insulation of thickness 75mm on existing pipe

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
4031	A(1) Basic Price of Insulation 75 mm	per sqmeter	10	1366.02	13660.17
	add for wastage@10%				1366.02
	Total of A1				**15026.19**
3023	A(2) Pipe aluminium Cladding	per sq meter	10	360.00	3600.00
	add for wastage@10%				360.00
	Total of A(2)				**3960.00**
	Total of (A(1)+A(2))				**18986.19**
	Add for cartage etc. @ 1%of (A(1)+A(2))				189.86
	Total of A				**19176.05**

	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(1)				1836.25
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (2)				**1836.25**
	Total of B				**3672.50**
	Total A+B				**22848.55**
	Add 12% GST (MF= 0.1405)				**3210.22**
	TOTAL				**26058.77**
	C Overhead and Profits @ 15% of (A+B)				**3908.82**
	Total				**29967.58**
	Rate for 1 sqmeter				2996.76
	TOTAL				**2996.76**
	OR SAY Rs.				**2997.00**

16.4.2 insulation of thickness 65 mm on existing pipe

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3201	A(1) Basic Price of Insulatio -65 mm	per sqmeter	10	990.76	9907.63
	add for wastage@10%				990.76
	Total of A1				**10898.39**
3023	A(2) Pipe aluminium Cladding	per sq meter	10	360.00	3600.00
	add for wastage@10%				360.00
	Total of A(2)				**3960.00**
	Total of (A(1)+A(2))				**14858.39**
	Add for cartage etc. @ 1%of (A(1)+A(2))				148.58
	Total of A				**15006.97**
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(1)				**1836.25**
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	368.00	460.00
	Total of B (2)				**1467.50**
	Total of B				**3303.75**

	Total A+B	**18310.72**
	Add 12% GST (MF= 0.1405)	**2572.66**
	TOTAL	**20883.38**
	C Overhead and Profits @ 15% of (A+B)	**3132.51**
	Total	**24015.89**
	Rate for 1 sqmeter	2401.59
	TOTAL	**2401.59**
	OR SAY Rs.	**2402.00**

16.4.3 insulation of thickness 50mm on existing pipe

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
4032	A(1) Basic Price of Insulation - 50 mm	per sqm	10	1120.42	11204.24
	add for wastage@10%				1120.42
	Total of A(1)				**12324.66**
3023	A(2) Pipe aluminium Cladding	per sqm	10	360.00	3600.00
	add for wastage@10%				360.00
	Total of A(2)				**3960.00**
	Total of (A(1)+A(2))				**16284.66**
	Add for cartage etc. @ 1%of (A(1)+A(2))				162.85
	Total of A				**16447.51**
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(1)				**1836.25**
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (2)				1836.25
	Total of B				**3672.50**
	Total A+B				**20120.01**
	Add 12% GST (MF= 0.1405)				**2826.86**
	TOTAL				**22946.87**
	C Overhead and Profits @ 15% of (A+B)				**3442.03**
	Total				**26388.90**
	Rate for 1 sqmeter				2638.89
	TOTAL				**2638.89**
	OR SAY Rs.				**2639.00**

16.4.4 insulation of thickness 40mm on existing pipe

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
4033	A(1) Basic Price of Insulation - 40 mm	per sqmeter	10	971.69	9716.95
	Add wastage @ 10%				971.69
	Total of A(1)				**10688.64**
3023	A(2) Pipe aluminium Cladding	per sq meter	10	360.00	3600.00
	Add wastage @ 10%				360.00
	Total of A(2)				3960.00
	Total of (A(1)+A(2))				14648.64
	Add for cartage etc. @ 1%of (A(1)+A(2))				**146.49**
	Total of A				**14795.13**
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(1)				**1836.25**
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (2)				**1836.25**
	Total of B				**3672.50**
	Total A+B				**18467.63**
	Add 12% GST (MF= 0.1405)				**2594.70**
	TOTAL				**21062.33**
	C Overhead and Profits @ 15% of (A+B)				**3159.35**
	Total				**24221.68**
	Rate for 1 sqmeter				2422.17
	TOTAL				**2422.17**
	OR SAY Rs.				**2422.00**

16.4.5 insulation of thickness 25mm on existing pipe

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

4034	A(1) Basic Price of Insulation - 25 mm	per sqmeter	10	641.44	6414.41
	Add wastage @ 10%				641.44
	Total of A(1)				**7055.85**
3023	A(2) Pipe aluminium Cladding	per sq meter	10	360.00	3600.00
	Add wastage @ 10%				360.00
	Total of A(2)				3960.00
	Total of (A(1)+A(2))				11015.85
	Add for cartage etc. @ 1%of (A(1)+A(2))				110.16
	Total of A				**11126.01**
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(1)				**1836.25**
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (2)				**1836.25**
	Total of B				**3672.50**
	Total A+B				**14798.51**
	Add 12% GST (MF= 0.1405)				**2079.19**
	TOTAL				**16877.70**
	C Overhead and Profits @ 15% of (A+B)				**2531.65**
	Total				**19409.35**
	Rate for 1 sqmeter				1940.94
	TOTAL				**1940.94**
	OR SAY Rs.				**1941.00**

16.5 Supplying, laying,fixing, testing and commissioning of following thickness closed cell elastrometric nitrile rubber of class 'O' applied by adhesive confirming to standard specifications, as per specifications and as required complete in all respect.

16.5.1 Insulation with nitrile rubber of thickness 32mm on existing pipe

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
4015	A(1) Basic Price of Insulation - 32 mm thick nitrile rubber	per sq meter	10	669.66	6696.61
	Add wastagee @ 10%				669.66
	Total of A(1)				7366.27

3023	A(4) Pipe aluminium Cladding	per sq meter	0	360.00	0.00
	Add wastagee @ 10%				0.00
	Total of A(2)				**0.00**
	Total of (A(1)+A(2)+A(3)+A(4))				7366.27
	Add for cartage etc. @ 1%of (A(1)+A(2))				73.66
	Total of A				**7439.93**
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	0.75	806.00	604.50
1007	Helper	per day	0.75	663.00	497.25
	Total of B(1)				**1101.75**
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (2)				0.00
	Total of B				**1101.75**
	Total A+B				**8541.68**
	Add 12% GST (MF= 0.1405)				**1200.11**
	TOTAL				**9741.79**
	C Overhead and Profits @ 15% of (A+B)				**1461.27**
	Total				**11203.06**
	Rate for 1 sq meter				1120.31
	TOTAL				**1120.31**
	OR SAY Rs.				**1120.00**

16.5.2 Insulation with nitrile rubber of thickness 19mm on existing pipe

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
4016	**A(3) Basic Price of Insulation - 19 mm thick nitrile rubber**	per sq meter	10	370.68	3706.78
	Add wastagee @ 10%				370.68
	Total of A(1)				**4077.46**
3023	**A(2) Pipe aluminium Cladding**	per sq meter	0	360.00	0.00
	Add wastagee @ 10%				0.00
	Total of A(2)				**0.00**
	Total of (A(1)+A(2))				**4077.46**
	Add for cartage etc. @ 1%of (A(1)+A(2))				40.77
	Total of A				4118.23
	B(Labour)				
	B(1) For Insulation works				

1004	Fitter	per day	0.65	806.00	523.90
1007	Helper	per day	0.65	663.00	430.95
	Total of B(1)				**954.85**
	For Cladding works				
1004	Fitter	per day	0	806.00	0.00
1007	Helper	per day	0	663.00	0.00
	Total of B (2)				0.00
	Total of B				954.85
	Total A+B				**5073.08**
	Add 12% GST (MF= 0.1405)				**712.77**
	TOTAL				**5785.85**
	C Overhead and Profits @ 15% of (A+B)				**867.88**
	Total				**6653.73**
	Rate for 1 meter				665.37
	TOTAL				**665.37**
	OR SAY Rs.				**665.00**

16.6 Supplying, laying/ fixing, testing and commissioning of following thickness insulation with fire retardant quality expanded polystrene moulded pipe section of density 20 kg/cu.m after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500g polythene faced hessain and finally applying 0.63mm aluminium sheet cladding complete with type3 , grade 1 roofing feltstrip(as per IS:1322 as amended up to date) at joints repairing etc. as per specifications and as required complete in all respect.

16.6.1 Insulation with Expanded polystrene of thickness 75mm on existing pipe

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
4037	**A(1) Basic Price of Insulation - 75 mm**	per sq meter	10	224.24	2242.37
	Add wastagee @ 10%				224.24
	Total of A(1)				**2466.61**
3023	**A(2) Pipe aluminium Cladding**	per sq meter	10	360.00	3600.00
	Add wastagee @ 10%				360.00
	Total of A(2)				**3960.00**
	Total of (A(1)+A(2))				**6426.61**
	Add for cartage etc. @ 1%of (A(1)+A(2))				64.27
	Total of A				**6490.88**
	B(Labour)				
	B(1) For Insulation works				

1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(1)				**1836.25**
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (2)				1836.25
	Total of B				**3672.50**
	Total A+B				**10163.38**
	Add 12% GST (MF= 0.1405)				**1427.95**
	TOTAL				**11591.33**
	C Overhead and Profits @ 15% of (A+B)				**1738.70**
	Total				**13330.03**
	Rate for 1 sq meter				1333.00
	TOTAL				**1333.00**
	OR SAY Rs.				**1333.00**

16.6.2 Insulation with Expanded polystrene of thickness 50mm on existing pipe

COST FOR 10 METRES

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
4038	**A(1) Basic Price of Insulation - 50 mm**	per meter	10	149.49	1494.92
	Add wastagee @ 10%				149.49
	Total of A(2)				**1494.92**
3023	A(2) Pipe aluminium Cladding	per sq meter	10	360.00	3600.00
	Add wastagee @ 10%				360.00
	Total of A(2)				**3960.00**
	Total of (A(1)+A(2))				**5454.92**
	Add for cartage etc. @ 1%of (A(1)+A(2))				54.55
	Total of A				**5509.46**
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B(1)				**1836.25**
	For Cladding works				
1004	Fitter	per day	1.25	806.00	1007.50
1007	Helper	per day	1.25	663.00	828.75
	Total of B (2)				1836.25
	Total of B				**3672.50**
	Total A+B				**9181.96**
	Add 12% GST (MF= 0.1405)				**1290.07**
	TOTAL				**10472.03**

	C Overhead and Profits @ 15% of (A+B)	**1570.80**
	Total	**12042.83**
	Rate for 1 meter	1204.28
	TOTAL	**1204.28**
	OR SAY Rs.	**1204.00**

16.7 Supplying, fixing, testing and commissioning of following valves, strainers, gauges in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications.

16.7.1 BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O-Ring PN 16 pressure rating for chilled water/hot eater circulation as specified

16.7.1.1 BUTTERFLY VALVE (MANUAL) 200 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3024	Basic Price (Valve) - 200 mm dia.	Each	1	9777.00	9777.00
	Total (A)				**9777.00**
	B Insulation				
4021	Basic Price of Insulation	m	0.3	549.15	164.75
	Add wastage @ 10%				16.47
	Add Valve Cladding	sqm	0.3	360	108.0
3023	Add wastage @ 10%				10.80
	Total (B)				**300.02**
	Total (A+B)				**10077.02**
	Add for Cartage etc. @ 1% on A+B				100.77
	TOTAL				10177.79
	'C' Labour				
	For fixing				
1004	**Fitter**	per day	0.5	**806.00**	**403.00**
1087	**Welder**	per day	0.2	**806.00**	**161.20**
1007	**Helper**	per day	0.7	**663.00**	**464.10**
	For Insulation				
1004	**Fitter**	per day	0.25	**806.00**	**201.50**
1007	**Helper**	per day	0.25	**663.00**	**165.75**
	For Cladding				
1004	**Fitter**	per day	0.25	**806.00**	**201.50**
1007	**Helper**	per day	0.25	**663.00**	**165.75**
	Total of C				1762.80
	Total of A+B+C				**11940.59**
	Add 12% GST (MF= 0.1405)				**1677.65**
	TOTAL				**13618.24**

	Overhead and Profits @ 15%	**2042.74**
	Grand Total	**15660.98**
	Say Rs.	**15661.00**

16.7.1.2 BUTTERFLY VALVE (MANUAL)

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3025	Basic Price (Valve) - 150 mm dia.	Each	1	4306.80	4306.80
	Total (A)				4306.80
	B Insulation				
4022	Basic Price of Insulation	m	0.3	260.85	78.25
	Add wastage @ 10%				7.83
	Add Valve Cladding	sqm	0.24	300	72.00
3023	Add wastage @ 10%				7.20
	Total (B)				165.28
	Total (A+B)				4472.08
	Add for Cartage etc. @ 1% on A+B				44.72
	Total				**4516.80**
	'C' Labour				
	For fixing				
1004	**Fitter**	per day	0.5	**806.00**	**403.00**
1087	**Welder**	per day	0.25	**806.00**	**201.50**
1007	**Helper**	per day	0.75	**663.00**	**497.25**
	For Insulation				
1004	**Fitter**	per day	0.25	**806.00**	**201.50**
1007	**Helper**	per day	0.25	**663.00**	**165.75**
	For Cladding				
1004	**Fitter**	per day	0.25	**806.00**	**201.50**
1007	**Helper**	per day	0.25	**663.00**	**165.75**
	Total of C				1836.25
	Total of A+B+C				**6353.05**
	Add 12% GST (MF= 0.1405)				**892.60**
	TOTAL				**7245.65**
	Overhead and Profits @ 15%				**1086.85**
	Grand Total				**8332.50**
	Say Rs.				**8333.00**

16.7.1.3 BUTTERFLY VALVE (MANUAL) 125 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3026	Basic Price (Valve) - 125 mm dia.	Each	1	3814.20	3814.20
	Add for Cartage etc. @ 1%				39.07
	Total (A)				3853.27
	B Insulation				
4027	Basic Price of Insulation	m	0.3	134.24	40.27
3023	Add Valve Cladding	sqm	0.19	360.00	68.40
	Total				108.67
	Add wastage @ 10%				10.87
	Total				119.54
	Add for Cartage etc. @ 1%				1.20
	Total (B)				119.54
	Total (A+B)				**3972.81**
	'C' Labour				
	For fixing				
1004	**Fitter**	per day	0.5	806.00	**403.00**
1087	**Welder**	per day	0.25	806.00	**201.50**
1007	**Helper**	per day	0.75	663.00	**497.25**
	For Insulation				
1004	**Fitter**	per day	0.25	806.00	**201.50**
1007	**Helper**	per day	0.25	663.00	**165.75**
	For Cladding				
1004	**Fitter**	per day	0.25	806.00	**201.50**
1007	**Helper**	per day	0.25	663.00	**165.75**
	Total of C				1836.25
	Total of A+B+C				**5809.06**
	Add 12% GST (MF= 0.1405)				**816.17**
	TOTAL				**6625.23**
	Overhead and Profits @ 15%				**993.78**
	Grand Total				**7619.02**
	Say Rs.				**7619.00**

16.7.1.4 BUTTERFLY VALVE (MANUAL) 100 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3027	Basic Price (Valve) - 100 mm dia.	Each	1	3060.60	3060.60
	Add for Cartage etc. @ 1%				30.61
	Total (A)				3091.21
	B Insulation				
4024	Basic Price of Insulation	m	0.3	202.12	60.64
3023	Add Valve Cladding	sqm	0.17	360.00	61.20
	Total				121.84
	Add wastage @ 10%				12.18
	Total				134.02
	Add for Cartage etc. @ 1%				1.34
	Total (B)				135.36
	Total (A+B)				**3226.57**
	'C' Labour				
	For fixing				
1004	**Fitter**	per day	0.5	**806.00**	**403.00**
1087	**Welder**	per day	0.25	**806.00**	**201.50**
1007	**Helper**	per day	0.75	**663.00**	**497.25**
	For Insulation				
1004	**Fitter**	per day	0.25	**806.00**	**201.50**
1007	**Helper**	per day	0.25	**663.00**	**165.75**
	For Cladding				
1004	**Fitter**	per day	0.25	**806.00**	**201.50**
1007	**Helper**	per day	0.25	**663.00**	**165.75**
	Total of C				1836.25
	Total of A+B+C				**5062.82**
	Add 12% GST (MF= 0.1405)				**711.33**
	TOTAL				**5774.14**
	Overhead and Profits @ 15%				**866.12**
	Grand Total				**6640.26**
	Say Rs.				**6640.00**

16.7.1.5 BUTTERFLY VALVE (MANUAL) 80 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3028	Basic Price (Valve) - 80 mm dia.	Each	1	2387.40	2387.40
	Add for Cartage etc. @ 1%				23.87
	Total (A)				2411.27
	B Insulation				
4025	Basic Price of Insulation	m	0.2	167.03	33.41
	Add Valve Cladding	sqm	0.12	360.00	43.20
	Total				76.61
	Add wastage @ 10%				7.66
	Total				84.27

	Add for Cartage etc. @ 1%				0.84
	Total (B)				**85.11**
	Total (A+B)				**2496.38**
	'C' Labour				
	For fixing				
1004	**Fitter**	per day	0.25	**806.00**	**203.11**
1087	**Welder**	per day	0.21	**806.00**	**172.48**
1007	**Helper**	per day	0.47	**663.00**	**308.96**
	For Insulation				
1004	**Fitter**	per day	0.15	**806.00**	**120.90**
1007	**Helper**	per day	0.15	**663.00**	**99.45**
	For Cladding				
1004	**Fitter**	per day	0.2	**806.00**	**161.20**
1007	**Helper**	per day	0.2	**663.00**	**132.60**
	Total of C				1198.70
	Total of A+B+C				**3695.09**
	Add 12% GST (MF= 0.1405)				**519.16**
	TOTAL				**4214.25**
	Overhead and Profits @ 15%				**632.14**
	Grand Total				**4846.39**
	Say Rs				**4846.00**

16.7.1.6 BUTTERFLY VALVE (MANUAL) 65 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3029	Basic Price (Valve) - 65 mm dia.	Each	1	2178.60	2178.60
	Add for Cartage etc. @ 1%				21.79
	Total (A)				2200.39
	B Insulation				
4026	Basic Price of Insulation	m	0.2	152.54	30.51
3023	Add Valve Cladding	sqm	0.07	360.00	25.20
	Total				55.71
	Add wastage @ 10%				5.57
	Total				61.28
	Add for Cartage etc. @ 1%				0.61
	Total (B)				**61.89**
	Total (A+B)				**2262.28**
	'C' Labour				
	For fixing				
1004	**Fitter**	per day	0.25	**806.00**	**201.50**
1087	**Welder**	per day	0.21	**806.00**	**170.07**
1007	**Helper**	per day	0.46	**663.00**	**305.64**

	For Insulation				
1004	**Fitter**	per day	0.15	**806.00**	**120.90**
1007	**Helper**	per day	0.15	**663.00**	**99.45**
	For Cladding				
1004	**Fitter**	per day	0.2	**806.00**	**161.20**
1007	**Helper**	per day	0.2	**663.00**	**132.60**
	Total of C				1191.36
	Total of A+B+C				**3453.64**
	Add 12% GST (MF= 0.1405)				**485.24**
	TOTAL				**3938.87**
	Overhead and Profits @ 15%				**590.83**
	Grand Tota				**4529.70**
	Say Rs.				**4530.00**

16.7.1.7 BUTTERFLY VALVE (MANUAL) 50 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3030	Basic Price (Valve) - 50 mm dia.	Each	1	2019.60	2019.60
	Add for Cartage etc. @ 1%				20.20
	Total (A)				2039.80
	B Insulation				
4027	Basic Price of Insulation	m	0.2	134.24	26.85
3023	Add Valve Cladding	sqm	0.06	360.00	21.60
	Total				48.45
	Add wastage @ 10%				4.84
	Total				53.29
	Add for Cartage etc. @ 1%				0.53
	Total (B)				**53.83**
	Total (A+B)				**2093.62**
	'C' Labour				
	For fixing				
1004	**Fitter**	per day	0.20	**806.00**	**161.20**
1087	**Welder**	per day	0.17	**806.00**	**135.41**
1007	**Helper**	per day	0.37	**663.00**	**243.98**
	For Insulation				
1004	**Fitter**	per day	0.15	**806.00**	**120.90**
1007	**Helper**	per day	0.15	**663.00**	**99.45**
	For Cladding				
1004	**Fitter**	per day	0.2	**806.00**	**161.20**
1007	**Helper**	per day	0.2	**663.00**	**132.60**
	Total of C				1054.74

	Total of A+B+C	**3148.36**
	Add 12% GST (MF= 0.1405)	**442.35**
	TOTAL	**3590.71**
	Overhead and Profits @ 15%	**538.61**
	Grand Total	**4129.31**
	Say Rs.	**4129.00**

16.7.1.8 BUTTERFLY VALVE (MANUAL) 40 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3031	Basic Price (Valve) - 40 mm dia.	Each	1	1764.00	1764.00
	Add for Cartage etc. @ 1%				17.64
	Total (A)				1781.64
	B Insulation				
4028	Basic Price of Insulation	m	0.2	119.75	23.95
3023	Add Valve Cladding	sqm	0.06	360.00	21.60
	Total				45.55
	Add wastage @ 10%				4.55
	Total				50.10
	Add for Cartage etc. @ 1%				0.50
	Total (B)				**50.61**
	Total (A+B)				**1832.25**
	'C' Labour				
	For fixing				
1004	**Fitter**	per day	0.15	**806.00**	**120.90**
1087	**Welder**	per day	0.15	**806.00**	**120.90**
1007	**Helper**	per day	0.3	**663.00**	**198.90**
	For Insulation				
1004	**Fitter**	per day	0.12	**806.00**	**96.72**
1007	**Helper**	per day	0.12	**663.00**	**79.56**
	For Cladding				
1004	**Fitter**	per day	0.15	**806.00**	**120.90**
1007	**Helper**	per day	0.15	**663.00**	**99.45**
	Total of C				837.33
	Total of A+B+C				**2669.58**
	Add 12% GST (MF= 0.1405)				**375.08**
	TOTAL				**3044.65**
	Overhead and Profits @ 15%				**456.70**
	Grand Total				**3501.35**
	Say Rs.				**3501.00**

16.7.2 BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.

16.7.2.1 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 200 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3032	Basic Price (Valve) - 200 mm dia.	Each	1	50680.00	50680.00
	Add for Cartage etc. @ 1%				506.80
	Total (A)				51186.80
	B Insulation				
4021	Basic Price of Insulation	m	0.3	549.15	164.75
3023	Add Valve Cladding	sqm	0.28	360.00	100.80
	Total				265.55
	Add wastage @ 10%				26.55
	Total				292.10
	Add for Cartage etc. @ 1%				2.92
	Total (B)				295.02
	Total (A+B)				51481.82
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.48	806.00	386.88
1087	Welder	per day	0.20	806.00	161.20
1007	Helper	per day	0.68	663.00	450.84
	For Insulation				
1004	Fitter	per day	0.2	806.00	161.20
1007	Helper	per day	0.2	663.00	132.60
	For Cladding				
1004	Fitter	per day	0.2	806.00	161.20
1007	Helper	per day	0.2	663.00	132.60
	Total of C				1586.52
	Total of A+B+C				53068.34
	Add 12% GST (MF= 0.1405)				**7456.10**
	TOTAL				**60524.44**
	Overhead and Profits @ 15%				**9078.67**
	Grand Total				**69603.11**
	Say Rs.				**69603.00**

16.7.2.2 BALANCING VALVE WITH BUILT IN MEASURING FACILITY of 150 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3033	Basic Price (Valve) - 150 mm dia.	Each	1	24320.00	24320.00
	Add for Cartage etc. @ 1%				243.20
	Total (A)				24563.20
	B Insulation				
4022	Basic Price of Insulation	m	0.30	260.85	78.25
3023	Add Valve Cladding	sqm	0.24	360.00	86.40
	Total				164.65
	Add wastage @ 10%				16.47
	Total				181.12
	Add for Cartage etc. @ 1%				1.81
	Total (B)				182.93
	Total (A+B)				24746.13
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.48	806.00	386.88
1087	Welder	per day	0.20	806.00	157.25
1007	Helper	per day	0.68	663.00	447.59
	For Insulation				
1004	Fitter	per day	0.19	806.00	153.14
1007	Helper	per day	0.19	663.00	125.97
	For Cladding				
1004	Fitter	per day	0.18	806.00	141.13
1007	Helper	per day	0.18	663.00	116.09
	Total of C				1528.05
	Total of A+B+C				26274.18
	Add 12% GST (MF= 0.1405)				**3691.52**
	TOTAL				**29965.71**
	Overhead and Profits @ 15%				**4494.86**
	Grand Total				**34460.56**
	Say Rs.				**34461.00**

16.7.2.3 BALANCING VALVE WITH BUILT IN MEASURING FACILITY of 125 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3034	Basic Price (Valve) - 125 mm dia.	Each	1	18280.00	18280.00
	Add for Cartage etc. @ 1%				182.80
	Total (A)				18462.80
	B Insulation				
4023	Basic Price of Insulation	m	0.3	229.58	68.87
3023	Add Valve Cladding	sqm	0.19	360.00	68.40
	Total				137.27
	Add wastage @ 10%				13.73
	Total				151.00
	Add for Cartage etc. @ 1%				1.51
	Total (B)				152.51
	Total (A+B)				18615.31
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.48	806.00	390.83
1087	Welder	per day	0.20	806.00	165.22
1007	Helper	per day	0.69	663.00	457.40
	For Insulation				
1004	Fitter	per day	0.19	806.00	157.09
1007	Helper	per day	0.19	663.00	129.22
	For Cladding				
1004	Fitter	per day	0.18	806.00	149.03
1007	Helper	per day	0.18	663.00	122.59
	Total of C				1571.37
	Total of A+B+C				20186.68
	Add 12% GST (MF= 0.1405)				**2836.23**
	TOTAL				**23022.91**
	Overhead and Profits @ 15%				**3453.44**
	Grand Total				**26476.35**
	Say Rs				**26476.00**

16.7.2.4 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 100 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3035	Basic Price (Valve) - 100 mm dia.	Each	1	13320.00	13320.00
	Add for Cartage etc. @ 1%				133.20
	Total (A)				13453.20
	B Insulation				
4024	Basic Price of Insulation	m	0.3	202.12	70.54
	Add Valve Cladding	sqm	0.17	360.00	61.20
	Total				131.74

3023	Add wastage @ 10%				13.17
	Total				144.91
	Add for Cartage etc. @ 1%				1.45
	Total (B)				146.36
	Total (A+B)				13599.56
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.48	806.00	386.88
1087	Welder	per day	0.20	806.00	163.62
1007	Helper	per day	0.68	663.00	452.83
	For Insulation				
1004	Fitter	per day	0.19	806.00	157.09
1007	Helper	per day	0.19	663.00	129.22
	For Cladding				
1004	Fitter	per day	0.18	806.00	149.03
1007	Helper	per day	0.18	663.00	122.59
	Total of C				1561.25
	Total of A+B+C				15160.82
	Add 12% GST (MF= 0.1405)				**2130.09**
	TOTAL				**17290.91**
	Overhead and Profits @ 15%				**2593.64**
	Grand Total				**19884.55**
	Say Rs.				19885.00

16.7.2.5 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 80 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3036	Basic Price (Valve) - 80 mm dia.	Each	1	9200.00	9200.00
	Add for Cartage etc. @ 1%				92.00
	Total (A)				9292.00
	B Insulation				
4025	Basic Price of Insulation	m	0.2	167.03	33.41
3023	Add Valve Cladding	sqm	0.12	360.00	43.20
	Total				76.61
	Add wastage @ 10%				7.66
	Total				84.27
	Add for Cartage etc. @ 1%				0.84
	Total (B)				85.11
	Total (A+B)				**9377.11**
	'C' Labour				
	For fixing				

1004	Fitter	per day	0.26	806.00	212.78
1087	Welder	per day	0.20	806.00	161.20
1007	Helper	per day	0.46	663.00	307.63
	For Insulation				
1004	Fitter	per day	0.15	806.00	120.90
1007	Helper	per day	0.15	663.00	99.45
	For Cladding				
1004	Fitter	per day	0.15	806.00	120.90
1007	Helper	per day	0.15	663.00	99.45
	Total of C				1122.32
	Total of A+B+C				**10499.43**
	Add 12% GST (MF= 0.1405)				**1475.17**
	TOTAL				**11974.60**
	Overhead and Profits @ 15%				**1796.19**
	Grand Total				**13770.78**
	Say Rs.				**13771.00**

16.7.2.6 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 65 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3037	Basic Price (Valve) - 65 mm dia.	Each	1	8120.00	8120.00
	Add for Cartage etc. @ 1%				81.20
	Total (A)				8201.20
	B Insulation				
4026	Basic Price of Insulation	m	0.2	152.54	30.51
3023	Add Valve Cladding	sqm	0.07	360.00	25.20
	Total				55.71
	Add wastage @ 10%				5.57
	Total				61.28
	Add for Cartage etc. @ 1%				0.61
	Total (B)				61.89
	Total (A+B)				**8263.09**
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.26	806.00	213.51
1087	Welder	per day	0.20	806.00	165.15
1007	Helper	per day	0.47	663.00	311.48
	For Insulation				
1004	Fitter	per day	0.15	806.00	120.90
1007	Helper	per day	0.15	663.00	99.45
	For Cladding				

1004	Fitter	per day	0.15	806.00	122.51
1007	Helper	per day	0.15	663.00	100.78
	Total of C				1133.77
	Total of A+B+C				9396.87
	Add 12% GST (MF= 0.1405)				**1320.26**
	TOTAL				**10717.13**
	Overhead and Profits @ 15%				**1607.57**
	Grand Total				**12324.69**
	Say Rs.				**12325.00**

16.7.2.7 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 50 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3038	Basic Price (Valve) - 50 mm dia.	Each	1	7040.00	7040.00
	Add for Cartage etc. @ 1%				70.40
	Total (A)				7110.40
	B Insulation				
4027	Basic Price of Insulation	m	0.2	134.24	26.85
	Add Valve Cladding	sqm	0.07	360.00	25.20
	Total				52.05
	Add wastage @ 10%				5.20
	Total				57.25
	Add for Cartage etc. @ 1%				0.57
	Total (B)				57.82
	Total (A+B)				**7168.22**
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.20	806.00	161.20
1087	Welder	per day	0.20	806.00	161.20
1007	Helper	per day	0.40	663.00	265.20
	For Insulation				
1004	Fitter	per day	0.15	806.00	120.09
1007	Helper	per day	0.15	663.00	98.79
	For Cladding				
1004	Fitter	per day	0.15	806.00	116.95
1007	Helper	per day	0.15	663.00	96.20
	Total of C				1019.63
	Total of A+B+C				8187.86
	Add 12% GST (MF= 0.1405)				**1150.39**
	TOTAL				**9338.25**
	Overhead and Profits @ 15%				**1400.74**
	Grand Total				**10738.99**
	Say Rs.				**10739.00**

16.7.2.7 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 50 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3038	Basic Price (Valve) - 50 mm dia.	Each	1	7040.00	7040.00
	Add for Cartage etc. @ 1%				70.40
	Total (A)				7110.40
	B Insulation				
4027	Basic Price of Insulation	m	0.2	134.24	26.85
	Add Valve Cladding	sqm	0.07	360.00	25.20
	Total				52.05
	Add wastage @ 10%				5.20
	Total				57.25
	Add for Cartage etc. @ 1%				0.57
	Total (B)				57.82
	Total (A+B)				**7168.22**
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.20	806.00	161.20
1087	Welder	per day	0.20	806.00	161.20
1007	Helper	per day	0.40	663.00	265.20
	For Insulation				
1004	Fitter	per day	0.15	806.00	120.09
1007	Helper	per day	0.15	663.00	98.79
	For Cladding				
1004	Fitter	per day	0.15	806.00	116.95
1007	Helper	per day	0.15	663.00	96.20
	Total of C				1019.63
	Total of A+B+C				8187.86
	Add 12% GST (MF= 0.1405)				**1150.39**
	TOTAL				**9338.25**
	Overhead and Profits @ 15%				**1400.74**
	Grand Total				**10738.99**
	Say Rs.				**10739.00**

16.7.2.8 BALANCING VALVE WITH BUILT IN MEASURING FACILITY of 40 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3039	Basic Price (Valve) - 40 mm dia.	Each	1	4880.00	4880.00
	Add for Cartage etc. @ 1%				48.80
	Total (A)				4928.80
	B Insulation				
4028	Basic Price of Insulation	m	0.2	119.75	23.95
3023	Add Valve Cladding	sqm	0.06	360.00	21.60
	Total				45.55
	Add wastage @ 10%				4.55
	Total				50.10
	Add for Cartage etc. @ 1%				0.50
	Total (B)				50.61
	Total (A+B)				**4979.41**
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.14	806.00	114.45
1087	Welder	per day	0.14	806.00	112.84
1007	Helper	per day	0.28	663.00	186.97
	For Insulation				
1004	Fitter	per day	0.14	806.00	112.84
1007	Helper	per day	0.14	663.00	92.82
	For Cladding				
1004	Fitter	per day	0.14	806.00	112.84
1007	Helper	per day	0.14	663.00	92.82
	Total of C				825.58
	Total of A+B+C				5804.98
	Add 12% GST (MF= 0.1405)				**815.60**
	TOTAL				**6620.58**
	Overhead and Profits @ 15%				**993.09**
	Grand Total				**7613.67**
	Say Rs.				**7614.00**

16.7.3 NON - RETURN VALVE with duel plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as specified.

16.7.3.1 NON - RETURN VALVE of 200 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3040	Basic Price (Valve) - 200 mm dia.	Each	1	8834.40	8834.40
	Add for Cartage etc. @ 1%				88.34
	Total (A)				8922.74
	B Insulation				
4021	Basic Price of Insulation	m	0.3	549.15	164.75
3023	Add Valve Cladding	sqm	0.28	360.00	100.80
	Total				265.55
	Add wastage @ 10%				26.55
	Total				292.10
	Add for Cartage etc. @ 1%				2.92
	Total (B)				295.02
	Total (A+B)				9217.77
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.50	806.00	403.00
1087	Welder	per day	0.25	806.00	199.08
1007	Helper	per day	0.75	663.00	495.26
	For Insulation				
1004	Fitter	per day	0.25	806.00	201.50
1007	Helper	per day	0.25	663.00	165.75
	For Cladding				
1004	Fitter	per day	0.25	806.00	201.50
1007	Helper	per day	0.25	663.00	165.75
	Total of C				1831.84
	Total of A+B+C				11049.61
	Add 12% GST (MF= 0.1405)				**1552.47**
	TOTAL				**12602.08**
	Overhead and Profits @ 15%				**1890.31**
	Grand Total				**14492.39**
	Say Rs.				14492.00

16.7.3.2 NON - RETURN VALVE of 150 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3041	**Basic Price (Valve) - 150 mm dia.**	Each	1	4988.80	**4988.80**
	Add for Cartage etc. @ 1%				**49.89**
	Total (A)				**5038.69**
	B Insulation				
4022	**Basic Price of Insulation**	m	0.3	260.85	**78.25**
3023	**Add Valve Cladding**	sqm	0.24	360.00	**86.40**
	Total				**164.65**
	Add wastage @ 10%				**16.47**
	Total				**181.12**

	Add for Cartage etc. @ 1%				1.81
	Total (B)				182.93
	Total (A+B)				5221.62
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	806.00	403.00
1087	Welder	per day	0.23	806.00	185.38
1007	Helper	per day	0.73	663.00	483.99
	For Insulation				
1004	Fitter	per day	0.25	806.00	201.50
1007	Helper	per day	0.25	663.00	165.75
	For Cladding				
1004	Fitter	per day	0.24	806.00	197.39
1007	Helper	per day	0.24	663.00	162.37
	Total of C				1799.38
	Total of A+B+C				7021.00
	Add 12% GST (MF= 0.1405)				**986.45**
	TOTAL				**8007.45**
	Overhead and Profits @ 15%				**1201.12**
	Grand Total				**9208.56**
	Say Rs.				9209.00

16.7.3.3 NON - RETURN VALVE of 125 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3042	Basic Price (Valve) - 125 mm dia.	Each	1	4074.40	4074.40
	Add for Cartage etc. @ 1%				40.74
	Total (A)				4115.14
	B Insulation				
4023	Basic Price of Insulation	m	0.3	229.58	68.87
3023	Add Valve Cladding	sqm	0.19	360.00	69.52
	Total				138.39
	Add wastage @ 10%				13.84
	Total				152.23
	Add for Cartage etc. @ 1%				1.52
	Total (B)				153.75
	Total (A+B)				4268.90
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	806.00	403.00
1087	Welder	per day	0.23	806.00	185.38
1007	Helper	per day	0.73	663.00	483.99
	For Insulation				

1004	Fitter	per day	0.23	806.00	185.38
1007	Helper	per day	0.23	663.00	152.49
	For Cladding				
1004	Fitter	per day	0.22	806.00	174.90
1007	Helper	per day	0.22	663.00	143.87
	Total of C				1729.01
	Total of A+B+C				5997.91
	Add 12% GST (MF= 0.1405)				**842.71**
	TOTAL				**6840.62**
	Overhead and Profits @ 15%				**1026.09**
	Grand Total				**7866.71**
	Say Rs.				7867.00

16.7.3.4 NON - RETURN VALVE 100 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3043	Basic Price (Valve) - 100 mm dia.	Each	1	2817.60	2817.60
	Add for Cartage etc. @ 1%				28.18
	Total (A)				2845.78
	B Insulation				
4024	Basic Price of Insulation	m	0.3	202.12	60.64
3023	Add Valve Cladding	sqm	0.17	360.00	61.04
	Total				121.68
	Add wastage @ 10%				12.17
	Total				133.84
	Add for Cartage etc. @ 1%				1.34
	Total (B)				135.18
	Total (A+B)				2980.96
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	806.00	403.00
1087	Welder	per day	0.23	806.00	185.38
1007	Helper	per day	0.73	663.00	483.99
	For Insulation				
1004	Fitter	per day	0.22	806.00	177.32
1007	Helper	per day	0.22	663.00	145.86
	For Cladding				
1004	Fitter	per day	0.22	806.00	175.71
1007	Helper	per day	0.22	663.00	144.53
	Total of C				1715.79
	Total of A+B+C				4696.75
	Add 12% GST (MF= 0.1405)				**659.89**
	TOTAL				**5356.64**

	Overhead and Profits @ 15%	803.50
	Grand Total	6160.14
	Say Rs.	6160.00

16.7.3.5 NON - RETURN VALVE of 80 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3044	Basic Price (Valve) - 80 mm dia.	Each	1	1942.40	1942.40
	Add for Cartage etc. @ 1%				19.42
	Total (A)				1961.82
	B Insulation				
4025	Basic Price of Insulation	m	0.2	167.03	33.41
3023	Add Valve Cladding	sqm	0.12	360.00	44.09
	Total				77.49
	Add wastage @ 10%				7.75
	Total				85.24
	Add for Cartage etc. @ 1%				0.85
	Total (B)				86.09
	Total (A+B)				2047.92
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.25	806.00	201.50
1087	Welder	per day	0.20	806.00	161.20
1007	Helper	per day	0.45	663.00	298.35
	For Insulation				
1004	Fitter	per day	0.18	806.00	147.50
1007	Helper	per day	0.18	663.00	121.33
	For Cladding				
1004	Fitter	per day	0.19	806.00	153.14
1007	Helper	per day	0.19	663.00	125.97
	Total of C				1208.99
	Total of A+B+C				3256.91
	Add 12% GST (MF= 0.1405)				**457.60**
	TOTAL				**3714.50**
	Overhead and Profits @ 15%				**557.18**
	Grand Total				**4271.68**
	Say Rs.				**4272.00**

16.7.3.6 NON - RETURN VALVE of 65 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3045	Basic Price (Valve) - 65 mm dia.	Each	1	1599.20	1599.20
	Add for Cartage etc. @ 1%				15.99
	Total (A)				1615.19
	B Insulation				
4026	Basic Price of Insulation	m	0.2	152.54	30.51
3023	Add Valve Cladding	sqm	0.07	360.00	26.00
	Total				56.51
	Add wastage @ 10%				5.65
	Total				62.16
	Add for Cartage etc. @ 1%				0.62
	Total (B)				62.78
	Total (A+B)				1677.97
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.25	806.00	201.50
1087	Welder	per day	0.2	806.00	161.20
1007	Helper	per day	0.45	663.00	298.35
	For Insulation				
1004	Fitter	per day	0.18	806.00	145.08
1007	Helper	per day	0.18	663.00	119.34
	For Cladding				
1004	Fitter	per day	0.19	806.00	153.14
1007	Helper	per day	0.19	663.00	125.97
	Total of C				1204.58
	Total of A+B+C				2882.55
	Add 12% GST (MF= 0.1405)				405.00
	TOTAL				3287.55
	Overhead and Profits @ 15%				493.13
	Grand Total				3780.68
	Say Rs.				3781.00

16.7.4 Y - STRAINER of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified.

16.7.4.1 Y - STRAINER of 200 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3046	Basic Price (Valve) - 200 mm dia.	Each	1	35614.00	35614.00
	Add for Cartage etc. @ 1%				356.14
	Total (A)				35970.14
	B Insulation				
4021	Basic Price of Insulation	m	0.3	549.15	164.75
3023	Add Valve Cladding	sqm	0.283	360.00	101.74
	Total				266.48
	Add wastage @ 10%				26.65
	Total				293.13
	Add for Cartage etc. @ 1%				2.93
	Total (B)				296.06
	Total (A+B)				36266.20
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.50	806.00	403.00
1087	Welder	per day	0.20	806.00	161.20
1007	Helper	per day	0.70	663.00	464.10
	For Insulation				
1004	Fitter	per day	0.20	806.00	161.20
1007	Helper	per day	0.20	663.00	132.60
	For Cladding				
1004	Fitter	per day	0.22	806.00	177.32
1007	Helper	per day	0.22	663.00	145.86
	Total of C				1645.28
	Total of A+B+C				37911.48
	Add 12% GST (MF= 0.1405)				5326.56
	TOTAL				43238.04
	Overhead and Profits @ 15%				6485.71
	Grand Total				49723.75
	Say Rs.				49724.00

16.7.4.2 Y - STRAINER of 150 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3047	Basic Price (Valve) - 150 mm dia.	Each	1	19350.00	19350.00
	Add for Cartage etc. @ 1%				193.50
	Total (A)				19543.50
	B Insulation				
4022	Basic Price of Insulation	m	0.3	260.85	78.25
3023	Add Valve Cladding	sqm	0.24	360.00	84.78
	Total				163.03

	Add wastage @ 10%				16.30
	Total				179.34
	Add for Cartage etc. @ 1%				1.79
	Total (B)				181.13
	Total (A+B)				19724.63
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	806.00	403.00
1087	Welder	per day	0.2	806.00	161.20
1007	Helper	per day	0.75	663.00	497.25
	For Insulation				
1004	Fitter	per day	0.2	806.00	161.20
1007	Helper	per day	0.2	663.00	132.60
	For Cladding				
1004	Fitter	per day	0.2	806.00	161.20
1007	Helper	per day	0.2	663.00	132.60
	Total of C				1649.05
	Total of A+B+C				21373.68
	Add 12% GST (MF= 0.1405)				**3003.00**
	TOTAL				**24376.68**
	Overhead and Profits @ 15%				**3656.50**
	Grand Total				**28033.19**
	Say Rs.				**28033.00**

16.7.4.3 Y - STRAINER of 125 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3048	Basic Price (Valve) - 125 mm dia.	Each	1	14769.00	14769.00
	Add for Cartage etc. @ 1%				147.69
	Total (A)				14916.69
	B Insulation				
4023	Basic Price of Insulation	m	0.3	229.58	68.87
3023	Add Valve Cladding	sqm	0.19	360.00	69.52
	Total				138.39
	Add wastage @ 10%				13.84
	Total				152.23
	Add for Cartage etc. @ 1%				1.52
	Total (B)				153.75
	Total (A+B)				15070.44
	C' Labour				
	For fixing				

1004	Fitter	per day	0.50	806.00	407.02
1087	Welder	per day	0.20	806.00	165.22
1007	Helper	per day	0.71	663.00	470.72
	For Insulation				
1004	Fitter	per day	0.20	806.00	165.22
1007	Helper	per day	0.20	663.00	135.91
	For Cladding				
1004	Fitter	per day	0.20	806.00	165.22
1007	Helper	per day	0.20	663.00	135.91
	Total of C				1645.22
	Total of A+B+C				16715.67
	Add 12% GST (MF= 0.1405)				2348.55
	TOTAL				19064.22
	Overhead and Profits @ 15%				2859.63
	Grand Total				21923.85
	Say Rs.				21924.00

16.7.4.4 Y - STRAINER of 100 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3049	Basic Price (Valve) - 100 mm dia.	Each	1	9325.00	9325.00
	Add for Cartage etc. @ 1%				93.25
	Total (A)				9418.25
	B Insulation				
4024	Basic Price of Insulation	m	0.3	202.12	60.64
3023	Add Valve Cladding	sqm	0.17	360.00	61.04
	Total				121.68
	Add wastage @ 10%				12.17
	Total				133.84
	Add for Cartage etc. @ 1%				1.34
	Total (B)				135.18
	Total (A+B)				9553.43
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.50	806.00	406.95
1087	Welder	per day	0.20	806.00	165.15
1007	Helper	per day	0.71	663.00	470.60
	For Insulation				
1004	Fitter	per day	0.20	806.00	165.15
1007	Helper	per day	0.20	663.00	135.85
	For Cladding				

1004	Fitter	per day	0.20	806.00	165.15
1007	Helper	per day	0.20	663.00	135.85
	Total of C				1644.69
	Total of A+B+C				11198.13
	Add 12% GST (MF= 0.1405)				**1573.34**
	TOTAL				**12771.46**
	Overhead and Profits @ 15%				**1915.72**
	Grand Total				**14687.18**
	Say Rs.				**14687.00**

16.7.4.5 Y - STRAINER of 80 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3050	Basic Price (Valve) - 80 mm dia.	Each	1	6237.00	6237.00
	Add for Cartage etc. @ 1%				62.37
	Total (A)				6299.37
	B Insulation				
4025	Basic Price of Insulation	m	0.2	167.03	33.41
3023	Add Valve Cladding	sqm	0.12	360.00	44.09
	Total				77.49
	Add wastage @ 10%				7.75
	Total				85.24
	Add for Cartage etc. @ 1%				0.85
	Total (B)				86.09
	Total (A+B)				6385.46
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.25	806.00	201.50
1087	Welder	per day	0.20	806.00	161.20
1007	Helper	per day	0.45	663.00	298.35
	For Insulation				
1004	Fitter	per day	0.15	806.00	120.90
1007	Helper	per day	0.15	663.00	99.45
	For Cladding				
1004	Fitter	per day	0.18	806.00	146.69
1007	Helper	per day	0.18	663.00	120.67
	Total of C				1148.76
	Total of A+B+C				7534.22
	Add 12% GST (MF= 0.1405)				**1058.56**
	TOTAL				**8592.78**
	Overhead and Profits @ 15%				**1288.92**
	Grand Total				**9881.70**
	Say Rs.				**9882.00**

16.7.4.6 Y - STRAINER of 65 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3051	Basic Price (Valve) - 65 mm dia.	Each	1	4804.00	4804.00
	Add for Cartage etc. @ 1%				48.04
	Total (A)				4852.04
4026	B Insulation				
	Basic Price of Insulation - 25 mm	m	0.2	152.54	30.51
3023	Add Valve Cladding	sqm	0.07	360.00	26.00
	Total				56.51
	Add wastage @ 10%				5.65
	Total				62.16
	Add for Cartage etc. @ 1%				0.62
	Total (B)				62.78
	Total (A+B)				4914.82
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.25	806.00	201.89
1087	Welder	per day	0.20	806.00	165.15
1007	Helper	per day	0.46	663.00	301.92
	For Insulation				
1004	Fitter	per day	0.15	806.00	121.29
1007	Helper	per day	0.15	663.00	99.77
	For Cladding				
1004	Fitter	per day	0.18	806.00	145.47
1007	Helper	per day	0.18	663.00	119.66
	Total of C				1155.18
	Total of A+B+C				6070.00
	Add 12% GST (MF= 0.1405)				**852.83**
	TOTAL				**6922.83**
	Overhead and Profits @ 15%				**1038.42**
	Grand Total				**7961.26**
	Say Rs.				**7961.00**

16.7.4.7 Y - STRAINER of 50 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3052	Basic Price (Valve) - 50 mm dia.	Each	1	3375.00	3375.00
	Add for Cartage etc. @ 1%				33.75
	Total (A)				3408.75
	B Insulation				
4027	Basic Price of Insulation	m	0.2	134.24	26.85
3023	Add Valve Cladding	sqm	0.06	360.00	22.61
	Total				49.46
	Add wastage @ 10%				4.95
	Total				54.40
	Add for Cartage etc. @ 1%				0.54
	Total (B)				54.95
	Total (A+B)				3463.70
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.2	806.00	161.20
1087	Welder	per day	0.2	806.00	161.20
1007	Helper	per day	0.4	663.00	265.20
	For Insulation				
1004	Fitter	per day	0.15	806.00	120.90
1007	Helper	per day	0.15	663.00	99.45
	For Cladding				
1004	Fitter	per day	0.15	806.00	120.90
1007	Helper	per day	0.15	663.00	99.45
	Total of C				1028.30
	Total of A+B+C				4492.00
	Add 12% GST (MF= 0.1405)				**631.13**
	TOTAL				**5123.12**
	Overhead and Profits @ 15%				**768.47**
	Grand Total				**5891.59**
	Say Rs.				**5892.00**

16.7.4.8 Y - STRAINER of 40 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3053	Basic Price (Valve) - 40 mm dia.	Each	1	2471.00	2471.00
	Add for Cartage etc. @ 1%				24.71
	Total (A)				2495.71
	B Insulation				
4028	Basic Price of Insulation	m	0.2	119.75	23.95
3023	Add Valve Cladding	sqm	0.06	360.00	20.35
	Total				44.30
	Add wastage @ 10%				4.43
	Total				48.73

	Add for Cartage etc. @ 1%				0.49
	Total (B)				49.21
	Total (A+B)				2544.92
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.15	806.00	120.90
1087	Welder	per day	0.15	806.00	120.90
1007	Helper	per day	0.3	663.00	198.90
	For Insulation				
1004	Fitter	per day	0.14049	806.00	113.23
1007	Helper	per day	0.14049	663.00	93.14
	For Cladding				
1004	Fitter	per day	0.11049	806.00	89.05
1007	Helper	per day	0.11049	663.00	73.25
	Total of C				809.39
	Total of A+B+C				3354.31
	Add 12% GST (MF= 0.1405)				**471.28**
	TOTAL				**3825.59**
	Overhead and Profits @ 15%				**573.84**
	Grand Total				**4399.43**
	Say Rs.				**4399.00**

16.8 Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3054	Basic Price of pressure gauges	Each	1.00	811.53	811.53
	Add for cartage etc. @ 1%				8.12
	Total				819.64
	(B) Labour for Fixing				
1004	Fitter	per day	0.15	806.00	120.90
1007	Helper	per day	0.15	663.00	99.45
	Total				220.35
	Total(A+B)				1039.99
	Overhead and Profits @ 15%				156.00
	Total				1195.99
	OR SAY Rs.				**1196.00**

16.9 Providing & fixing in position the mercury in glass industrial type thermometers.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3055	Basic Price of thermometer	Each	1	640.68	640.68
	Add Packaging, forwarding and freight etc. @ 1%				6.41
	Total				647.08
	(B) Labour for Fixing				
1004	Fitter	per day	0.10	**806.00**	80.60
1007	Helper	per day	0.10	**663.00**	67.69
	Total(B)				148.29
	Total(A+B)				795.38
	Add 12% GST (MF= 0.1405)				**111.75**
	TOTAL				**907.13**
	Overhead and Profits @ 15%				**136.07**
	Grand Total				**1043.20**
	OR SAY Rs.				**1043.00**
	Rs.				

16.10 Condenser water pipes

16.10.1 Supplying, fixing, testing and commissioning of condenser water pipes of following sizes of MS 'C' class along with necessary clamps, vibration isolators and fittings such as bends,tees etc.but excluding valves, strainers, gauges etc. adequately supported on rigid supports duly painted/buried in ground excavation and refilling etc. as per specification and as required complete in all respect.

Note:-The Pipes size 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. And from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.

16.10.1.1 Condenser water piping of nominal size - 300mm dia.

COST FOR 10 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3003	A(1) Basic Price M.S. Pipe - 300 mm dia.	per meter	10	4369.40	43694.00
	add for wastage@5%				2184.70
	Total of (AI)				**45878.70**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				6881.81
	Total of (A(I)+A(2))				**52760.51**
	Add for cartage etc. @ 1%of (A(1)+A(2))				527.61
	Total of A				**53288.11**
	B(Labour)				
	B For Piping work				
1004	Fitter	per day	3.00	806.00	2418.00
1087	Welder	per day	0.95	806.00	765.70
1006	Painter	per day	0.75	734.00	550.50
1007	Helper	per day	4.70	663.00	3116.10
	Total of B(1)				**6850.30**
	Total A+B				60138.41
	Add 12% GST (MF= 0.1405)				**8449.45**
	TOTAL				**68587.86**
	C Overhead and Profits @ 15% of (A+B)				**10288.18**
	Total				**78876.04**
	Rate for 1 meter				7887.60
	OR SAY Rs.				**7888.00**

16.10.1.2 Condenser water piping of nominal size - 250mm dia.

COST FOR 10 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3004	A(1) Basic Price M.S. Pipe - 250 mm dia.	per meter	10	3684.10	36841.00
	add for wastage@5%				1842.05
	Total of (AI)				38683.05
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				5802.46
	Total of (A(I)+A(2))				44485.51
	Add for cartage etc. @ 1%of (A(1)+A(2))				444.86
	Total of A				44930.36
	B(Labour)				
	B For Piping work				
1004	Fitter	per day	2.50	806.00	2015.00
1087	Welder	per day	0.95	806.00	765.70

1006	Painter	per day	0.52	734.00	381.68
1007	Helper	per day	3.97	663.00	2632.11
	Total of B(1)				5794.49
	Total A+B				50724.85
	Add 12% GST (MF= 0.1405)				**7126.84**
	TOTAL				**57851.69**
	C Overhead and Profits @ 15% of (A+B)				**8677.75**
	Total				**66529.45**
	Rate for 1 meter				6652.94
	TOTAL				6652.94
	OR SAY Rs.				6653.00

16.10.1.3 Condenser water piping of nominal size - 200mm dia.

COST FOR 10 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3005	A(1) Basic Price M.S. Pipe - 200 mm dia.	per meter	10	2936.50	29365.00
	add for wastage@5%				1468.25
	Total of (Al)				**30833.25**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				4624.99
	Total of (A(l)+A(2))				**35458.24**
	Add for cartage etc. @ 1%of (A(1)+A(2))				354.58
	Total of A				**35812.82**
	B(Labour)				
	B For Piping work				
1004	Fitter	per day	2.86	806.00	2305.16
1087	Welder	per day	0.95	806.00	765.70
1006	Painter	per day	0.52	734.00	381.68
1007	Helper	per day	4.33	663.00	2870.79
	Total of B(1)				**6323.33**
	Total A+B				42136.15
	Add 12% GST (MF= 0.1405)				**5920.13**
	TOTAL				**48056.28**
	C Overhead and Profits @ 15% of (A+B)				**7208.44**
	Total				**55264.72**
	Rate for 1 meter				5526.47
	OR SAY Rs.				**5526.00**

16.10.1.4 Condenser water piping of nominal size - 150mm dia.

COST FOR 10 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3006	A(1) Basic Price M.S. Pipe - 150 mm dia.	per meter	10	1815.80	18158.00
	add for wastage@5%				907.90
	Total of (AI)				19065.90
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				2859.89
	Total of (A(I)+A(2))				21925.79
	Add for cartage etc. @ 1%of (A(1)+A(2))				219.26
	Total of A				22145.04
	B(Labour)				
	B For Piping work				
1004	Fitter	per day	2.68	806.00	2160.08
1087	Welder	per day	0.95	806.00	765.70
1006	Painter	per day	0.52	734.00	381.68
1007	Helper	per day	4.15	663.00	2751.45
	Total of B(1)				6058.91
	Total A+B				28203.95
	Add 12% GST (MF= 0.1405)				**3962.66**
	TOTAL				**32166.61**
	C Overhead and Profits @ 15% of (A+B)				**4824.99**
	Total				**36991.60**
	Rate for 1 meter				3699.16
	OR SAY Rs.				**3699.00**

16.10.1.5 Condenser water piping of nominal size - 125mm dia.

COST FOR 10 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3007	**A(1) Basic Price M.S. Pipe - 125 mm dia.**	per meter	10	1526.00	**15260.00**
	add for wastage@5%				**763.00**
	Total of (AI)				**16023.00**
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				**2403.45**
	Total of (A(I)+A(2))				**18426.45**

	Add for cartage etc. @ 1%of (A(1)+A(2))				184.26
	Total of A				18610.71
	B(Labour)				
	B For Piping work				
1004	Fitter	per day	2.50	806.00	2015.00
1087	Welder	per day	0.91	806.00	733.46
1006	Painter	per day	0.52	734.00	381.68
1007	Helper	per day	3.93	663.00	2605.59
	Total of B(1)				5735.73
	Total A+B				24346.44
	Add 12% GST (MF= 0.1405)				**3420.68**
	TOTAL				**27767.12**
	C Overhead and Profits @ 15% of (A+B)				**4165.07**
	Total				**31932.19**
	Rate for 1 meter				3193.22
	TOTAL				3193.22
	OR SAY Rs.				**3193.00**

16.10.1.6 Condenser water piping of nominal size - 100mm dia.

COST FOR 10 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3008	A(1) Basic Price M.S. Pipe - 100 mm dia.	per meter	10	1237.60	12376.00
	add for wastage@5%				618.80
	Total of (AI)				12994.80
	A(2) Add for necessary brackets, supports,saddles,clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1949.22
	Total of (A(I)+A(2))				14944.02
	Add for cartage etc. @ 1%of (A(1)+A(2))				149.44
	Total of A				15093.46
	B(Labour)				
	B For Piping work				
1004	Fitter	per day	2.40	806.00	1934.40
1087	Welder	per day	0.80	806.00	644.80
1006	Painter	per day	0.52	734.00	381.68
1007	Helper	per day	3.72	663.00	2466.36
	Total of B(1)				5427.24
	Total A+B				20520.70
	Add 12% GST (MF= 0.1405)				**2883.16**
	TOTAL				**23403.86**

	C Overhead and Profits @ 15% of (A+B)	3510.58
	Total	26914.44
	Rate for 1 meter	2691.44
	TOTAL	2691.44
	OR SAY Rs.	2691.00

VALVES WITHOUT INSULATION

16.11 Supplying, fixing, testing and commissioning of following valves, gauges and strainers for condenser water circulation as per specifications.

16.11.1 BUTTERFLY VALVE (MANUAL) with C I body SS disc nitrile sheet & O - ring & PN 16 pressure rating as specified.

16.11.1.1 BUTTERFLY VALVE (MANUAL) 200 mm

COST FOR 10 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3024	Basic Price (Valve) - 200 mm dia.	Each	1	9777.00	9777.00
	Add for cartage etc. @ 1%of A				97.77
	Total (A)				9874.77
	B Labour				
	For fixing				
1004	Fitter	per day	0.5	806.00	382.85
1087	Welder	per day	0.2	806.00	120.90
1007	Helper	per day	0.6	663.00	414.38
	Total of B				918.13
	Total of A+B				10792.90
	Add 12% GST (MF= 0.1405)				**1516.40**
	TOTAL				**12309.30**
	Overhead and Profits @ 15%				**1846.39**
	Grand Total				**14155.69**
	Say Rs.				**14156.00**

16.11.1.2 BUTTERFLY VALVE (MANUAL) of 150 mm dia

COST FOR 10 METERS

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3025	Basic Price (Valve) - 150 mm dia.	Each	1	4306.80	4306.80
	Add for cartage etc. @ 1%				43.07
	Total (A)				4349.87
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.50	806.00	403.00
1087	Welder	per day	0.19	806.00	152.33
1007	Helper	per day	0.69	663.00	456.81
	Total of B				1012.14
	Total of A+B				5362.01
	Add 12% GST (MF= 0.1405)				**753.36**
	TOTAL				**6115.37**
	Overhead and Profits @ 15%				**917.31**
	Grand Total				**7032.68**
	Say Rs.				**7033.00**

16.11.1.3 BUTTERFLY VALVE (MANUAL) 125 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3026	Basic Price (Valve) - 125 mm dia.	Each	1	3814.20	3814.20
	Add for cartage etc. @ 1%of A				38.14
	Total (A)				3852.34
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.5	806.00	403.00
1087	Welder	per day	0.2	806.00	155.56
1007	Helper	per day	0.7	663.00	459.46
	Total of B				1018.02
	Total of A+B				4870.36
	Add 12% GST (MF= 0.1405)				**684.29**
	TOTAL				**5554.64**
	Overhead and Profits @ 15%				**833.20**
	Grand Total				**6387.84**
	Say Rs.				**6388.00**

16.11.1.4 BUTTERFLY VALVE (MANUAL) 100 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3027	Basic Price (Valve) - 100 mm dia.	Each	1	3060.60	3060.60
	Add for cartage etc. @ 1%				30.61
	Total (A)				3091.21
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.5	806.00	403.00
1087	Welder	per day	0.2	806.00	165.07
1007	Helper	per day	0.7	663.00	467.28
	Total of B				1035.35
	Total of A+B				4126.56
	Add 12% GST (MF= 0.1405)				**579.78**
	TOTAL				**4706.34**
	Overhead and Profits @ 15%				**705.95**
	Grand Total				**5412.29**
	Say Rs.				**5412.00**

16.11.1.5 BUTTERFLY VALVE (MANUAL) 80 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3028	Basic Price (Valve) - 80 mm dia.	Each	1	2387.40	2387.40
	Add for cartage etc. @ 1%				23.87
	Total (A)				2411.27
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.30	806.00	244.22
1087	Welder	per day	0.16	806.00	128.96
1007	Helper	per day	0.46	663.00	306.97
	Total of B				680.15
	Total of A+B				3091.42
	Add 12% GST (MF= 0.1405)				**434.34**
	TOTAL				**3525.77**
	Overhead and Profits @ 15%				**528.86**
	Grand Total				**4054.63**
	Say Rs.				**4055.00**

16.11.1.6 BUTTERFLY VALVE (MANUAL) 65 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3029	Basic Price (Valve) - 65 mm dia.	Each	1	2178.60	2178.60
	Add for cartage etc. @ 1%				21.79
	Total (A)				2178.60
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.3	806.00	241.80
1087	Welder	per day	0.2	806.00	161.20
1007	Helper	per day	0.5	663.00	331.50
	Total of B				734.50
	Total of A+B				2913.10
	Add 12% GST (MF= 0.1405)				**409.29**
	TOTAL				**3322.39**
	Overhead and Profits @ 15%				**498.36**
	Grand Total				**3820.75**
	Say Rs.				**3821.00**

16.11.1.7 BUTTERFLY VALVE (MANUAL) 50 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3030	Basic Price (Valve) - 50 mm dia.	Each	1	2019.60	2019.60
	Add for cartage etc. @ 1%				20.20
	Total (A)				2039.80
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.22	806.00	179.50
1087	Welder	per day	0.15	806.00	120.90
1007	Helper	per day	0.37	663.00	247.10
	Total of B				547.50
	Total of A+B				2587.29
	Add 12% GST (MF= 0.1405)				**363.51**
	TOTAL				**2950.81**
	Overhead and Profits @ 15%				**442.62**
	Grand Total				**3393.43**
	Say Rs.				**3393.00**

16.11.1.8 BUTTERFLY VALVE (MANUAL) 40 mm

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3031	Basic Price (Valve) - 40 mm dia.	Each	1	1764.00	1764.00
	Add for cartage etc. @ 1%				17.64
	Total (A)				1781.64
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.15	806.00	124.12
1087	Welder	per day	0.12	806.00	96.72
1007	Helper	per day	0.27	663.00	181.66
	Total of B				402.51
	Total of A+B				2184.15
	Add 12% GST (MF= 0.1405)				**306.87**
	TOTAL				**2491.02**
	Overhead and Profits @ 15%				**373.65**
	Grand Total				**2864.67**
	Say Rs.				**2865.00**

16.11.2 NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating as specified.

16.11.2.1 NON - RETURN VALVE of 200 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3040	Basic Price (Valve) - 200 mm dia.	Each	1	8834.40	8834.40
	Add for cartage etc. @ 1%				88.34
	Total (A)				8922.74
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.50	806.00	403.00
1087	Welder	per day	0.16	806.00	124.93
1007	Helper	per day	0.66	663.00	434.27
	Total of B				962.20
	Total of A+B				9884.94
	Add 12% GST (MF= 0.1405)				**1388.83**
	TOTAL				**11273.77**
	Overhead and Profits @ 15%				**1691.07**
	Grand Total				**12964.84**
	Say Rs.				**12965.00**

16.11.2.2 NON - RETURN VALVE of 150 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3041	Basic Price (Valve) - 150 mm dia.	Each	1	4988.80	4988.80
	Add for cartage etc. @ 1%				49.89
	Total (A)				5038.69
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.50	806.00	407.02
1087	Welder	per day	0.16	806.00	132.98
1007	Helper	per day	0.67	663.00	444.20
	Total of B				984.20
	Total of A+B				6022.89
	Add 12% GST (MF= 0.1405)				**846.22**
	TOTAL				**6869.10**
	Overhead and Profits @ 15%				**1030.37**
	Grand Total				**7899.47**
	Say Rs.				**7899.00**

16.11.2.3 NON - RETURN VALVE of 125 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3042	Basic Price (Valve) - 125 mm dia.	Each	1	4074.40	4074.40
	Add for cartage etc. @ 1%				40.74
	Total (A)				4115.14
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.50	806.00	403.00
1087	Welder	per day	0.19	806.00	154.75
1007	Helper	per day	0.69	663.00	458.80
	Total of B				1016.55
	Total of A+B				5131.69
	Add 12% GST (MF= 0.1405)				**721.00**
	TOTAL				**5852.69**
	Overhead and Profits @ 15%				**877.90**
	Grand Total				**6730.60**
	Say Rs.				**6731.00**

16.11.2.4 NON - RETURN VALVE 100 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3043	Basic Price (Valve) - 100 mm dia.	Each	1	2817.60	2817.60
	Add for cartage etc. @ 1%				28.18
	Total (A)				2845.78
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.50	806.00	404.61
1087	Welder	per day	0.20	806.00	165.15
1007	Helper	per day	0.71	663.00	468.67
	Total of B				1038.44
	Total of A+B				3884.21
	Add 12% GST (MF= 0.1405)				**545.73**
	TOTAL				**4429.94**
	Overhead and Profits @ 15%				**664.49**
	Grand Total				**5094.44**
	Say Rs.				**5094.00**

16.11.2.5 NON - RETURN VALVE of 80 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3044	Basic Price (Valve) - 80 mm dia.	Each	1	1942.40	1942.40
	Add for cartage etc. @ 1%				19.42
	Total (A)				1961.82
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.32	806.00	257.92
1087	Welder	per day	0.15	806.00	120.09
1007	Helper	per day	0.47	663.00	310.95
	Total of B				688.96
	Total of A+B				2650.79
	Add 12% GST (MF= 0.1405)				**372.44**
	TOTAL				**3023.22**
	Overhead and Profits @ 15%				**453.48**
	Grand Total				**3476.70**
	Say Rs.				**3477.00**

16.11.2.6 NON - RETURN VALVE of 65 mm dia

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3045	Basic Price (Valve) - 65 mm dia.	Each	1	1599.20	1599.20
	Add for cartage etc. @ 1%				15.99
	Total (A)				1615.19
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.32	806.00	261.14
1087	Welder	per day	0.15	806.00	124.12
1007	Helper	per day	0.48	663.00	316.91
	Total of B				702.18
	Total of A+B				2317.37
	Add 12% GST (MF= 0.1405)				**325.59**
	TOTAL				**2642.97**
	Overhead and Profits @ 15%				**396.44**
	Grand Total				**3039.41**
	Say Rs.				**3039.00**

16.11.3 Supplying, fixing, testing and commissioning of following sizes Motorized Butter fly Valves with CI Body, SS Disc,O - ring and minimum PN-16 pressure rating , conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC and upto 20mA electric signal and providing similar transduced feedback output to control system as required.

16.11.3.1 350mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3101	(A) Basic Price	each	1.00	79862.80	79862.80
	Cartage @ 1% of materials				798.63
	ITC including wiring @6 % of A				4791.77
	Sub Total				85453.19
	Add 12% GST (MF= 0.1405)				**12006.17**
	TOTAL				**97459.37**
	Add 15 % Over Head & Contractor Profit				**14618.90**
	Cost for Each				**112078.27**
	Say				**112078.00**

16.11.3.2 300mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3102	(A) Basic Price	each	1.00	71566.78	71566.78
	Cartage @ 1% of materials				715.67
	ITC including wiring @6% of A				4294.01
	Sub Total				76576.45
	Add 12% GST (MF= 0.1405)				**10758.99**
	TOTAL				**87335.45**
	Add 15 % Over Head & Contractor Profit				**13100.32**
	Cost for Each				**100435.76**
	Say				**100436.00**

16.11.3.3 250mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3103	(A) Basic Price	each	1.00	51524.24	51524.24
	Cartage @ 1% of materials				515.24
	ITC including wiring @6% of A				3091.45
	Sub Total				55130.93
	Add 12% GST (MF= 0.1405)				**7745.90**
	TOTAL				**62876.83**
	Add 15 % Over Head & Contractor Profit				**9431.52**
	Cost for Each				**72308.35**
	Say				**72308.00**

16.11.3.4 200mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3104	**(A) Basic Price**	each	1.00	38864.75	**38864.75**
	Cartage @ 1% of materials				**388.65**
	ITC including wiring @ 7.5 % of A				**2914.86**
	Sub Total				**42168.25**
	Add 12% GST (MF= 0.1405)				**5924.64**

	TOTAL	48092.89
	Add 15 % Over Head & Contractor Profit	7213.93
	Cost for Each	55306.82
	Say	55307.00

16.11.3.5 150mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3105	(A) Basic Price	each	1.00	30130.17	30130.17
	Cartage @ 1% of materials				301.30
	ITC including wiring @ 7.5 % of A				2259.76
	Sub Total				32691.23
	Add 12% GST (MF= 0.1405)				**4593.12**
	TOTAL				**37284.35**
	Add 15 % Over Head & Contractor Profit				**5592.65**
	Cost for Each				**42877.01**
	Say				**42877.00**

16.11.3.6 125mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3106	(A) Basic Price	each	1.00	29870.85	29870.85
	Cartage @ 1% of materials				298.71
	ITC including wiring @ 7.5 % of A				2240.31
	Sub Total				32409.87
	Add 12% GST (MF= 0.1405)				**4553.59**
	TOTAL				**36963.46**
	Add 15 % Over Head & Contractor Profit				**5544.52**
	Cost for Each				**42507.97**
	Say				**42508.00**

16.11.3.7 100mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3107	(A) Basic Price	each	1.00	29316.36	29316.36
	Cartage @ 1% of materials				293.16
	ITC including wiring @ 7.5 % of A				2198.73
	Sub Total				31808.25
	Add 12% GST (MF= 0.1405)				**4469.06**
	TOTAL				**36277.30**
	Add 15 % Over Head & Contractor Profit				**5441.60**
	Cost for Each				**41718.90**
	Say				**41719.00**

16.11.3.8 80mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3108	(A) Basic Price	each	1.00	12535.17	12535.17
	Cartage @ 1% of materials				125.35
	ITC including wiring @ 7.5 % of A				940.14
	Sub Total				13600.66
	Add 12% GST (MF= 0.1405)				**1910.89**
	TOTAL				**15511.55**
	Add 15 % Over Head & Contractor Profit				**2326.73**
	Cost for Each				**17838.28**
	Say				**17838.00**

16.11.3.9 65mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3109	(A) Basic Price	each	1.00	12413.90	12413.90
	Cartage @ 1% of materials				124.14
	ITC including wiring @ 7.5 % of A				931.04
	Sub Total				13469.08
	Add 12% GST (MF= 0.1405)				**1892.41**
	TOTAL				**15361.49**
	Add 15 % Over Head & Contractor Profit				**2304.22**
	Cost for Each				**17665.71**
	Say				**17666.00**

16.11.3.10 50mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3110	(A) Basic Price	each	1.00	12159.92	12159.92
	Cartage @ 1% of materials				121.60
	ITC including wiring @ 7.5 % of A				911.99
	Sub Total				13193.51
	Add 12% GST (MF= 0.1405)				1853.69
	TOTAL				**15047.20**
	Add 15 % Over Head & Contractor Profit				**2257.08**
	Cost for Each				**17304.28**
	Say				**17304.00**

16.11.4 Supply, Installation, Testing and Commissioning of following sizes electronic, self-balancing, pressure independent type dynamic balancing valve with integrated 2 way modualating control valves in a single body. The actuator shall be capable of accepting upto 10V DC and upto 20mA electric signal and shall provide similar transduced feedback output to control system. Maximum close off pressure shall not be less than 6 Bar for upto 50 mm valves and not be less than 7 Bar for 65 mm & above. Valves should have pressure rating of 25 Bar minimum.

16.11.4.1 150mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3111	(A) Basic Price	each	1.00	115183.22	115183.22
	Cartage @ 1% of materials				1151.83
	ITC including wiring @6% of A				6910.99
	Sub Total				123246.05
	Add 12% GST (MF= 0.1405)				**17316.07**
	TOTAL				**140562.12**
	Add 15 % Over Head & Contractor Profit				**21084.32**
	Cost for Each				**161646.43**
	Say				**161646.00**

16.11.4.2 125mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3112	(A) Basic Price	each	1.00	104868.31	104868.31
	Cartage @ 1% of materials				1048.68
	ITC including wiring @6 % of A				6292.10
	Sub Total				112209.09
	Add 12% GST (MF= 0.1405)				15765.38
	TOTAL				127974.46
	Add 15 % Over Head & Contractor Profit				19196.17
	Cost for Each				147170.63
	Say				147171.00

16.11.4.3 100mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3113	**(A) Basic Price**	each	1.00	82519.32	**82519.32**
	Cartage @ 1% of materials				**825.19**
	ITC including wiring @6% of A				**4951.16**
	Sub Total				**88295.67**
	Add 12% GST (MF= 0.1405)				**12405.54**
	TOTAL				**100701.22**
	Add 15 % Over Head & Contractor Profit				**15105.18**
	Cost for Each				**115806.40**
	Say				**115806.00**

16.11.4 4 80mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3114	(A) Basic Price	Each	1.00	48136.27	48136.27
	Cartage @ 1% of materials				481.36
	ITC including wiring @ 7.5 % of A				3610.22
	Sub Total				52227.85
	Add 12% GST (MF= 0.1405)				7338.01
	TOTAL				**59565.87**
	Add 15 % Over Head & Contractor Profit				**8934.88**
	Cost for Each				**68500.75**
	Say				**68501.00**

16.11.4.5 65mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3115	(A) Basic Price	each	1.00	37821.36	37821.36
	Cartage @ 1% of materials				378.21
	ITC including wiring @ 7.5 % of A				2836.60
	Sub Total				41036.17
	Add 12% GST (MF= 0.1405)				**5765.58**
	TOTAL				**46801.75**
	Add 15 % Over Head & Contractor Profit				**7020.26**
	Cost for Each				**53822.02**
	Say				**53822.00**

16.11.4.6 50mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3116	(A) Basic Price	each	1.00	24498.31	24498.31
	Cartage @ 1% of materials				244.98
	ITC including wiring @ 7.5 % of A				1837.37
	Sub Total				26580.66
	Add 12% GST (MF= 0.1405)				**3734.58**
	TOTAL				**30315.24**
	Add 15 % Over Head & Contractor Profit				**4547.29**
	Cost for Each				**34862.53**
	Say				**34863.00**

16.11.4.7 40mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3117	(A) Basic Price	each	1.00	22348.98	22348.98
	Cartage @ 1% of materials				223.49
	ITC including wiring @ 7.5 % of A				1676.17
	Sub Total				24248.65
	Add 12% GST (MF= 0.1405)				3406.93
	TOTAL				27655.58
	Add 15 % Over Head & Contractor Profit				4148.34
	Cost for Each				31803.92
	Say				31804.00

16.11.4.8 32mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3113	**(A) Basic Price**	each	1.00	12034.07	**12034.07**
	Cartage @ 1% of materials				**120.34**
	ITC including wiring @ 7.5 % of A				**902.56**
	Sub Total				**13056.96**
	Add 12% GST (MF= 0.1405)				**1834.50**
	TOTAL				**14891.47**
	Add 15 % Over Head & Contractor Profit				**2233.72**
	Cost for Each				**17125.19**
	Say				**17125.00**

16.11.4 9 25mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3119	(A) Basic Price	Each	1.00	11318.64	11318.64
	Cartage @ 1% of materials				113.19
	ITC including wiring @ 7.5 % of A				848.90
	Sub Total				12280.73
	Add 12% GST (MF= 0.1405)				1725.44
	TOTAL				14006.17
	Add 15 % Over Head & Contractor Profit				2100.93
	Cost for Each				16107.10
	Say				16107.00

16.11.4.10 20mm dia.

COST FOR EACH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3120	(A) Basic Price	each	1.00	8251.78	8251.78
	Cartage @ 1% of materials				82.52
	ITC including wiring @ 7.5 % of A				618.88
	Sub Total				8953.18
	Add 12% GST (MF= 0.1405)				1257.92
	TOTAL				10211.10
	Add 15 % Over Head & Contractor Profit				1531.67
	Cost for Each				11742.77
	Say				11743.00

DUCTING, GRILLS,DIFFUSER AND INSULATION

16.12.1 Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.

16.12.1.1 factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3056	Basic Price of 0.63 mm sheet duct	per sqm	10	500.34	5003.39
	Add Supports like MS angles, channels, rods, anchor bolts and other accessorries etc. @ 15%				750.5 1
	Total of A				5753.90
	(B) Cartage @ 1%				57.54
	Total (A+B)				5811.44
	(C) Labour				
	Labour for boxing of L-section.@05%				290.57
	Labour for Fixing				
1004	Fitter	per day	1.45	806.00	1168.70
1007	Helper	per day	1.45	663.00	961.35
	Total of (C)labour				2420.62
	Total of A+B+C				8232.06
	Add 12% GST (MF= 0.1405)				**1156.60**
	TOTAL				**9388.66**
	Overhead and Profits @ 15%				**1408.30**
	TOTAL				**10796.96**
	For 1sq mt				**1079.70**
	OR SAY Rs.				**1080.00**

16.12.1.2 factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3057	Basic Price of 0.80 mm sheet duct	per sqm	10	614.75	6147.46
	Add Supports like MS angles, channels, rods, anchor bolts and other accessorries etc. @ 15%				922.12
	Total of A				7069.58
	(B) Cartage @ 1%				70.70
	Total (A+B)				7140.27
	(C) Labour				
	Labour for boxing of L-section.@05%				357.01
	Labour for Fixing				
1004	Fitter	per day	1.45	806.00	1168.70
1007	Helper	per day	1.45	663.00	961.35
	Total of (C)labour				2487.06
	Total of A+B+C				9627.34
	Add 12% GST (MF= 0.1405)				**1352.64**
	TOTAL				**10979.98**
	Overhead and Profits @ 15%				**1647.00**
	TOTAL				**12626.97**
	For 1sq mt				**1262.70**
	OR SAY Rs.				**1263.00**

16.12.1.3 factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3058	Basic Price of 1.0 mm sheet duct	per sqm	10	739.83	7398.31
	Add Supports like MS angles, channels, rods, anchor bolts and other accessorries etc. @ 15%				1109.75
	Total of A				8508.05
	(B) Cartage @ 1%				85.08
	Total (A+B)				8593.13
	(C) Labour				
	Labour for boxing of L-section.@05%				425.40
	Labour for Fixing				
1004	Fitter	per day	1.03	806.00	830.18
1007	Helper	per day	1.03	663.00	682.89
	Total of (C)labour				1938.47
	Total of A+B+C				10531.60
	Add 12% GST (MF= 0.1405)				**1479.69**
	TOTAL				**12011.29**
	Overhead and Profits @ 15%				**1801.69**
	TOTAL				**13812.99**
	For 1sq mt				**1381.30**
	OR SAY Rs.				**1381.00**

16.12.1.4 factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3059	Basic Price of 1.25 mm sheet	per sqm	10	886.27	8862.71
	Add Supports like MS angles, channels, rods, anchor bolts and other accessorries etc. @ 15%				1329.41
	Total of A				10192.12
	(B) Cartage @ 1%				101.92
	Total (A+B)				10294.04
	(C) Labour				
	Labour for boxing of L-section.@05%				
	Labour for Fixing				514.70

1004	Fitter	per day	2.17	806.00	1749.02
1007	Helper	per day	2.17	663.00	1438.71
	Total of (C)labour				3702.43
	Total of A+B+C				13996.47
	Add 12% GST (MF= 0.1405)				1966.50
	TOTAL				**15962.98**
	Overhead and Profits @ 15%				**2394.45**
	TOTAL				**18357.42**
	For 1sq mt				1835.74
	OR SAY Rs.				**1836.00**

16.12.2 Supply, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.

16.12.2.1 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 0.63 mm thick

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3060	Basic Price of 0.63 mm sheet	per sqm	10	398.14	3981.36
	Add Wastage @ 10%				398.14
	Total of A				4379.49
	(B) Cartage @ 1%				43.79
	Total (A+B)				4423.29
	B Labour				
	Labour for Fabrication				
1004	Fitter	per day	1.48	806.00	1192.88
1007	Helper	per day	1.48	663.00	981.24
	Labour for Fixing				
1004	Fitter	per day	1.00	806.00	806.00
1007	Helper	per day	1.00	663.00	663.00
	Total of labour				3643.12
	Total (A+B)				8066.41
	Add 12% GST (MF= 0.1405)				**1133.33**
	TOTAL				**9199.74**
	C Overhead and Profit @ 15% of A+B				**1379.96**
	G Total				**10579.70**
	cost per sqm				**1057.97**
	say				**1058.00**

16.12.2.2 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 0.8. mm thick

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3061	Basic Price of 0.80 mm sheet	per sqm	10	530.85	5308.47
	Add Wastage @ 10%				530.85
	Total of A				5839.32
	(B) Cartage @ 1%				58.39
	Total (A+B)				5897.72
	B Labour				
	Labour for Fabrication				
1004	Fitter	per day	1.48	806.00	1188.85
1007	Helper	per day	1.48	663.00	977.93
	Labour for Fixing				
1004	Fitter	per day	1	806.00	717.34
1007	Helper	per day	1	663.00	590.07
	Total of labour				3474.19
	Total (A+B)				9371.90
	Add 12% GST (MF= 0.1405)				1316.75
	TOTAL				10688.65
	C Overhead and Profit @ 15% of A+B				1603.30
	G Total				12291.95
	cost per sqm				1229.20
	say				1229.00

16.12.2.3 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3062	Basic Price of 1.00 mm sheet	per sqm	10	664.32	6643.22
	Add Wastage @ 10%				664.32
	Total of A				7307.54
	(B) Cartage @ 1%				73.08
	Total (A+B)				7380.62
	B Labour				
	Labour for Fabrication				
1004	Fitter	per day	2.00	806.00	1612.00
1007	Helper	per day	2.00	663.00	1326.00

	Labour for Fixing				
1004	Fitter	per day	1.43	806.00	1152.58
1007	Helper	per day	1.43	663.00	948.09
	Total of labour				5038.67
	Total (A+B)				12419.29
	Add 12% GST (MF= 0.1405)				**1744.91**
	TOTAL				**14164.20**
	C Overhead and Profit @ 15% of A+B				**2124.63**
	G Total				**16288.83**
	cost per sqm				1628.88
	say				**1629.00**

16.12.2.4 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 1.25 mm thick

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3063	Basic Price of 1.25 mm sheet	per sqm	10	803.14	8031.36
	Add Wastage @ 10%				803.14
	Total of A				8834.49
	(B) Cartage @ 1%				88.34
	Total (A+B)				8922.84
	B Labour				
	Labour for Fabrication				
1004	Fitter	per day	2	806.00	1450.80
1007	Helper	per day	2	663.00	1193.40
	Labour for Fixing				
1004	Fitter	per day	1.43	806.00	1152.58
1007	Helper	per day	1.43	663.00	948.09
	Total of labour				4744.87
	Total (A+B)				13667.71
	Add 12% GST (MF= 0.1405)				**1920.31**
	TOTAL				**15588.02**
	C Overhead and Profit @ 15% of A+B				**2338.20**
	G Total				**17926.22**
	cost per sqm				1792.62
	say				**1793.00**

16.13 Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.
GI volume control duct damper

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3064	Basic Price	per sqm	1	4591.53	4591.53
	Add for cartage etc. @ 1%				45.92
	Total of A				4637.44
	(B) Labour for Fixing				
1004	Fitter	per day	0.50	806.00	403.00
1007	Helper	per day	0.50	663.00	331.50
	Total				734.50
	Total of A+B				5371.94
	Add 12% GST (MF= 0.1405)				**754.76**
	TOTAL				**6126.70**
	Overhead and Profits @ 15%				**919.00**
	TOTAL				**7045.70**
	OR SAY Rs.				**7046.00**

16.14 Supply, installation, testing and commissioning of Motorized (ON-OFF Type) duct mounted GI volume control damper with enthalpy sensor and necessary control wire (minimum 1.5 sqmm) for integration within AHU room

Motorized (ON-OFF Type) duct mounted GI volume control damper

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3064	Basic Price	per sqm	1	4591.53	4591.53
	Total			10800.00	4591.53
	Add for cartage etc. @ 1%			4599.15	45.92
	Total of A			6483.81	4637.44
	Labour for Fixing			4072.12	
1004	Fitter	per day	0.50	8809.32	4404.66
1001	Wireman	per day	0.90	5742.46	5179.70
1007	Helper	per day	1.40	351.61	492.96
	Total of B			0.00	10077.32
	Total of A+B			7318.98	14714.76

	Add 12% GST (MF= 0.1405)	**2067.42**
	TOTAL	**16782.18**
	Overhead and Profits @ 15%	**2517.33**
	TOTAL	**19299.51**
	OR SAY Rs.	**19300.00**

16.14.2 Motorized (ON-OFF Type) duct mounted GI volume control Actuator

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3065	Basic Price	each	1	4599.15	4599.15
	Add for cartage etc. @ 1%				45.99
	Total of A				4645.14
	B Labour for Fixing				
1004	Fitter	per day	0.50	806.00	403.00
1001	Wireman	per day	0.90	806.00	727.01
1007	Helper	per day	1.40	663.00	929.53
	Total of B				2059.54
	Total of A+B				6704.68
	Add 12% GST (MF= 0.1405)				**942.01**
	TOTAL				**7646.69**
	Overhead and Profits @ 15%				**1147.00**
	TOTAL				**8793.69**
	OR SAY Rs.				**8794.00**

16.15 Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications.

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3066	Basic Price	per sqm	10	6483.81	64838.14
	Add fo cartage etc. @ 1%				648.38
	Add for screws etc.	LS			260.00
	Total of A				65746.52
	B Labour for Fixing				
1004	Fitter	per day	2.50	806.00	2015.00
1007	Helper	per day	2.50	663.00	1657.50
	Total of B				3672.50

	Total of A+B	69419.02
	Add 12% GST (MF= 0.1405)	**9753.37**
	TOTAL	**79172.39**
	Overhead and Profits @ 15%	**11875.86**
	TOTAL	**91048.25**
	Rate for 1 sqm	9104.82
	OR SAY Rs.	**9105.00**

16.16 Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3067	Basic Price	per sqm	10	4072.12	40721.19
	Add for cartage etc. @ 1%				407.21
	Add for screws etc.	LS			260.00
	Total of A				41388.40
	B Labour for Fixing				
1004	Fitter	per day	2.5	806.00	2015.00
1007	Helper	per day	2.50	663.00	1657.50
	Total of B				3672.50
	Total of A+B				45060.90
	Add 12% GST (MF= 0.1405)				**6331.06**
	TOTAL				**51391.95**
	Overhead and Profits @ 15%				**7708.79**
	TOTAL				**59100.75**
	Rate for 1 sqm				5910.07
	OR SAY Rs.				**5910.00**

16.17 Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3068	Basic Price	per sqm	10	8809.32	88093.22
	Add for cartage etc. @ 1%				880.93
	Add for screws etc.	LS			250.00
	Total of A				89224.15
	B Labour for Fixing				
1004	Fitter	per day	2.50	806.00	2015.00

1007	Helper	per day	2.50	663.00	1657.50
	Total of B				3672.50
	Total of A+B				92896.65
	Add 12% GST (MF= 0.1405)				**13051.98**
	TOTAL				**105948.63**
	Overhead and Profits @ 15%				**15892.29**
	TOTAL				**121840.93**
	Rate for 1 sqm				12184.09
	OR SAY Rs.				**12184.00**

16.18 Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3069	Basic Price	per sqm	10	5742.46	57424.58
	Add for cartage etc. @ 1%				574.25
	Add for screws etc.	LS			250.00
	Total of A				58248.82
	B Labour for Fixing				
1004	Fitter	per day	2.50	806.00	2015.00
1007	Helper	per day	2.50	663.00	1657.50
	Total of B				3672.50
	Total of A+B				61921.32
	Add 12% GST (MF= 0.1405)				**8699.95**
	TOTAL				**70621.27**
	Overhead and Profits @ 15%				**10593.19**
	TOTAL				**81214.46**
	Rate for 1 sqm				8121.45
	OR SAY Rs.				**8121.00**

16.19 Supply, installation, testing & commissioning of thermal insulated flexible duct of following sizes duly supported at regular interval as per site requirement etc. complete as required as per specifications.

16.19.1b Thermal insulated flexible duct (200mmdia)

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

	Total of A+B	69419.02
	Add 12% GST (MF= 0.1405)	**9753.37**
	TOTAL	**79172.39**
	Overhead and Profits @ 15%	**11875.86**
	TOTAL	**91048.25**
	Rate for 1 sqm	9104.82
	OR SAY Rs.	**9105.00**

16.16 Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3070	Basic price	per m	10	351.61	3516.10
	Add for supports etc.@5%				175.81
	Total				3691.91
	Add for cartage etc. @ 1%				36.92
	Total				3728.83
	B Labour for Fixing				
1004	Fitter	per day	0.50	806.00	403.00
1007	Helper	per day	0.50	663.00	331.50
	Total of labour				734.50
	Total				4463.33
	Add 12% GST (MF= 0.1405)				**627.10**
	TOTAL				**5090.42**
	Overhead and Profits @ 15%				**763.56**
	TOTAL				**5853.99**
	For 1meter				585.40
	OR SAY Rs.				**585.00**

16.20 Supplying, Fixing,testing and commissioning of fire dampers in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring,the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted. The damper shall also be closed in the event of fire signal complete as required and as per specifications.

16.20.1 Fire damper

COST FOR 10 METRES DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3071	Basic Price	persqm	1	7318.98	7318.98
	Add for cartage etc. @ 1%				73.19
	Total				7392.17
	B Labour for Fixing				
1004	Fitter	per day	0.50	806.00	403.00
1007	Helper	per day	0.50	663.00	331.50
	Total of labour				734.50
	Total				8126.67
	Add 12% GST (MF= 0.1405)				**1141.80**
	TOTAL				**9268.47**
	Overhead and Profits @ 15%				**1390.27**
	TOTAL				**10658.74**
	OR SAY Rs.				**10659.00**

16.20.2 Actuator

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3072	Basic Price		1	6734.75	6735
	Add for cartage etc. @ 1%				67
	Total				6802
	Labour for Fixing				
1004	Fitter	per day	0.50	806.00	398.97
1001	Wireman	per day	0.04	806.00	30.63
1007	Helper	per day	0.53	663.00	353.38
	Total of labour				782.98
	Total				7585.07
	Add 12% GST (MF= 0.1405)				1065.70
	TOTAL				**8650.77**
	Overhead and Profits @ 15%				**1297.62**
	TOTAL				**9948.39**
	TOTAL				**9948.39**
	OR SAY Rs.				**9948.00**

16.21 Supply and fixing of acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m³, with 25 mm X 25 mm GI section of 1.25 mm thick, at 600 mm centre to centre covered with Reinforced Plastic tissue paper and 0.5 mm thick perforated aluminum sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick pins, CPRX compound etc. complete as required and as per specifications.

16.21 Acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m³

COST FOR 10 SQM

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
4069	Basic Price	persqm	10	117.46	1174.58
	Add Wastage @ 15%				176.19
	Total				1350.76
	Add for Frame work of aluminium channel etc.@25%				293.64
	Total				1644.41
4070	Add for reinforced fiber glass tissue and 0.80 mm perforated aluminium sheet etc.	persqm	10.00	319.58	3195.76
	Total				4840.17
	Add Cartage etc. @ 1%				48.40
	Total of A				4888.57
	B(1) Labour For lining works				
1004	Fitter	per day	0.60	806.00	483.60
1007	Helper	per day	0.60	663.00	397.80
	Total of B(1)				881.40
	B(1) Labour For insulation works				
1004	Fitter	per day	0.30	806.00	241.80
1007	Helper	per day	0.30	663.00	198.90
	Total of B(1)				440.70
	Total				1322.10
	TOTAL				6210.67
	Add 12% GST (MF= 0.1405)				**872.60**
	TOTAL				**7083.27**
	Rate for 1 sqmeter				708.33
	OR SAY Rs.				**708.00**

16.22 Supplying, fixing acoustic lining on wall and ceiling of AHU rooms with 50mm thick, density 32 kg/cu.m resin bonded glass fiber insulation friction fixed in 610mm x 610 mm frame work made of 25X50X50X50X25 mm made out of 0.6mm thick GI sheet U shaped channel and covered with reinforced fiber glass tissue and finished with 0.80 mm perforated aluminium sheet etc. complete as required and as per specifications.

16.22 50 mm thick resin bonded glass wool having density of 32 kg/m³

COST FOR 10 SQM

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

4071	Basic Price	persqm	10	234.15	2341.53
	Add Wastage @ 10%				234.15
	Total				2575.68
	Add for adhesive compound and tape etc. @ 05%				128.78
	Total				5280.14
	Add for Frame work of aluminium channel i/c screws etc. etc.@25%				1320.03
					6600.17
4070	Total		10.00	319.58	3195.76
	Add for reinforced fiber glass tissue and 0.80 mm perforated aluminium sheet etc.				9795.94
	Total				
	Add Cartage etc. @ 1%				97.96
	Total Of A				9893.90
	B(1) Labour For lining works				
1004	Fitter	per day	0.4	806.00	322.40
1007	Helper	per day	0.4	663.00	265.20
	Total of B(1)				587.60
	B(1) Labour For insulation works				
1004	Fitter	per day	0.2	806.00	161.20
1007	Helper	per day	0.2	663.00	132.60
	Total of B(1)				293.80
	Total				881.40
	TOTAL A+B				10775.30
	Add 12% GST (MF= 0.1405)				1513.93
	TOTAL				12289.23
	Rate for 1 sqmeter				1228.92
	OR SAY Rs.				1229.00

16.23.1 Supplying and fixing of following thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.

COST FOR 10 SQM

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3076	Basic Price of nitrile rubber Insulation-9 mm	sqm	10	451.53	4515.25
	Add Wastage @ 05%				225.76
	Total				4741.02
	Add for adhesive compound and tape etc.@05%				225.76
	Total				4966.78
	Add for cartage etc. @ 1%of A				49.67
	Total				5016.45
	B' Labour				
	For Insulation works				
1004	Fitter	per day	0.5	806.00	403.00
1007	Helper	per day	0.5	663.00	331.50
	Total of B				734.50
	Total A+B				5750.95
	Overhead and Profits @ 15% of (A+B)				862.64
	Total				6613.59
	Add 12% GST (MF= 0.1405)				**929.21**
	TOTAL				**7542.80**
	For 1 sq meter				**754.28**
	OR SAY Rs.				**754.00**

16.23.2 Nitrile rubber Insulation - 25 mm

RATE FOR 10 SQ. M.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3077	**Basic Price**	sqm	10	597.97	**5979.66**
	Add Wastage @ 05%				**298.98**
	Total				**6278.64**
	Add for adhesive compound and tape etc. @ 05%				**298.98**
	Total				**6577.63**
	Add for cartage etc. @ 1%of A				**65.78**
	Total				**6643.40**
	B' Labour				
	For Insulation works				
1004	**Fitter**	per day	0.5	806.00	**403.00**
1007	**Helper**	per day	0.5	663.00	**331.50**
	Total of B				**734.50**
	Total A+B				**7377.90**
	Add 12% GST (MF= 0.1405)				**1036.60**
	TOTAL				**8414.50**
	Overhead and Profits @ 15% of (A+B)				**1262.17**
	Total				**9676.67**
	For 1 sq meter				**967.67**
	TOTAL				**967.67**
	OR SAY Rs.				**968.00**

16.24 Supplying and fixing 50 mm thick aluminium foil faced resin bonded fibre glass insulation (on duct) of density 24 kg/cu.m or mineral wool insulation of density 44 kg/cu m after applying two coats of cold setting adhesive (CPRX compound) sealing all joints with self adhesive aluminium tape & covering with 0.63mmx19mm GI wire mesh netting butting all joints and laced with GI wire complete as per specifications and as required. (for indoor applications).

16.24 50 mm thick insulation

RATE FOR 10 SQ. M.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
4072	Basic Price	per sqm	10.00	173.14	1731.36
	Add Wastage @ 10%				173.14
	Total				1904.49
	Add for Adhesive compound,aluminium tape and wire mesh etc.@15%				285.67
	Total				2190.17
	Add for cartage etc. @ 1%				21.90
	Total				2212.07
	B Labour for Fixing				
1004	Fitter	per day	1.00	806.00	806.00
1007	Helper	per day	1.00	663.00	663.00
	Total for labour				1469.00
	Total of A and B				3681.07
	Add 12% GST (MF= 0.1405)				**517.19**
	TOTAL				**4198.26**
	Overhead and Profits @ 15%				**629.74**
	Total				**4828.00**
	Rate for 1 sq m				482.80
	OR SAY Rs.				**483.00**

16.25 Supplying and fixing 50mm thick aluminium foil faced resin bonded fibre glass insulation (on duct) of density 24 kg/cu.m or mineral wool insulation of density 44 kg/cu m after applying two coats of cold setting adhesive (CPRX compound) sealing all joints with self adhesive aluminium tape & covering with 0.63mmx19mm GI wire mesh netting & butting all joints and laced with GI wire complete and finally covered with one layer of tar felt stuck with hot bitumen as per specifications and as required. (for outdoor applications)

16.25 50 mm thick

RATE FOR 10 SQ. M.DUCT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
4072	Basic Price	Sq.m.	10.00	173.14	1731.36
	Add Wastage @ 10%				173.14
	Total				1904.49
	Add for Adhesive compound,aluminium tape and wire mesh etc.@15%				285.67
	Total				2190.17
	Add for cartage etc. @ 1%				21.90
	Total				2212.07
	B Labour for Fixing				
1004	Fitter	per day	1.00	806.00	806.00
1007	Helper	per day	1.00	663.00	663.00
	Total for labour				1469.00
	Total of A and B				3681.07
	LS for bituman and Tar felt				590.00
	Total				4271.07
	Add 12% GST (MF= 0.1405)				**600.08**
	TOTAL				**4871.15**
	Overhead and Profits @ 15%				**730.67**
	Total				**5601.82**
	Rate for 1 sq m				**560.18**
	OR SAY Rs.				**560.00**

16.26 Supply, Installation, Testing and commissioning of factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators,cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 6 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor of effecinecy class IE3 suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply suitably designed for variable frequency drive applications, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.)and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.

16.26.1 Double skin AHU Units of 6 row cooling coil of 4300 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3078	Basic Price		1	75212.54	75212.54
	Add for cartage etc. @ 1%				752.13
	Total A				75964.67
	ITC @6% of A				4557.88
	Total				80522.55
	Add 12% GST (MF= 0.1405)				**11313.42**
	TOTAL				**91835.97**
	Overhead and Profits @ 15%				**13775.39**
	Total				**105611.36**
	OR SAY Rs.				**105611.00**

16.26.3 Double skin AHU Units of 6 row cooling coil of 6800 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3080	Basic Price		1	99433.22	99433.22
	Add for cartage etc. @ 1%				994.33
	Total A				100427.55
	ITC @6% of A				6025.65
	Total				106453.21
	Add 12% GST (MF= 0.1405)				**14956.68**
	TOTAL				**121409.88**
	Overhead and Profits @ 15%				**18211.48**
	Total				**139621.36**
	OR SAY Rs.				**139621.00**

16.26.4 Double skin AHU Units of 6 row cooling coil of 8500 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3081	**Basic Price**		1	123181.02	**123181.02**
	Add for cartage etc. @ 1%				**1231.81**
	Total A				**124412.83**
	ITC @6% of A				**7464.77**
	Total				**131877.60**
	Add 12% GST (MF= 0.1405)				**18528.80**
	TOTAL				**150406.40**
	Overhead and Profits @ 15%				**22560.96**
	Total				**172967.36**
	SAY				**172967.00**

16.26.5 Double skin AHU Units of 6 row cooling coil of 10200 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3082	Basic Price		1	142059.66	142059.66
	Add for cartage etc. @ 1%				1420.60
	Total A				143480.26
	ITC @6% of A				8608.82
	Total				152089.07
	Add 12% GST (MF= 0.1405)				21368.51
	TOTAL				173457.59
	Overhead and Profits @ 15%				26018.64
	Total				199476.23
	SAY				199476.00

16.26.6 Double skin AHU Units of 6 row cooling coil of 11900 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3083	Basic Price		1	161450.85	161450.85
	Add for cartage etc. @ 1%				1614.51
	Total A				163065.36
	ITC @6% of A				9783.92
	Total				172849.28
	Add 12% GST (MF= 0.1405)				**24285.32**
	TOTAL				**197134.60**
	Overhead and Profits @ 15%				**29570.19**
	Total				**226704.79**
	SAY				**226705.00**

16.26.7 Double skin AHU Units of 6 row cooling coil of 13600 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3084	Basic Price		1	173410.17	173410.17
	Add for cartage etc. @ 1%				1734.10
	Total A				175144.27
	ITC @6% of A				10508.66
	Total				185652.93
	Add 12% GST (MF= 0.1405)				**26084.24**
	TOTAL				**211737.16**

	Overhead and Profits @ 15%				**31760.57**
	Total				**243497.74**
	SAY				**243498.00**

16.26.8 Double skin AHU Units of 6 row cooling coil of 15300 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3085	Basic Price		1	196560.00	196560.00
	Add for cartage etc. @ 1%				1965.60
	Total A				198525.60
	ITC @6% of A				11911.54
	Total				210437.14
	Add 12% GST (MF= 0.1405)				29566.42
	TOTAL				**240003.55**
	Overhead and Profits @ 15%				**36000.53**
	Total				**276004.09**
	SAY				**276004.00**

16.26.9 Double skin AHU Units of 6 row cooling coil of 17000 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3086	Basic Price		1	208006.78	208006.78
	Add for cartage etc. @ 1%				2080.07
	Total A				210086.85
	ITC @6% of A				12605.21
	Total				222692.06
	Add 12% GST (MF= 0.1405)				**31288.23**
	TOTAL				**253980.29**
	Overhead and Profits @ 15%				**38097.04**
	Total				**292077.34**
	SAY				**292077.00**

16.26.10 Double skin AHU Units of 6 row cooling coil of 18700 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3087	Basic Price	1229875.25	229875.25
	Add for cartage etc. @ 1%		2298.75
	Total A		232174.01
	ITC @6% of A		13930.44
	Total		246104.45
	Add 12% GST (MF= 0.1405)		**34577.67**
	TOTAL		**280682.12**
	Overhead and Profits @ 15%		**42102.32**
	Total		**322784.44**
	Say		**322784.00**

16.26.11 Double skin AHU Units of 6 row cooling coil of 20400 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3088	Basic Price		1	246960.00	246960.00
	Add for cartage etc. @ 1%				2469.60
	Total A				249429.60
	ITC @6% of A				14965.78
	Total				264395.38
	Add 12% GST (MF= 0.1405)				**37147.55**
	TOTAL				**301542.93**
	Overhead and Profits @ 15%				**45231.44**
	Total				**346774.37**
	SAY				**346774.00**

16.26.12 Double Skin AHU Units of 6 row cooling coil of 23800 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3142	Basic Price		1	270803.14	270803.14
	Total of materials				270803.14
	Cartage @ 1% of materials				2708.03
	TOTAL				273511.17
	ITC @ 6 % of A				16410.67
	TOTAL				289921.84
	Add 12% GST (MF= 0.1405)				**40734.02**
	TOTAL				**330655.86**
	Add 15 % Over Head & Contractor Profit				**49598.38**
	Cost for 1 Set				**380254.23**
	Say				**380254.00**

16.26.13 Double Skin AHU Units of 6 row cooling coil of 28900 CMH

Detail of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3143	Basic Price	each	1	285987.97	285987.97
	Total of materials				285987.97
	Cartage @ 1% of materials				2859.88
	TOTAL				288847.85
	ITC @ 6 % of A				17330.87
	TOTAL				306178.72
	Add 12% GST (MF= 0.1405)				**43018.11**
	TOTAL				**349196.83**
	Add 15 % Over Head & Contractor Profit				**52379.52**
	Cost for 1 Set				**401576.35**
	Say				

16.26.14 Double Skin AHU Units of 6 row cooling coil of 34000 CMH

Detail of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3144	Basic Price	each	1	316972.37	316972.37
	Total of materials				**316972.37**
	Cartage @ 1% of materials				3169.72
	TOTAL				**320142.10**
	ITC @ 6 % of A				19208.53
	TOTAL				**339350.62**
	Add 12% GST (MF= 0.1405)				**47678.76**
	TOTAL				**387029.38**
	Add 15 % Over Head & Contractor Profit				**58054.41**
	Cost for 1 Set				**445083.79**
	Say				**445084.00**

16.26.15 Double Skin AHU Units of 6 row cooling coil of 39100 CMH

Detail of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3145	Basic Price	1439515.00	439515.00
	Total of materials		439515.00
	Cartage @ 1% of materials		4395.15
	TOTAL		443910.15
	ITC @ 6 % of A		26634.61
	TOTAL		470544.76
	Add 12% GST (MF= 0.1405)		**66111.54**
	TOTAL		**536656.30**
	Add 15 % Over Head & Contractor Profit		**80498.44**
	Cost for 1 Set		**617154.74**
	Say		**617155.00**

16.27 Supply, Installation, Testing and commissioning of factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators,cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 4 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor of efficiency class IE3 suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply suitably designed for variable frequency drive applications, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.)and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.

16.27.1 Double skin AHU Units of 4 row cooling coil of 4300 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3089	Basic Price		1	66278.14	66278.14
	Add for cartage etc. @ 1%				662.78
	Total A				66940.92
	ITC @6% of A				4016.46
	Total				70957.37
	Add 12% GST (MF= 0.1405)				9969.51
	TOTAL				**80926.88**
	Overhead and Profits @ 15%				**12139.03**
	Total				**93065.92**
	OR SAY Rs.				**93066.00**

16.27.2 Double skin AHU Units of 4 row cooling coil of 5100 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3090	Basic Price		1	77794.32	77794.32
	Add for cartage etc. @ 1%				777.94
	Total A				78572.27
	ITC @6% of A				4714.34
	Total				83286.60
	Add 12% GST (MF= 0.1405)				11701.77
	TOTAL				94988.37
	Overhead and Profits @ 15%				14248.26
	Total				109236.62
	OR SAY Rs.				109237.00

16.27.3 Double skin AHU Units of 4 row cooling coil of 8500 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3091	**Basic Price**		1	86804.24	86804.24
	Add for cartage etc. @ 1%				868.04
	Total A				87672.28
	ITC @6% of A				5260.34
	Total				92932.62
	Add 12% GST (MF= 0.1405)				13057.03
	TOTAL				105989.65
	Overhead and Profits @ 15%				15898.45
	Total				121888.10
	OR SAY Rs.				121888.00

16.27.4 Double skin AHU Units of 4 row cooling coil of 8500 CMH

Detail of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				

3092	Basic Price	1 107408.90	107408.90
	Add for cartage etc. @ 1%		1074.09
	Total A		108482.99
	ITC @6% of A		6508.98
	Total		114991.97
	Add 12% GST (MF= 0.1405)		**16156.37**
	TOTAL		**131148.34**
	Overhead and Profits @ 15%		**19672.25**
	Total		**150820.59**
	OR SAY Rs.		**150821.00**

16.27.5 Double skin AHU Units of 4 row cooling coil of 10200 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3093	Basic Price		1	125658.31	125658.31
	Add for cartage etc. @ 1%				1256.58
	Total A				126914.89
	ITC @6% of A				7614.89
	Total				134529.78
	Add 12% GST (MF= 0.1405)				**18901.43**
	TOTAL				**153431.22**
	Overhead and Profits @ 15%				**23014.68**
	Total				**176445.90**
	OR SAY Rs.				**176446.00**

16.27.6 Double skin AHU Units of 4 row cooling coil of 11900 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3094	Basic Price		1	140665.42	140665.42
	Add for cartage etc. @ 1%				1406.65
	Total A				142072.08
	ITC @6% of A				8524.32
	Total				150596.40
	Add 12% GST (MF= 0.1405)				21158.79
	TOTAL				**171755.20**
	Overhead and Profits @ 15%				**25763.28**
	Total				**197518.48**
	OR SAY Rs.				**197518.00**

16.27.7 Double skin AHU Units of 4 row cooling coil of 13600 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3095	Basic Price		1	152054.24	152054.24
	Add for cartage etc. @ 1%				1520.54
	Total A				153574.78
	ITC @6% of A				9214.49
	Total				162789.27
	Add 12% GST (MF= 0.1405)				**22871.89**
	TOTAL				**185661.16**
	Overhead and Profits @ 15%				**27849.17**
	Total				**213510.33**
	OR SAY Rs.				**213510.00**

16.27.8 Double skin AHU Units of 4 row cooling coil of 15300 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3096	Basic Price		1	172812.20	172812.20
	Add for cartage etc. @ 1%				1728.12
	Total A				174540.33
	ITC @6% of A				10472.42
	Total				185012.74
	Add 12% GST (MF= 0.1405)				**25994.29**
	TOTAL				**211007.04**
	Overhead and Profits @ 15%				**31651.06**
	Total				**242658.09**
	OR SAY Rs.				**242658.00**

16.27.9 Double skin AHU Units of 4 row cooling coil of 17000 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3097	Basic Price		1	181867.12	181867.12
	Add for cartage etc. @ 1%				1818.67
	Total A				183685.79
	ITC @6% of A				11021.15
	Total				194706.94
	Add 12% GST (MF= 0.1405)				**27356.32**
	TOTAL				**222063.26**
	Overhead and Profits @ 15%				**33309.49**

16.27.14 Double skin AHU Units of 4 row cooling coil of 18700 CMH

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3098	Basic Price		1	198991.53	**198991.53**
	Add for cartage etc. @ 1%				**1989.92**
	Total A				**200981.44**
	ITC @6% of A				**12058.89**
	Total				**213040.33**
	Add 12% GST (MF= 0.1405)				**29932.17**
	TOTAL				**242972.49**
	Overhead and Profits @ 15%				**36445.87**
	Total				**279418.37**
	SAY				**279418.00**

16.27.15 Double Skin AHU Units of 4 row cooling coil of 39100 CMH

Detail of cost for 1 Set

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
	A(Materials)				
3165	Basic Price		1	332463.81	332463.81
	Total of materials				332463.81
	Cartage @ 1% of materials				3324.64
	TOTAL				335788.45
	ITC @ 6 % of A				20147.31
	TOTAL				355935.76
	Add 12% GST (MF= 0.1405)				**50008.97**
	TOTAL				**405944.73**
	Add 15 % Over Head & Contractor Profit				**60891.71**
	Cost for 1 Set				**466836.44**
	Say				**466836.00**

CHAPTER 17- FIRE DETECTION AND ALARM SYSTEM

17.1 FIRE DETECTION AND ALARM SYSTEM (CONVENTIONAL)

17.1.1 Supplying, installation, testing & commissioning of heat detector operating at 54ºC/57ºC with rate of rise cum fixed tempreature (dual thermistor) type with mounting base complete with all connection etc. as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4101	Heat Detectors of electronic Rate of Rise cum fixed tempreature (Dual Thermistor) type with mounting base complete with all connection etc.	each	1.00	750.00	750.00
	Cartage @ 1 % of A				7.50
	TOTAL				**757.50**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**816.26**
	Add 12% GST (MF= 0.1405)				**114.68**
	TOTAL				**930.94**
C	Overhead & Profit @ 15%				**139.64**
	TOTAL				1070.59
	Rate of Each				**1070.59**
	Say				**1071.00**

17.1.2 Supplying, installation, testing & commissioning of smoke detector with builtin LED and mounting base complete with all connections etc. as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4102	Heat Detectors of electronic Rate of Rise cum fixed tempreature (Dual Thermistor) type with mounting base complete with all connection etc.	each	1.00	812.50	812.50
	Cartage @ 1 % of A				8.13
	TOTAL				**820.63**

B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**879.39**
	Add 12% GST (MF= 0.1405)				**123.55**
	TOTAL				**1002.94**
C	Overhead & Profit @ 15%				150.44
	TOTAL				**1153.38**
	Rate of Each				**1153.38**
	Say				**1153.00**

17.1.3 Supplying, installation, testing & commissioning of manual call boxes of MS construction in surface/recess with stainless steel chain & hammer assembly complete with glass and push button etc. as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4103	Manual call boxes of MS Type in surface/ recess with stainless steel chain & hammer assembly complete with glass and push button etc.	each	1.00	300.00	300.00
	Cartage @ 1 % of A				3.00
	TOTAL				**303.00**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**361.76**
	Add 12% GST (MF= 0.1405)				**50.83**
	TOTAL				**412.59**
C	Overhead & Profit @ 15%				61.89
	TOTAL				**474.48**
	Rate of Each				**474.48**
	Say				**474.00**

17.1.4 Supplying, installation, testing & commissioning of manual call box of ABS type in surface/recess with stainless steel chain & hammer assembly complete with glass and push button etc. as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4101	Manual call boxes of ABS Type in surface/ recess with stainless steel chain & hammer assembly complete with glass and push button etc.	each	1.00	250.00	250.00
	Cartage @ 1 % of A				2.50
	TOTAL				**252.50**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**311.26**
	Add 12% GST (MF= 0.1405)				**43.73**
	TOTAL				**354.99**
C	Overhead & Profit @ 15%				53.25
	TOTAL				**408.24**
	Rate of Each				**408.24**
	Say				**408.00**

17.1.5 Supplying, installation, testing & commissioning response indicator on surface/recess MS box having two LEDs metallic cover complete with all connections etc. as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4105	Response indicator on surface/recessed MS Box having two LED's metallic covers complete with all connections etc.	each	1.00	90.00	90.00
	Cartage @ 1 % of A				0.90
	TOTAL				**90.90**

B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**149.66**
	Add 12% GST (MF= 0.1405)				**21.03**
	TOTAL				**170.69**
C	Overhead & Profit @ 15%				25.60
	TOTAL				**196.29**
	Rate of Each				**196.29**
	Say				**196.00**

17.1.6 Supplying, installation, testing & commissioning fire alarm sounder with facility to make announcement, mounted in M.S. box (16 SWG) with hinged cover plate & suitable for operation with amplifier i/c line matching transformer etc. complete as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4108	Fire alarm sounders (electronic) with facility to make announcement, mounted in M.S. Box (16 SWG) with hinged cover plate & suitable for operation with amplifier i/c line matching ttransformer etc.	each	1.00	362.50	362.50
	Cartage @ 1 % of A				3.63
	TOTAL				**366.13**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**424.89**
	Add 12% GST (MF= 0.1405)				**59.70**
	TOTAL				**484.58**
C	Overhead & Profit @ 15%				72.69
	TOTAL				**557.27**
	Rate of Each				**557.27**
	Say				**557.00**

17.1.7 Supplying, installation, testing & commissioning fire alarm sounder with facility to make announcement, mounted in A.B.S. box with hinged cover plate & suitable for operation with amplifier i/c line matching transformer etc. complete as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4107	Fire alarm sounders (electronic) with facility to make announcement, mounted in A.B.S. Box with hinged cover plate & suitable for operation with amplifier i/c line matching ttransformer etc.	each	1.00	312.50	312.50
	Cartage @ 1 % of A				3.13
	TOTAL				**315.63**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**374.39**
	Add 12% GST (MF= 0.1405)				**52.60**
	TOTAL				**426.99**
C	Overhead & Profit @ 15%				64.05
	TOTAL				**491.03**
	Rate of Each				**491.03**
	Say				**491.00**

17.1.8 Supplying, installation, testing & commissioning talk back slave station in surface/recess suitable for operation on simplex mode complete with P.T.T. knob & speaker/microphone enclosed in a M.S.(16 SWG)/ ABS box with break glass in front etc. complete as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4108	Response indicator on surface/recessed MS Box having two LED's metallic covers complete with all connections etc.	each	1.00	625.00	625.00
	Cartage @ 1 % of A				6.25
	TOTAL				**631.25**

B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**690.01**
	Add 12% GST (MF= 0.1405)				**96.95**
	TOTAL				**786.96**
C	Overhead & Profit @ 15%				118.04
	TOTAL				**905.00**
	Rate of Each				**905.00**
	Say				**905.00**

17.1.9 Supplying, installation, testing & commissioning fire alarm sounder with facility to make announcement, mounted in A.B.S. box with hinged cover plate & suitable for operation with amplifier i/c line matching transformer etc. complete as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4107	Fire alarm sounders (electronic) with facility to make announcement, mounted in A.B.S. Box with hinged cover plate & suitable for operation with amplifier i/c line matching ttransformer etc.	each	1.00	4875.00	4875.00
	Cartage @ 1 % of A				48.75
	TOTAL				**4923.75**
B	**LABOUR**				
1019	Electrician	day	1.25	806.00	1007.50
1007	Khallasi	day	1.25	663.00	828.75
	TOTAL				**1836.25**
	Total of A+B Rs.				**6760.00**
	Add 12% GST (MF= 0.1405)				**949.78**
	TOTAL				**7709.78**
C	Overhead & Profit @ 15%				1156.47
	TOTAL				**8866.25**
	Rate of Each				**8866.25**
	Say				**8866.00**

17.1.9.2 6 Zone

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4110	6 Zone fire alarm control panel as per IS: 2189 with backlit LCD Display	each	1.00	7375.00	7375.00
	Cartage @ 1 % of A				73.75
	TOTAL				**7448.75**
B	**LABOUR**				
1019	Electrician	day	1.25	806.00	1007.50
1007	Khallasi	day	1.25	663.00	828.75
	TOTAL				**1836.25**
	Total of A+B Rs.				**9285.00**
	Add 12% GST (MF= 0.1405)				**1304.54**
	TOTAL				**10589.54**
C	Overhead & Profit @ 15%				1588.43
	TOTAL				**12177.97**
	Rate of Each				**12177.97**
	Say				**12178.00**

17.1.9.3 10 Zone

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4111	10 Zone fire alarm control panel as per IS: 2189 with backlit LCD Display	each	1.00	9750.00	9750.00
	Cartage @ 1 % of A				97.50
	TOTAL				**9847.50**
B	**LABOUR**				
1019	Electrician	day	1.75	806.00	1410.50
1007	Khallasi	day	1.75	663.00	1160.25
	TOTAL				**2570.75**
	Total of A+B Rs.				**12418.25**
	Add 12% GST (MF= 0.1405)				**1744.76**
	TOTAL				**14163.01**
C	Overhead & Profit @ 15%				2124.45
	TOTAL				**16287.47**
	Rate of Each				**16287.47**
	Say				**16287.00**

17.1.10 Supplying, installation, testing & commissioning fire alarm sounder with facility to make announcement, mounted in A.B.S. box with hinged cover plate & suitable for operation with amplifier i/c line matching transformer etc. complete as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4112	10 zone control panel for fire alarm system with following:-	each	1.00	47177.00	47177.00
	TOTAL				**47177.00**
	Cartage @ 1 % of A				471.77
	TOTAL				**47648.77**
B	**LABOUR**				
1020	Electronic Technician	day	2	806.00	1612.00
1019	Electrician	day	3	806.00	2418.00
1007	Khallasi	day	3	663.00	1989.00
	TOTAL				**6019.00**
	Total of A+B Rs.				**53667.77**
	Add 12% GST (MF= 0.1405)				**7540.32**
	TOTAL				**61208.09**
C	Overhead & Profit @ 15%				**9181.21**
	TOTAL				**70389.31**
	Rate of Each				**70389.31**
	Say				**70389.00**

17.1.11 Supplying, installation, testing & commissioning of main control and indicating panel made out of 16 SWG MS sheet to accommodate the following items duly powder coated in approved colour with louvers for ventilation, locking arrangement, audio and visual indication for fire alarm and public address system, monitoring system including connections, interconnections etc complete as required.

COST FOR 1 POINT

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4113	6 zone control panel for fire alarm system with following:-	each	1.00	32272.00	32272.00
	TOTAL				**32272.00**
	Cartage @ 1 % of A				322.72
	TOTAL				**32594.72**

B	**LABOUR**				
1020	Electronic Technician	day	2	806.00	1612.00
1019	Electrician	day	2	806.00	1612.00
1007	Khallasi	day	2	663.00	1326.00
	TOTAL				**4550.00**
	Total of A+B Rs.				**37144.72**
	Add 12% GST (MF= 0.1405)				**5218.83**
	TOTAL				**42363.55**
C	Overhead & Profit @ 15%				6354.53
	TOTAL				**48718.09**
	Rate of Each				**48718.09**
	Say				**48718.00**

17.2 INTELLIGENT FIRE ALARM SYSTEM

17.2.1 Supplying, installation, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 ± 5 % V, 50 hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories . The panel shall be compatible for IBMS system with open protocol BACnet/ Modbus over IP complete as per specifications.

17.2.1.1 Ten Loop Panel.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4114	10 Loop Control Panel having CPU with 640 character display including backlite LCD display qwerty programming and operating manuals, supporting 1 to 10 signaling line circuits (upto 5 extendable cards & supporting 103 network modes) complete as required.	each	1.00	338000.00	338000.00
	TOTAL				**338000.00**

	Cartage @1% of A				3380.00
	TOTAL				**341380.00**
B	**LABOUR**				
1017	Engineer	day	2.00	1500.00	3000.00
1019	Electrician	day	2.00	806.00	1612.00
1007	Khallasi	day	2.00	663.00	1326.00
	TOTAL				**5938.00**
	Total of A+B Rs.				**347318.00**
	Add 12% GST (MF= 0.1405)				**48798.18**
	TOTAL				**396116.18**
C	Overhead & Profit @ 15%				59417.43
	TOTAL				**455533.61**
	Rate of Each				**455533.61**
	Say				**455534.00**

17.2.1.2 Two Loop Panel.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4115	Two Loop Control Panel having CPU with 640 character display including backlite LCD display qwerty programming and operating manuals, supporting 1 to 10 signaling line circuits (upto 5 extendable cards & supporting 103 network modes) complete as required.	each	1.00	177650.00	177650.00
	TOTAL				**177650.00**
	Cartage @1% of A				1776.50
	TOTAL				**179426.50**
B	**LABOUR**				
1017	Engineer	day	1.00	1500.00	1500.00
1019	Electrician	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**2969.00**
	Total of A+B Rs.				**182395.50**
	Add 12% GST (MF= 0.1405)				**25626.57**
	TOTAL				**208022.07**
C	Overhead & Profit @ 15%				31203.31
	TOTAL				**239225.38**
	Rate of Each				**239225.38**
	Say				**239225.00**

17.2.2 Supplying, installation, testing & commissioning fire alarm sounder with facility to make announcement, mounted in A.B.S. box with hinged cover plate & suitable for operation with amplifier i/c line matching transformer etc. complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4116	Central graphical fire alarm management system i/c software	each	1.00	147250.00	147250.00
	TOTAL				**147250.00**
	Cartage @ 1 % of A				1472.50
	TOTAL				**148722.50**
B	**LABOUR**				
1022	Software Engineer	day	1	2100.00	2100.00
1019	Electrician	day	1	806.00	806.00
1007	Khallasi	day	2	663.00	1326.00
	TOTAL				**4232.00**
	Total of A+B Rs.				**152954.50**
	Add 12% GST (MF= 0.1405)				**21490.11**
	TOTAL				**174444.61**
C	Overhead & Profit @ 15%				26166.69
	TOTAL				**200611.30**
	Rate of Each				**200611.30**
	Say				**200611.00**

17.2.3 Supplying, installation, testing & commissioning of repeater panel wih 320 character/ Touch screen LCD display with inbuilt reset, acknowledge and silence switches complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4117	320 character LCD display repeater panel.	each	1.00	81000.00	81000.00
	TOTAL				**81000.00**
	Cartage @ 1 % of A				810.00
	TOTAL				**81810.00**
B	**LABOUR**				
1022	Software Engineer	day	0.25	2100.00	525.00
1019	Electrician	day	0.25	806.00	201.50
1007	Khallasi	day	0.50	663.00	331.50

	TOTAL	**1058.00**
	Total of A+B Rs.	**82868.00**
	Add 12% GST (MF= 0.1405)	**11642.95**
	TOTAL	**94510.95**
C	Overhead & Profit @ 15%	14176.64
	TOTAL	**108687.60**
	Rate of Each	**108687.60**
	Say	**108688.00**

17.2.4 Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4118	Intelligent photothermal detector	each	1.00	2099.50	2099.50
	TOTAL				**2099.50**
	Cartage @ 1 % of A				21.00
	TOTAL				**2120.50**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**2179.26**
	Add 12% GST (MF= 0.1405)				**306.192**
	TOTAL				**485.44**
C	Overhead & Profit @ 15%				372.82
	TOTAL				**2858.26**
	Rate of Each				**2858.26**
	Say				**2858.00**

17.2.5 Supplying, installation, testing & commissioning of response indicator on surface/recessed MS Box having two LED, metallic cover complete with all connections etc as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				

4119	Response indicator on surface/recessed MS Box having two LED's metallic covers complete with all connections etc.	each	1.00	150.00	150.00
	TOTAL				**150.00**
	Cartage @ 1 % of A				1.50
	TOTAL				**151.50**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**210.26**
	Add 12% GST (MF= 0.1405)				**29.54**
	TOTAL				**239.80**
C	Overhead & Profit @ 15%				35.97
	TOTAL				**275.77**
	Rate of Each				**275.77**
	Say				**276.00**

17.2.6 Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4120	Intelligent addressable programmable sounder.	each	1.00	1824.00	1824.00
	TOTAL				**1824.00**
	Cartage @ 1 % of A				18.24
	TOTAL				**1842.24**
B	**LABOUR**				
1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**2021.00**
	Add 12% GST (MF= 0.1405)				**283.95**
	TOTAL				**2304.95**
C	Overhead & Profit @ 15%				345.74
	TOTAL				**2650.69**
	Rate of Each				**2650.69**
	Say				**2651.00**

17.2.7 Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4121	Cost of fault isolator complete with base	each	1.00	2291.40	2291.40
	TOTAL				**2291.40**
	Cartage @ 1 % of A				22.91
	TOTAL				**2314.31**
B	**LABOUR**				
1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**2493.07**
	Add 12% GST (MF= 0.1405)				**350.28**
	TOTAL				**2843.35**
C	Overhead & Profit @ 15%				426.50
	TOTAL				**3269.85**
	Rate of Each				**3269.85**
	Say				**3270.00**

17.2.8 Supplying, installation, testing & commissioning of intelligent aspiration detector for area coverage of minimum 5000 sq. ft. complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4122	Cost of intelligent aspiration detector	each	1.00	220000.00	220000.00
	TOTAL				**220000.00**
	Cartage @ 1 % of A				2200.00
	TOTAL				**222200.00**
B	**LABOUR**				
1017	Engineer	day	1.00	1500.00	1500.00
1019	Electrician	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	TOTAL				**2969.00**
	Total of A+B Rs.				**225169.00**

	Add 12% GST (MF= 0.1405)	**31636.24**
	TOTAL	**256805.24**
C	Overhead & Profit @ 15%	38520.79
	TOTAL	**295326.03**
	Rate of Each	**295326.03**
	Say	**295326.00**

17.2.9 Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed tempreature thermistor complete with base as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4123	Cost of intelligent addressable thermal detector	each	1.00	1881.00	1881.00
					1881.00
	TOTAL				18.81
	Cartage @ 1 % of A				**1899.81**
	TOTAL				
B	**LABOUR**				
1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**2078.57**
	Add 12% GST (MF= 0.1405)				**292.04**
	TOTAL				**2370.61**
C	Overhead & Profit @ 15%				355.59
	TOTAL				**2726.20**
	Rate of Each				**2726.20**
	Say				**2726.00**

17.2.10 Supplying, installation, testing & commissioning of addressable fire control module complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4124	Cost of intelligent addressable thermal detector	each	1.00	2090.00	2090.00
	TOTAL				**2090.00**

	Cartage @ 1 % of A				20.90
	TOTAL				**2110.90**
B	**LABOUR**				
1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**2289.66**
	Add 12% GST (MF= 0.1405)				**321.70**
	TOTAL				**2611.36**
C	Overhead & Profit @ 15%				391.70
	TOTAL				**3003.06**
	Rate of Each				**3003.06**
	Say				**3003.00**

17.2.11 Supplying, installation, testing & commissioning of addressable phone control module complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4125	Cost of addressable fire phone control module	each	1.00	2289.50	2289.50
	TOTAL				**2289.50**
	Cartage @ 1 % of A				22.90
	TOTAL				**2312.40**
B	**LABOUR**				
1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**2491.16**
	Add 12% GST (MF= 0.1405)				**350.01**
	TOTAL				**2841.16**
C	Overhead & Profit @ 15%				**426.17**
	TOTAL				**3267.34**
	Rate of Each				**3267.34**
	Say				**3267.00**

17.2.12 Supplying, installation, testing & commissioning of addressable beam detector with short circuit isolator (inbuilt or seperate) complete with emitter and receiver including connections with remote test features etc complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4126	Cost of addressable beam detector with remote test features	each	1.00	55100.00	55100.00
	TOTAL				**55100.00**
	Cartage @ 1 % of A				551.00
	TOTAL				**55651.00**
B	**LABOUR**				
1017	Engineer	day	0.05	1500.00	750.00
1019	Electrician	day	0.05	806.00	403.24
1007	Khallasi	day	0.05	663.00	331.50
	TOTAL				**1484.50**
	Total of A+B Rs.				**57135.50**
	Add 12% GST (MF= 0.1405)				**8027.54**
	TOTAL				**65163.04**
C	Overhead & Profit @ 15%				9774.46
	TOTAL				**74937.49**
	Rate of Each				**74937.49**
	Say				**74937.00**

17.2.13 Supplying, installation, testing & commissioning of intelligent addressable duct detector including suitable Photo detector complete with base as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4127	Cost of intelligent duct detector unit with photothermal detector complete with base	each	1.00	5721.85	5721.85
	TOTAL				**5721.85**
	Cartage @ 1 % of A				57.22
	TOTAL				**5779.07**
B	**LABOUR**				
1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52

	TOTAL	**178.76**
	Total of A+B Rs.	**5957.83**
	Add 12% GST (MF= 0.1405)	**837.07**
	TOTAL	**6794.90**
C	Overhead & Profit @ 15%	1019.24
	TOTAL	**7814.14**
	Rate of Each	**7814.14**
	Say	**7814.00**

17.2.14 Supplying, installation, testing & commissioning of addressable manual call point complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4128	Cost of manual call point	each	1.00	2745.50	2745.50
	TOTAL				**2745.50**
	Cartage @ 1 % of A				27.46
	TOTAL				**2772.96**
B	**LABOUR**				
1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**2951.72**
	Add 12% GST (MF= 0.1405)				**414.72**
	TOTAL				**3366.43**
C	Overhead & Profit @ 15%				504.96
	TOTAL				**3871.40**
	Rate of Each				**3871.40**
	Say				**3871.00**

17.2.15 Supplying, installation, testing & commissioning of addressable horn cum strobe complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4129	Cost of Horn cum strobe	each	1.00	2470.00	2470.00
	TOTAL				**2470.00**

	Cartage @ 1 % of A				24.70
	TOTAL				**2772.96**
B	**LABOUR**				
1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**2673.46**
	Add 12% GST (MF= 0.1405)				**375.62**
	TOTAL				**3049.08**
C	Overhead & Profit @ 15%				457.36
	TOTAL				**3506.44**
	Rate of Each				**3506.44**
	Say				**3506.00**

17.2.16 Supplying, installation, testing & commissioning of addressable strobe complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4130	Cost of Strobe	each	1.00	2364.55	2364.55
	TOTAL				**2364.55**
	Cartage @ 1 % of A				23.65
	TOTAL				**2388.20**
B	**LABOUR**				
1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**2566.96**
	Add 12% GST (MF= 0.1405)				**360.66**
	TOTAL				**2927.61**
C	Overhead & Profit @ 15%				439.14
	TOTAL				**3366.75**
	Rate of Each				**3366.75**
	Say				**3367.00**

17.2.17 Supplying, installation, testing & commissioning of fire fighter telephone handset complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4131	Cost of fire fighter telephone handset	each	1.00	4275.00	4275.00
	Cartage @ 1 % of A				42.75
	TOTAL				**4317.75**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**4376.51**
	Add 12% GST (MF= 0.1405)				**614.90**
	TOTAL				**4991.41**
C	Overhead & Profit @ 15%				748.71
	TOTAL				**5740.12**
	Rate of Each				**5740.12**
	Say				**5740.00**

17.2.18 Supplying, installation, testing & commissioning of intelligent interface unit BACnet/ Modbus protocol i.e. supplying communication links between building management system and fire alarm control panel complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4132	Intelligent interface unit BACnet protocol for communication link between building management system and fire alarm control panel.	each	1.00	141550.00	141550.00
	Cartage @ 1 % of A				1415.50
	TOTAL				**142965.50**
B	**LABOUR**				
1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**143144.26**
	Add 12% GST (MF= 0.1405)				**20111.77**

	TOTAL	**163256.03**
C	Overhead & Profit @ 15%	**24488.40**
	TOTAL	**187744.43**
	Rate of Each	**187744.43**
	Say	**187744.00**

17.2.19 Supplying, installation, testing & commissioning of fire fighter phone jack complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4133	Cost of fire fighter phone jack	each	1.00	1149.50	1149.50
	Cartage @ 1 % of A				11.50
	TOTAL				**1161.00**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**1219.76**
	Add 12% GST (MF= 0.1405)				**171.38**
	TOTAL				**1391.13**
C	Overhead & Profit @ 15%				208.67
	TOTAL				**1599.80**
	Rate of Each				**1599.80**
	Say				**1600.00**

17.3 PUBLIC ADDRESS SYSTEM

17.3.1 Supplying, installation, testing & commissioning of 6 zone, voice alarm controller with USB, MP3 player (including 6 zone button paging station) with seamless integration facility with main fire alarm panel for voice evacuation complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4134	Cost of 6 Zone, voice alarm controller with USB	each	1.00	95250.00	95250.00
	Cartage @ 1 % of A				952.50
	TOTAL				**96202.50**
B	**LABOUR**				

1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**96381.26**
	Add 12% GST (MF= 0.1405)				**13541.57**
	TOTAL				**109922.83**
C	Overhead & Profit @ 15%				16488.42
	TOTAL				**126411.25**
	Rate of Each				**126411.25**
	Say				**126411.00**

17.3.2 Supplying, installation, testing & commissioning of 1.5/3/6W ceiling speaker complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4135	Cost of 1.5/3/6W Ceiling Speaker	each	1.00	670.00	670.00
	Cartage @ 1 % of A				6.70
	TOTAL				**676.70**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**735.46**
	Add 12% GST (MF= 0.1405)				**103.33**
	TOTAL				**838.79**
C	Overhead & Profit @ 15%				125.82
	TOTAL				**964.61**
	Rate of Each				**964.61**
	Say				**965.00**

17.3.3 Supplying, installation, testing & commissioning of 1.5/3/6W metal box ceiling/wall speakers complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4136	Cost of 1.5/3/6W Metal Ceiling Speakers	each	1.00	1295.00	1295.00
	Cartage @ 1 % of A				12.95
	TOTAL				**1307.95**

B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**1366.71**
	Add 12% GST (MF= 0.1405)				**192.02**
	TOTAL				**1558.73**
C	Overhead & Profit @ 15%				233.81
	TOTAL				**1792.54**
	Rate of Each				**1792.54**
	Say				**1793.00**

17.3.4 Supplying, installation, testing & commissioning of ceiling/wall mounted loud speaker, 3/1.5 Watt in ABS enclosure complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4137	Cost of wall mounted loud speaker,	each	1.00	1775.00	1775.00
	3/1.5 Watt in ABS enclosure				17.75
	TOTAL				**1792.75**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**1851.51**
	Add 12% GST (MF= 0.1405)				**260.14**
	TOTAL				**2111.65**
C	Overhead & Profit @ 15%				316.75
	TOTAL				**2428.39**
	Rate of Each				**2428.39**
	Say				**2428.00**

17.3.5 Supplying, installation, testing & commissioning of 6 inches dia, 2 watts, 70/100 volts ceiling speaker complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4138	Cost of 2 Watt, 70 Volts Ceiling Speaker	each	1.00	1330.00	1330.00
	Cartage @ 1 % of A				13.30
	TOTAL				**1343.30**

1017	Engineer	day	0.08	1500.00	120.00
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**178.76**
	Total of A+B Rs.				**1402.06**
	Add 12% GST (MF= 0.1405)				**196.99**
	TOTAL				**1599.05**
C	Overhead & Profit @ 15%				239.86
	TOTAL				**1838.91**
	Rate of Each				**1838.91**
	Say				**1839.00**

17.3.6 Supplying, installation, testing & commissioning of digital audio amplifier 50 Watt, 25V rms operating at 240 volt AC supply complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4139	Cost of Digital audio amplifier 50 Watt 25VRMS operating of 240 Volt AC Supply.	each	1.00	73000.00	73000.00
	Cartage @ 1 % of A				730.00
	TOTAL				**73730.00**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**73788.76**
	Add 12% GST (MF= 0.1405)				**10367.32**
	TOTAL				**84156.08**
C	Overhead & Profit @ 15%				12623.41
	TOTAL				**96779.49**
	Rate of Each				**96779.49**
	Say				**96779.00**

17.3.7 Supplying, installation, testing & commissioning of digital audio amplifier 75 Watt, 25V rms operating at 240 Volt AC Supply complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4140	Cost of Digital audio amplifier 75 Watt 25 VRMS operating of 240 Volt AC Supply.	each	1.00	110000.00	110000.00
	Cartage @ 1 % of A				1100.00

	TOTAL				**111100.00**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**111158.76**
	Add 12% GST (MF= 0.1405)				**15617.81**
	TOTAL				**126776.57**
C	Overhead & Profit @ 15%				19016.48
	TOTAL				**145793.05**
	Rate of Each				**145793.05**
	Say				**145793.00**

17.3.8 Supplying, installation, testing & commissioning of exit point directional sound speaker with voice and integral audio amplifier with selectable sound pulse patterns complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4141	Cost of Exit point directional sound speaker with voice and integral audio amplifier with selectable sound pulse patterns	each	1.00	7600.00	7600.00
	Cartage @1% of A				76.00
	TOTAL				**7676.00**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**7734.76**
	Add 12% GST (MF= 0.1405)				**1086.73**
	TOTAL				**8821.49**
C	Overhead & Profit @ 15%				1323.22
	TOTAL				**10144.72**
	Rate of Each				**10144.72**
	Say				**10145.00**

17.3.9 Supplying, installation, testing & commissioning of Voice command keypad 6 zone, with microphone assembly complete as required.

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)

A	**MATERIALS**				
4142	Cost of Digital voice command keypad	each	1.00	37082.50	37082.50
4143	Micro phone assembly	each	1.00	24576.50	24576.50
	TOTAL				**61659.00**
	Cartage @1% of A				616.59
	TOTAL				**62275.59**
B	**LABOUR**				
1019	Electrician	day	0.04	806.00	32.24
1007	Khallasi	day	0.04	663.00	26.52
	TOTAL				**58.76**
	Total of A+B Rs.				**62334.35**
	Add 12% GST (MF= 0.1405)				**8757.98**
	TOTAL				**71092.33**
C	Overhead & Profit @ 15%				10663.85
	TOTAL				**81756.18**
	Rate of Each				**81756.18**
	Say				**81756.00**

17.4 ASPIRATION DETECTOR ACCESSORIES

17.4.1 Supply, installation, testing and commissioning of 25 mm Outer dia CPVC PIPE with end caps including making air sampling opening of appropriate dia on appropriate interval and all accessories as required,(rate for area protected in sqm).

Details of cost for one each

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4143	Cost of 25 mm Outer dia PVC/ABS Pipe with end caps including making air sampling openring of appropriate dia on appropriate interval.	Mtr.	80.00	78.00	6240.00
	Fittings & accessories and wastage etc @ 30% of A				1872.000
	Cement sand and grit etc.	LS	5.33	1.73	9.22
	TOTAL				**8121.22**
B	**LABOUR**				
1004	Fitter, Grade 1	day	2.64	806.00	2127.84
1005	Fitter, Grade 2	day	7.84	734.00	5754.56
1012	Beldar/ coolie	day	5.28	663.00	3500.64
	TOTAL				**11383.04**
	Total of A+B Rs.				**19504.26**
	Water charges @1%				195.04

	Water charges @1%	195.04
	TOTAL	**19699.30**
	Add 12% GST (MF= 0.1405)	**2767.75**
	TOTAL	**22467.06**
C	Overhead & Profit @ 15%	**3370.06**
	TOTAL	**25837.11**
	464.52 sqm Cost	**25837.11**
	Per sqm Cost	**55.62**
	Say	**56.00**

17.5 CABLING & WIRING

17.5.1 Supplying & laying of 2x1.5 sqmm fire survival armoured cable, 600/1000V rated with annealed copper conductor having glass mica fire barrier tape covered by an extruded layer of Cross Linkable Ethylene Propylene Rubber (EPR) insulation and LSZH inner bedding, steel wire armouring & LSZH outer sheath complete as required.

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4144	Cost of Fire Survival armoured cable,Fibre glass tape wrapped, ZH inner, outer sheath 2x1.5 Sq. mm cable.	Mtr.	50.00	196.20	9810.00
2881	GI saddlesl	each	226.00	1.80	406.80
2854	ron screws 45mm x 6 mm	each	452.00	1.80	813.60
2857	PVC fastener 40 mm long	each	452.00	0.90	406.80
2935	Cement, sand etc.	L.S.	2.00	7.20	14.40
	TOTAL				**11451.60**
	Cartage @1% of A				114.52
	TOTAL				**11566.12**
	Wastage @ 2%				231.32
	TOTAL				**11797.44**
B	**LABOUR**				
1001	Wireman	day	0.75	806.00	604.50
1007	Khallasi	day	1.50	663.00	994.50
1010	Mason, Grade 2	day	0.40	734.00	293.60
	TOTAL				**1892.60**
	Total of A+B Rs.				**13690.04**
	Add 12% GST (MF= 0.1405)				**1923.45**
	TOTAL				**15613.49**
C	Overhead & Profit @ 15%				2342.02
	TOTAL				**17955.51**
	Per Meter Cost				**359.11**
	Say				**359.00**

17.5.2 Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4145	Cost of Fire alarm armoured FRLS cable 2 x 1.5 sqmm	Mtr.	50.00	58.20	2910.00
2881	GI saddlesl	each	226.00	1.80	406.80
2854	ron screws 45mm x 6 mm	each	452.00	1.80	813.60
2857	PVC fastener 40 mm long	each	452.00	0.90	406.80
2935	Cement, sand etc.	L.S.	2.00	7.20	14.40
	TOTAL				**4551.60**
	Cartage @1% of A				45.52
	TOTAL				**4597.12**
	Wastage @ 2%				91.94
	TOTAL				**4689.06**
B	**LABOUR**				
1001	Wireman	day	0.75	806.00	604.50
1007	Khallasi	day	1.50	663.00	994.50
1010	Mason, Grade 2	day	0.40	734.00	293.60
	TOTAL				**1892.60**
	Total of A+B Rs.				**6581.66**
	Add 12% GST (MF= 0.1405)				**924.72**
	TOTAL				**7506.38**
C	Overhead & Profit @ 15%				1125.96
	TOTAL				**8632.34**
	Per Meter Cost				**172.65**
	Say				**173.00**

17.5.2 Supplying and drawing of cable Fire Retardant PVC insulated copper conductor cable in the existing surface / recessed steel conduit of following pairs, cores and size including connections and interconnections etc. as required.

17.5.3.1 Speaker cable Single pair, 2-core, 1.5 sqmm

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4146	Cost of single pair 2-core 48/0.2 mm, speaker cable(wastage 5%)	Mtr.	53.03	24.64	1306.66
	Cartage @1% of A				13.07
	TOTAL				**1319.73**

B	**LABOUR**				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**734.50**
	Total of A+B Rs.				**2054.23**
	Add 12% GST (MF= 0.1405)				**288.62**
	TOTAL				**2342.85**
C	Overhead & Profit @ 15%				351.43
	TOTAL				**2694.27**
	Per Meter Cost				**53.89**
	Say				**54.00**

17.5.3.2 Speaker cable Two pair, 2-core, 1.5 sqmm

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4150	Cost of two pair 2-core 48/0.2 mm for PA System.(wastage 5%)	Mtr.	53.03	49.28	2613.32
	Cartage @1% of A				26.13
	TOTAL				**2639.45**
B	**LABOUR**				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**734.50**
	Total of A+B Rs.				**3373.95**
	Add 12% GST (MF= 0.1405)				**474.04**
	TOTAL				**3847.99**
C	Overhead & Profit @ 15%				577.20
	TOTAL				**4425.19**
	Per Meter Cost				**88.50**
	Say				**89.00**

17.5.3.3 Speaker cable Three pair, 2-core, 1.5 sqmm

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4151	Cost of three pair 2-core 48/0.2 mm Speaker Cable for PA System.(wastage 5%)	Mtr.	53.03	73.92	3919.98
	Cartage @1% of A				39.20
	TOTAL				**3959.18**
B	**LABOUR**				

1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**734.50**
	Total of A+B Rs.				**4693.68**
	Add 12% GST (MF= 0.1405)				**659.46**
	TOTAL				**5353.14**
C	Overhead & Profit @ 15%				802.97
	TOTAL				**6156.11**
	Per Meter Cost				**123.12**
	Say				**123.00**

17.5.3.4 Speaker cable Four pair, 2-core, 1.5 sqmm

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4152	Cost of four pair 2-core 48/0.2 mm Speaker Cable for PA System.(wastage 5%)	Mtr.	53.03	98.56	5226.64
	Cartage @1% of A				52.27
	TOTAL				**5278.91**
B	**LABOUR**				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**734.50**
	Total of A+B Rs.				**6013.41**
	Add 12% GST (MF= 0.1405)				**844.88**
	TOTAL				**6858.29**
C	Overhead & Profit @ 15%				1028.74
	TOTAL				**7887.03**
	Per Meter Cost				**157.74**
	Say				**158.00**

17.5.4 Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.

Details of cost for 50 meters

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4147	Cost of 25 mm dia MS flexible pipe with PVC coating along with all ancillaries & accessories like coupler etc.	Mtr.	50.00	25.00	1250.00
	Cartage @1% of A				12.50
	TOTAL				**1262.50**
	Wastage @ 2%				25.25
	TOTAL				**1287.75**

B	**LABOUR**				
1001	Wireman	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	TOTAL				**734.50**
	Total of A+B Rs.				**2022.25**
	Add 12% GST (MF= 0.1405)				**284.13**
	TOTAL				2306.38
C	Overhead & Profit @ 15%				**345.96**
	TOTAL				**2652.33**
	Per Meter Cost				**53.05**
	Say				**53.00**

CHAPTER 18 - WET RISER & SPRINKLER SYSTEM

18.1 (a) Supplying, installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required :
(b) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.

(c) Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.

(d) M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.

(e) Suitable cement concrete foundation duly plastered with anti vibration pads.

18.1.1 2850 lpm at 88 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4291	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 88 m Head conforming to IS 1520	Each	1.00	331000.00	331000.00
	(b) Cost of 100 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325 i/c				
	(c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads				
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.48	4500.00	2160.00
				Total	**333160.00**
	Cartage @1% of A				3331.60
				Total	**336491.60**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**

	Total of A+B Rs.				**345019.60**
	Add 12% GST (MF= 0.1405)				48475.25
				Total	**393494.85**
C	Overheads & Profit @ 15%				59024.23
	Total				**452519.08**
	Rate of Each				**452519.08**
	Say				**452519.00**

18.1.2 2850 lpm at 70 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4292	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 70 m Head conforming to IS 1520. (b) Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads.	Each	1.00	295000.00	295000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks.	Cum	0.48	4500.00	2160.00
				Total	**297160.00**
	Cartage @1% of A				2971.60
				Total	**300131.60**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**308659.60**
	Add 12% GST (MF= 0.1405)				43366.67
				Total	**352026.27**
C	Overheads & Profit @ 15%				52803.94
	Total				**404830.21**
	Rate of Each				**404830.21**
	Say				**404830.00**

18.1.3 2850 lpm at 56 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4293	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 56 m Head conforming to IS 1520 (b) Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	294000.00	294000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.48	4500.00	2160.00
				Total	**296160.00**
	Cartage @1% of A				2961.60
				Total	**299121.60**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**307649.60**
	Add 12% GST (MF= 0.1405)				43224.77
				Total	**350874.37**
C	Overheads & Profit @ 15%				52631.16
	Total				**403505.52**
	Rate of Each				**403505.52**
	Say				**403506.00**

18.1.4 2280 lpm at 88 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4294	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 88 m Head conforming to IS 1520	Each	1.00	294000.00	294000.00

	(b) Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads				
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.48	4500.00	2160.00
				Total	**296160.00**
	Cartage @1% of A				2961.60
				Total	**299121.60**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**307649.60**
	Add 12% GST (MF= 0.1405)				43224.77
				Total	**350874.37**
C	Overheads & Profit @ 15%				52631.16
	Total				**403505.52**
	Rate of Each				**403505.52**
	Say				**403506.00**

18.1.5	**2280 lpm at 70 m Head**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				
4295	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 70 m Head conforming to IS 1520 (b) Cost of 60 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	268000.00	268000.00

4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.48	4500.00	2160.00
				Total	**270160.00**
	Cartage @1% of A				2701.60
				Total	**272861.60**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**281389.60**
	Add 12% GST (MF= 0.1405)				39535.24
				Total	**320924.84**
C	Overheads & Profit @ 15%				48138.73
	Total				**369063.56**
	Rate of Each				**369063.56**
	Say				**369064.00**

18.1.6 2280 lpm at 56 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4296	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 56 m Head conforming to IS 1520 (b) Cost of 50 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	240000.00	240000.00
4320	Cost of cement concrete foundation with 35x35x5 mm angle frame on edges duly plastered with inertia blocks	Cum	0.48	4500.00	2160.00
				Total	**242160.00**
	Cartage @1% of A				2421.60
				Total	**244581.60**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00

1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**253109.60**
	Add 12% GST (MF= 0.1405)				35561.90
				Total	**288671.50**
C	Overheads & Profit @ 15%				43300.72
	Total				**331972.22**
	Rate of Each				**331972.22**
	Say				**331972.00**

18.1.7 1620 lpm at 88 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4297	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 88 m Head conforming to IS 1520 (b) Cost of 60 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	268000.00	268000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.48	4500.00	2160.00
				Total	**270160.00**
	Cartage @1% of A				2701.60
				Total	**272861.60**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**281389.60**
	Add 12% GST (MF= 0.1405)				39535.24
				Total	**320924.84**
C	Overheads & Profit @ 15%				48138.73
	Total				**369063.56**
	Rate of Each				**369063.56**

	Say				**369064.00**

18.1.8 1620 lpm at 70 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4298	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 70m Head conforming to IS 1520 (b) Cost of 50 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	240000.00	240000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.48	4500.00	2160.00
				Total	**242160.00**
	Cartage @1% of A				2421.60
				Total	**244581.60**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**253109.60**
	Add 12% GST (MF= 0.1405)				35561.90
				Total	**288671.50**
C	Overheads & Profit @ 15%				43300.72
	Total				**331972.22**
	Rate of Each				**331972.22**
	Say				**331972.00**

18.1.9 1620 lpm at 56 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				

4299	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 56 m Head conforming to IS 1520 (b) Cost of 40 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	204000.00	204000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.48	4500.00	2160.00
				Total	**206160.00**
	Cartage @1% of A				2061.60
				Total	**208221.60**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**216749.60**
	Add 12% GST (MF= 0.1405)				30453.32
				Total	**247202.92**
C	Overheads & Profit @ 15%				37080.44
	Total				**284283.36**
	Rate of Each				**284283.36**
	Say				**284283.00**

18.2 **(a) Supplying, installation, testing and commissioning of diesel enginedriven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Diesel Driven Pump)**

(b) Horizontal type, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.

(c) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required.

(d) M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required.

(e) Suitable cement concrete foundation duly plastered and with anti vibration pads.

18.2.1 2850 lpm at 88 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4300	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 88 m Head conforming to IS 1520	Each	1.00	505000.00	
	(b) Cost of 100 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325.				
	(c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads				505000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.80	4500.00	3600.00
				Total	**508600.00**
	Cartage @1% of A				5086.00
				Total	**513686.00**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**522214.00**
	Add 12% GST (MF= 0.1405)				73371.07
				Total	**595585.07**

C	Overheads & Profit @ 15%				89337.76
	Total				**684922.83**
	Rate of Each				**684922.83**
	Say				**684923.00**

18.2.2 2850 lpm at 70 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4301	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 70 m Head conforming to IS 1520 (b) Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	453700.00	453700.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.80	4500.00	3600.00
				Total	**457300.00**
	Cartage @1% of A				4573.00
				Total	**461873.00**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**470401.00**
	Add 12% GST (MF= 0.1405)				66091.34
				Total	**536492.34**
C	Overheads & Profit @ 15%				80473.85
	Total				**616966.19**
	Rate of Each				**616966.19**
	Say				**616966.00**

18.2.3 2850 lpm at 56 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				

4302	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 56 m Head conforming to IS 1520 (b) Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	451000.00	451000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.80	4500.00	3600.00
				Total	**454600.00**
	Cartage @1% of A				4546.00
				Total	**459146.00**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	679.00	1358.00
1087	Welder	day	2.00	679.00	1358.00
1007	Khallasi	day	8.00	558.00	4464.00
	Total				**7180.00**
	Total of A+B Rs.				**466326.00**
	Add 12% GST (MF= 0.1405)				65518.80
				Total	**531844.80**
C	Overheads & Profit @ 15%				79776.72
	Total				**611621.52**
	Rate of Each				**611621.52**
	Say				**611622.00**

18.2.4	**2280 lpm at 88 m Head**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				
4303	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 88 m Head conforming to IS 1520 (b) Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325.	Each	1.00	468000.00	468000.00

	(c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads				
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.80	4500.00	3600.00
				Total	**471600.00**
	Cartage @1% of A				4716.00
				Total	**476316.00**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**484844.00**
	Add 12% GST (MF= 0.1405)				68120.58
				Total	**552964.58**
C	Overheads & Profit @ 15%				82944.69
	Total				**635909.27**
	Rate of Each				**635909.27**
	Say				**635909.00**

18.2.5 2280 lpm at 70 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4304	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 70 m Head conforming to IS 1520 (b) Cost of 60 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	450000.00	450000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.80	4500.00	3600.00
				Total	**453600.00**
	Cartage @1% of A				4536.00
				Total	**458136.00**

B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**466664.00**
	Add 12% GST (MF= 0.1405)				65566.29
				Total	**532230.29**
C	Overheads & Profit @ 15%				79834.54
	Total				**612064.84**
	Rate of Each				**612064.84**
	Say				**612065.00**

18.2.6 2280 lpm at 56 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4305	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 56 m Head conforming to IS 1520 (b) Cost of 50 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	448000.00	448000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.80	4500.00	3600.00
				Total	**451600.00**
	Cartage @1% of A				4516.00
				Total	**456116.00**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**464644.00**
	Add 12% GST (MF= 0.1405)				65282.48
				Total	**529926.48**
C	Overheads & Profit @ 15%				79488.97

	Total				**609415.45**
	Rate of Each				**609415.45**
	Say				**609415.00**
18.2.7	**1620 lpm at 88 m Head**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				
4306	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 88 m Head conforming to IS 1520 (b) Cost of 60 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	463100.00	463100.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.80	4500.00	3600.00
				Total	**466700.00**
	Cartage @1% of A				4667.00
				Total	**471367.00**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**479895.00**
	Add 12% GST (MF= 0.1405)				67425.25
				Total	**547320.25**
C	Overheads & Profit @ 15%				82098.04
	Total				**629418.28**
	Rate of Each				**629418.28**
	Say				**629418.00**
18.2.8	**1620 lpm at 70 m Head**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				

4307	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 70 m Head conforming to IS 1520 (b) Cost of 50 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	435000.00	435000.00
4320	(d) Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.80	4500.00	3600.00
				Total	**438600.00**
	Add 12% GST (MF= 0.1405)				4386.00
				Total	**442986.00**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**451514.00**
	Add 12% GST (MF= 0.1405)				63437.72
				Total	**514951.72**
C	Overheads & Profit @ 15%				77242.76
	Total				**592194.47**
	Rate of Each				**592194.47**
	Say				**592194.00**

18.2.9	**1620 lpm at 56 m Head**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				
4308	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 56 m Head conforming to IS 1520 (b) Cost of 40 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325.	Each	1.00	375000.00	375000.00

	(c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads				
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.80	4500.00	3600.00
				Total	**378600.00**
	Cartage @1% of A				3786.00
				Total	**382386.00**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	2.00	806.00	1612.00
1007	Khallasi	day	8.00	663.00	5304.00
	Total				**8528.00**
	Total of A+B Rs.				**390914.00**
	Add 12% GST (MF= 0.1405)				54923.42
				Total	**445837.42**
C	Overheads & Profit @ 15%				66875.61
	Total				**512713.03**
	Rate of Each				**512713.03**
	Say				**512713.00**

18.3 **(a) Supplying, installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Jockey Pump)**

(b) Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS : 1520.

(c) Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS : 325.

(d) M.S.fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.

(e) Suitable cement concrete foundation duly plastered and with anti vibration pads.

18.3.1 **180 lpm at 88 m Head**

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				

4309	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 180 lpm at 88 m Head conforming to IS 1520 (b) Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	90000.00	90000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.36	4500.00	1620.00
				Total	**91620.00**
	Cartage @1% of A				916.20
				Total	**92536.20**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	1.50	806.00	1209.00
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4407.00**
	Total of A+B Rs.				**96943.20**
	Add 12% GST (MF= 0.1405)				13620.52
				Total	**110563.72**
C	Overheads & Profit @ 15%				16584.56
	Total				**127148.28**
	Rate of Each				**127148.28**
	Say				**127148.00**

18.3.2	**180 lpm at 70 m Head**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				
4310	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 180 lpm at 70 m Head conforming to IS 1520 (b) Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325.	Each	1.00	72000.00	72000.00

	(c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads				
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.36	4500.00	1620.00
				Total	**73620.00**
	Cartage @1% of A				736.20
				Total	**74356.20**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	1.50	806.00	1209.00
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4407.00**
	Total of A+B Rs.				**78763.20**
	Add 12% GST (MF= 0.1405)				11066.23
				Total	**89829.43**
C	Overheads & Profit @ 15%				13474.41
	Total				**103303.84**
	Rate of Each				**103303.84**
	Say				**103304.00**

18.3.3	**180 lpm at 56 m Head**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				
4311	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 180 lpm at 56 m Head conforming to IS 1520	Each	1.00	56000.00	56000.00
	(b) Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325.				
	(c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads				
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.36	4500.00	1620.00
				Total	**57620.00**
	Cartage @1% of A				576.20
				Total	**58196.20**

B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	1.50	806.00	1209.00
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4407.00**
	Total of A+B Rs.				**62603.20**
	Add 12% GST (MF= 0.1405)				8795.75
				Total	**71398.95**
C	Overheads & Profit @ 15%				10709.84
	Total				**82108.79**
	Rate of Each				**82108.79**
	Say				**82109.00**

18.3.4 300 lpm at 88 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4312	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 300 lpm at 88 m Head conforming to IS 1520 (b) Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	120000.00	120000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.36	4500.00	1620.00
				Total	**121620.00**
	Cartage @1% of A				1216.20
				Total	**122836.20**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	1.50	806.00	1209.00
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4407.00**
	Total of A+B Rs.				**127243.20**
	Add 12% GST (MF= 0.1405)				17877.67
				Total	**145120.87**
C	Overheads & Profit @ 15%				21768.13

	Total				**166889.00**
	Rate of Each				**166889.00**
	Say				**166889.00**
18.3.5	**300 lpm at 70 m Head**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				
4313	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 300 lpm at 70 m Head conforming to IS 1520 (b) Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	90200.00	90200.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.36	4500.00	1620.00
				Total	**91820.00**
	Cartage @1% of A				918.20
				Total	**92738.20**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	1.50	806.00	1209.00
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4407.00**
	Total of A+B Rs.				**97145.20**
	Add 12% GST (MF= 0.1405)				13648.90
				Total	**110794.10**
C	Overheads & Profit @ 15%				16619.12
	Total				**127413.22**
	Rate of Each				**127413.22**
	Say				**127413.00**
18.3.6	**300 lpm at 56 m Head**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				

4314	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 300 lpm at 56 m Head conforming to IS 1520 (b) Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	81000.00	81000.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.36	4500.00	1620.00
				Total	**82620.00**
	Cartage @1% of A				826.20
				Total	**83446.20**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	1.50	806.00	1209.00
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4407.00**
	Total of A+B Rs.				**87853.20**
	Add 12% GST (MF= 0.1405)				12343.37
				Total	**100196.57**
C	Overheads & Profit @ 15%				15029.49
	Total				**115226.06**
	Rate of Each				**115226.06**
	Say				**115226.00**

18.4 **(a) Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump)**

(b) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirmingto IS : 1520

(c) Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horiziontal foot mounted type with Class-'F' insulation, conforming to IS-325.

(d) M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc.as required.

(e) Suitable cement concrete foundation duly plastered and with anti vibration pads.

18.4.1 900 lpm at 35 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4315	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 900 lpm at 35 m Head conforming to IS 1520 (b) Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	70909.00	70909.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.36	4500.00	1620.00
				Total	**72529.00**
	Cartage @1% of A				725.29
				Total	**73254.29**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	1.50	806.00	1209.00
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4407.00**
	Total of A+B Rs.				**77661.29**
	Add 12% GST (MF= 0.1405)				10911.41
				Total	**88572.70**
C	Overheads & Profit @ 15%				13285.91
	Total				**101858.61**
	Rate of Each				**101858.61**
	Say				**101859.00**

18.4.2 450 lpm at 35 m Head

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				

4316	(a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 450 lpm at 35 mtr. Head conforming to IS 1520 (b) Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	Each	1.00	59091.00	59091.00
4320	Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	Cum	0.36	4500.00	1620.00
				Total	**60711.00**
	Cartage @1% of A				607.11
				Total	**61318.11**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	1.50	806.00	1209.00
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4407.00**
	Total of A+B Rs.				**65725.11**
	Add 12% GST (MF= 0.1405)				9234.38
				Total	**74959.49**
C	Overheads & Profit @ 15%				11243.92
	Total				**86203.41**
	Rate of Each				**86203.41**
	Say				**86203.00**

18.5 Fabrication, supply, Insallation testing & commissioning of Electricalcontrol panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, inter-connection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 42 as required :

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)

18.5.1

A **Materials**

INCOMING

4321 250A, 50kA 4 Pole MCCB, Ics=100% Icu rating

Digital Voltmeter 0-500V with selector switch

Digital Ammeter (0-250 A) with selector swtich & CTs etc.

LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps

Set of Copper Bus Bar 300A

OUTGOING

(Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)

Main Fire Pump

125 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.

Jockey Pump

63 A, 50kA TPN MCCB, Ics=100% Icu, with suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.

Diesel Engine Control

Control for diesel engine comprising -

Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode

	Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine				
	System Controller Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Each	1.00	175000.00	175000
	Add Cartage @ 1% of (a)				1750.00
				Total	**176750.00**
B	**Installation, testing and commissioning @6% of A**				**10605.00**
	Total of A+B Rs.				**187355.00**
	Add 12% GST (MF= 0.1405)				26323.38
				Total	**213678.38**
C	Overheads & Profit @ 15%				32051.76
	Total				**245730.13**
	Rate of Each				**245730.13**
	Say				**245730.00**

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
18.5.2					
A	**Materials**				
	Incomings				
4322	400A, 50kA 4 Pole MCCB, Ics=100% Icu rating Digital Voltmeter 0-500V with selector switch Ammeter (0-400 A) with selector swtich & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 500A				

Outgoings

(Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)

Main Fire Pump

200 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.

Jockey Pump

100 A, 50kA TPN MCCB, Ics=100% Icu, with suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.

Diesel Engine Control

Control for diesel engine comprising -

Automatic/Manual selctor switch & 3 attempt starting device, timers and relays as required, push buttons, start/stop in manual mode
Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication
Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter

All standard relays and accessories for automatic operation of diesel engine
System Controller

	Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specifications.	Each	1.00	205000.00	205000.00
	Add Cartage @ 1% of (a)				2050.00
				Total	**207050.00**
B	**Installation, testing and commissioning @6% of A**				**12423.00**
	Total of A+B Rs.				**219473.00**
	Add 12% GST (MF= 0.1405)				30835.96
				Total	**250308.96**
C	Overheads & Profit @ 15%				37546.34
	Total				**287855.30**
	Rate of Each				**287855.30**
	Say				**287855.00**

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
18.5.3					
A	**Materials**				
	Incomings				
4323	630A, 50kA 4 Pole MCCB, Ics=100% Icu rating				
	Digital Voltmeter 0-500V with selector switch				
	Ammeter (0-630 A) with selector swtich & CTs etc.				
	LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps				
	Set of Copper Bus Bar 800Amps				
	Outgoings				
	(Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)				
	Main Fire Pump				

	250 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.			
	Jockey Pump			
	125 A, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.			
	Diesel Engine Control			
	Control for diesel engine comprising -			
	Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode			
	Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication			
	Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter			
	All standard relays and accessories for automatic operation of diesel engine			
	System Controller			
	Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Each	1.00	230000.00	230000.00
	Add Cartage @ 1% of (a)				2300.00
				Total	**232300.00**

B	**Installation, testing and commissioning@6% of A**				**13938.00**
	Total of A+B Rs.				**246238.00**
	Add 12% GST (MF= 0.1405)				34596.44
				Total	**280834.44**
C	Overheads & Profit @ 15%				42125.17
	Total				**322959.60**
	Rate of Each				**322959.60**
	Say				**322960.00**

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
18.5.4					
A	**Materials**				
	Incomings				
4324	400A, 50kA 4 Pole MCCB, Ics=100% Icu Rating				
	Digital Voltmeter 0-500V with selector switch				
	Ammeter (0-400 A) with selector swtich & CTs etc.				
	LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps				
	Set of Copper Bus Bar 500Amps				
	Outgoings				
	(Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)				
	Main Fire Pumps				
	125 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. · 2 sets				
	Jockey Pump				

	63 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets				
	Diesel Engine Control				
	Control for diesel engine comprising -				
	Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode				
	Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication				
	Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter				
	All standard relays and accessories for automatic operation of diesel engine				
	System Controller				
	Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Each	1.00	265000.00	265000
	Add Cartage @ 1% of (a)				2650.00
				Total	**267650.00**
B	**Installation, testing and commissioning@6% of A**				**16059.00**
	Total of A+B Rs.				**283709.00**
	Add 12% GST (MF= 0.1405)				39861.11
				Total	**323570.11**
C	Overheads & Profit @ 15%				48535.52
	Total				**372105.63**
	Rate of Each				**372105.63**
	Say				**372106.00**

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
18.5.5					
A	**Materials**				
	Incomings				
4325	630A, 50kA 4 Pole MCCB, Ics=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-630 A) with selector swtich & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 800Amps				
	Outgoings (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)				
	Main Fire Pump 200 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets				
	Jockey Pump 100 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets				
	Diesel Engine Control Control for diesel engine comprising - Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode				

	Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller				
	Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Each	1.00	320000.00	320000
	Add Cartage @ 1% of (a)				3200.00
				Total	**323200.00**
B	**Installation, testing and commissioning@6% of A**				**19392.00**
	Total of A+B Rs.				**342592.00**
	Add 12% GST (MF= 0.1405)				48134.18
				Total	**390726.18**
C	Overheads & Profit @ 15%				58608.93
	Total				**449335.10**
	Rate of Each				**449335.10**
	Say				**449335.00**

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
18.5.6					
A	**Materials**				
	Incomings				
4326	800A, 50kA 4 Pole MCCB, Ics=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-800 A) with selector swtich & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 1000Amps				

Outgoings

(Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)

Main Fire Pump

250 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets

Jockey Pump

125 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets

Diesel Engine Control

Control for diesel engine comprising -

Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode

Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication

Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter

All standard relays and accessories for automatic operation of diesel engine

System Controller

	Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Each	1.00	410000.00	410000
	Add Cartage @ 1% of (a)				4100.00
				Total	**414100.00**
B	**Installation, testing and commissioning@6% of A**				**24846.00**
	Total of A+B Rs.				**438946.00**
	Add 12% GST (MF= 0.1405)				61671.91
				Total	**500617.91**
C	Overheads & Profit @ 15%				75092.69
	Total				**575710.60**
	Rate of Each				**575710.60**
	Say				**575711.00**

18.6 Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes

18.6.1 200 mm. dia (wall thickness = 6.3 mm)

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
3005	(a) Basic cost of 200 mm dia MS Pipe	m	10.00	2936.50	29365.00
	Add for necessary support, fitting such as bends, tees, welding material etc. @10%				2936.50
4327	Basic cost of 4 mm thick Anti Corrosive Pipe Protection Bituminous Tape	sq m	7.33	210.00	1539.09
4328	Basic cost of anticorrosive Black paint	Litre	0.63	110.00	69.30
	Add wastage @5% of A1 + A3 + A4				1548.67
				Total	**35458.56**
	Cartage @1% of A				**354.59**
				Total	**35813.15**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	1.00	806.00	806.00

1006	Painter	day	0.50	734.00	367.00
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4371.00**
C	**Excavation including refilling as required**	cum	8	276.52	**2212.16**
	Total of A+B+C Rs.				**42396.31**
	Add 12% GST (MF= 0.1405)				5956.68
				Total	**48352.99**
D	Overheads & Profit @ 15%				7252.95
	Total				**55605.93**
	Rate of Each				**55605.93**
	Cost of Per Meter				5560.59
	Say				**5561.00**

18.6.2 150 mm. Dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
3006	(a) Basic cost of 150 mm dia MS Pipe	m	10.00	1815.80	18158.00
	Add for necessary support, fitting such as bends, tees, welding material etc. @10%				1815.80
4327	Basic cost of 4 mm thick Anti Corrosive Pipe Protection Bituminous Tape	sq m	5.71	210.00	1199.31
4328	Basic cost of anticorrosive Black paint	Litre	0.47	110.00	51.70
	Add wastage @5% of A1 + A3 + A4				970.45
				Total	**22195.26**
	Cartage @1% of A				**221.95**
				Total	**22417.21**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	1.00	806.00	806.00
1006	Painter	day	0.50	734.00	367.00
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4371.00**
C	**Excavation including refilling as required**	cum	8	276.52	**2212.16**
	Total of A+B+C Rs.				**29000.37**
	Add 12% GST (MF= 0.1405)				4074.55
				Total	**33074.93**
D	Overheads & Profit @ 15%				4961.24
	Total				**38036.16**
	Rate of Each				**38036.16**

	Cost of Per Meter	3803.62
	Say	**3804.00**

18.7 Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :

18.7.1 25 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
3014	(a) Cost of 25 mm dia MS Pipe	m	10.00	255.50	2555.00
	Add wastage @5%				127.75
				Total	**2682.75**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**402.41**
				Total	3085.16
	Cartage @1% of A				**30.85**
				Total	**3116.01**
B	**Labour**				
1004	Fitter, Grade 1	day	1.25	806.00	1007.50
1087	Welder	day	0.25	806.00	201.50
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	1.75	663.00	1160.25
	Total				**2552.75**
	Total of A+B				**5668.76**
	Add 12% GST (MF= 0.1405)				796.46
				Total	**6465.23**
C	Overheads & Profit @ 15%				969.78
	Total				**7435.01**
	Rate of Each				**7435.01**
	Cost of Per Meter				743.50
	Say				**744.00**

18.7.2 32 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
3013	(a) Cost of 32 mm dia MS Pipe	m	10.00	326.20	3262.00
	Add wastage @5%				163.10

				Total	**3425.10**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**513.77**
				Total	3938.87
B	**Labour**				
1004	Fitter, Grade 1	day	1.25	806.00	1007.50
1087	Welder	day	0.25	806.00	201.50
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	1.75	663.00	1160.25
	Total				**2552.75**
	Total of A+B				**6491.62**
	Add 12% GST (MF= 0.1405)				912.07
				Total	**7403.69**
C	Overheads & Profit @ 15%				1110.55
	Total				**8514.24**
	Rate of Each				**8514.24**
	Cost of Per Meter				851.42
	Say				**851.00**

18.7.3 40 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
3012	(a) Cost of 40 mm dia MS Pipe	m	10.00	376.60	3766.00
	Add wastage @5%				188.30
				Total	**3954.30**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**593.15**
				Total	**4547.45**
	Cartage @1% of A				**45.47**
				Total	**4593.00**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	0.50	806.00	403.00
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	2.25	663.00	1491.75
	Total				**3287.25**
	Total of A+B				**7880.25**
	Add 12% GST (MF= 0.1405)				1107.18

				Total	**8987.43**
C	Overheads & Profit @ 15%				1348.11
	Total				**10335.54**
	Rate of Each				**10335.54**
	Cost of Per Meter				1033.55
	Say				**1034.00**

18.7.4 50 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
3011	(a) Cost of 50 mm dia MS Pipe	m	10.00	531.30	5313.00
	Add wastage @5%				265.65
				Total	**5578.65**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**836.80**
				Total	6415.45
	Cartage @1% of A				**64.15**
				Total	**6479.60**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	0.50	806.00	403.00
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	2.25	663.00	1491.75
	Total				**3287.25**
	Total of A+B				**9766.85**
	Add 12% GST (MF= 0.1405)				1372.24
				Total	**11139.09**
C	Overheads & Profit @ 15%				1670.86
	Total				**12809.96**
	Rate of Each				**12809.96**
	Cost of Per Meter				1281.00
	Say				**1281.00**

18.7.5 65 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
3010	(a) Cost of 65 mm dia MS Pipe	m	10.00	679.00	6790.00
	Add wastage @5%				339.50
				Total	**7129.50**

	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**1069.43**
				Total	8198.93
	Cartage @1% of A				**81.99**
				Total	**8280.91**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	0.50	806.00	403.00
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	2.75	663.00	1823.25
	Total				**4021.75**
	Total of A+B				**12302.66**
	Add 12% GST (MF= 0.1405)				1728.52
				Total	**14031.19**
C	Overheads & Profit @ 15%				2104.68
	Total				**16135.87**
	Rate of Each				**16135.87**
	Cost of Per Meter				1613.59
	Say				**1614.00**

18.7.6 80 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
3009	(a) Cost of 80 mm dia MS Pipe	m	10.00	848.40	8484.00
	Add wastage @5%				424.20
				Total	**8908.20**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**1336.23**
				Total	10244.43
	Cartage @1% of A				**102.44**
				Total	**10346.87**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	0.50	806.00	403.00
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	2.75	663.00	1823.25

	Total				**4021.75**
	Total of A+B				**14368.62**
	Add 12% GST (MF= 0.1405)				2018.79
				Total	**16387.42**
C	Overheads & Profit @ 15%				2458.11
	Total				**18845.53**
	Rate of Each				**18845.53**
	Cost of Per Meter				1884.55
	Say				**1885.00**

18.7.7 100 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
3008	(a) Cost of 100 mm dia MS Pipe	m	10.00	1237.60	12376.00
	Add wastage @5%				618.80
				Total	**12994.80**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**1949.22**
				Total	14944.02
	Cartage @1% of A				**149.44**
				Total	**15093.46**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	0.75	806.00	604.50
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4389.00**
	Total of A+B				**19482.46**
	Add 12% GST (MF= 0.1405)				2737.29
				Total	**22219.75**
C	Overheads & Profit @ 15%				3332.96
	Total				**25552.71**
	Rate of Each				**25552.71**
	Cost of Per Meter				2555.27
	Say				**2555.00**

18.7.8 150 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)

A	**Materials**				
3006	(a) Cost of 150 mm dia MS Pipe	m	10.00	1815.80	18158.00
	Add wastage @5%				907.90
				Total	**19065.90**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**2859.89**
				Total	21925.79
	Cartage @1% of A				**219.26**
				Total	**22145.04**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	1.00	806.00	806.00
1006	Painter	day	0.50	734.00	367.00
1007	Khallasi	day	3.50	663.00	2320.50
	Total				**5105.50**
	Total of A+B				**27250.54**
	Add 12% GST (MF= 0.1405)				3828.70
				Total	**31079.24**
C	Overheads & Profit @ 15%				4661.89
	Total				**35741.13**
	Rate of Each				**35741.13**
	Cost of Per Meter				3574.11
	Say				**3574.00**

18.7.9	**200 mm dia (wall thickness 6.3 mm)**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				
3005	(a) Cost of 200 mm dia MS Pipe	m	10.00	2936.50	29365.00
	Add wastage @5%				1468.25
				Total	**30833.25**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**4624.99**
				Total	35458.24
	Cartage @1% of A				**354.58**
				Total	**35812.82**
B	**Labour**				
1004	Fitter, Grade 1	day	2.50	806.00	2015.00
1087	Welder	day	1.00	806.00	806.00
1006	Painter	day	0.50	734.00	367.00

1007	Khallasi	day	4.00	663.00	2652.00
	Total				**5840.00**
	Total of A+B				**41652.82**
	Add 12% GST (MF= 0.1405)				5852.22
				Total	**47505.04**
C	Overheads & Profit @ 15%				7125.76
	Total				**54630.80**
	Rate of Each				**54630.80**
	Cost of Per Meter				5463.08
	Say				**5463.00**

18.7.10 250 mm dia (wall thickness 6.3 mm)

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
3004	(a) Cost of 250 mm dia MS Pipe	m	10.00	3684.10	36841.00
	Add wastage @5%				1842.05
				Total	**38683.05**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**5802.46**
				Total	44485.51
	Cartage @1% of A				**444.86**
				Total	**44930.36**
B	**Labour**				
1004	Fitter, Grade 1	day	2.50	806.00	2015.00
1087	Welder	day	1.00	806.00	806.00
1006	Painter	day	0.50	734.00	367.00
1007	Khallasi	day	4.00	663.00	2652.00
	Total				**5840.00**
	Total of A+B				**50770.36**
	Add 12% GST (MF= 0.1405)				7133.24
				Total	**57903.60**
C	Overheads & Profit @ 15%				8685.54
	Total				**66589.14**
	Rate of Each				**66589.14**
	Cost of Per Meter				6658.91
	Say				**6659.00**

18.7.11 300 mm dia (wall thickness 7.1 mm)

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)

A	**Materials**				
4255	(a) Cost of 300 mm dia MS Pipe	m	10.00	2106.00	21060.00
	Add wastage @5%				1053.00
				Total	**22113.00**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**3316.95**
				Total	25429.95
	Cartage @1% of A				**254.30**
				Total	**25684.25**
B	**Labour**				
1004	Fitter, Grade 1	day	3.00	806.00	2418.00
1087	Welder	day	1.00	806.00	806.00
1006	Painter	day	0.75	734.00	550.50
1007	Khallasi	day	4.75	663.00	3149.25
	Total				**6923.75**
	Total of A+B				**32608.00**
	Add 12% GST (MF= 0.1405)				4581.42
				Total	**37189.42**
C	Overheads & Profit @ 15%				5578.41
	Total				**42767.84**
	Rate of Each				**42767.84**
	Cost of Per Meter				4276.78
	Say				**4277.00**

18.8 Providing, laying, testing & commissioning of 'B' class medium duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :

18.8.1 25 mm

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4256	(a) Cost of 25 mm dia G.I. Pipe	m	10.00	171.00	1710.00
	Add wastage @5%				85.50
				Total	**1795.50**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**269.33**

				Total	2064.83
	Cartage @1% of A				**20.65**
				Total	**2085.47**
B	**Labour**				
1004	Fitter, Grade 1	day	1.25	806.00	1007.50
1087	Welder	day	0.25	806.00	201.50
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	1.75	663.00	1160.25
	Total				**2552.75**
	Total of A+B				**4638.22**
	Add 12% GST (MF= 0.1405)				651.67
				Total	**5289.89**
C	Overheads & Profit @ 15%				793.48
	Total				**6083.38**
	Rate of Each				**6083.38**
	Cost of Per Meter				608.34
	Say				**608.00**

18.8.2 32 mm

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4257	(a) Cost of 32 mm dia G.I. Pipe	m	10.00	215.00	2150.00
	Add wastage @5%				107.50
				Total	**2257.50**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**338.63**
				Total	2596.13
	Cartage @1% of A				**25.96**
				Total	**2622.00**
B	**Labour**				
1004	Fitter, Grade 1	day	1.25	806.00	1007.50
1087	Welder	day	0.25	806.00	201.50
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	1.75	663.00	1160.25
	Total				**2552.75**
	Total of A+B				**5174.75**
	Add 12% GST (MF= 0.1405)				727.05
				Total	**5901.80**
C	Overheads & Profit @ 15%				885.27
	Total				**6787.07**

	Rate of Each				**6787.07**
	Cost of Per Meter				678.71
	Say				**679.00**
18.8.3	**40 mm**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				
4258	(a) Cost of 40 mm dia G.I. Pipe	m	10.00	250.00	2500.00
	Add wastage @5%				125.00
				Total	**2625.00**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**393.75**
				Total	**3018.75**
	Cartage @1% of A				**30.19**
				Total	**3049.00**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	0.50	806.00	403.00
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	2.25	663.00	1491.75
	Total				**3287.25**
	Total of A+B				**6336.25**
	Add 12% GST (MF= 0.1405)				890.24
				Total	**7226.49**
C	Overheads & Profit @ 15%				1083.97
	Total				**8310.47**
	Rate of Each				**8310.47**
	Cost of Per Meter				831.05
	Say				**831.00**
18.8.4	**50 mm**				
ICD No.	**Descripion**	**Unit**	**Qty.**	**Rate**	**Amount (₹)**
A	**Materials**				
4259	(a) Cost of 50 mm dia G.I. Pipe	m	10.00	310.00	3100.00
	Add wastage @5%				155.00
				Total	**3255.00**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**488.25**
				Total	3743.25

	Cartage @1% of A				**37.43**
				Total	**3780.68**
B	**Labour**				
1004	Fitter, Grade 1	day	1.50	806.00	1209.00
1087	Welder	day	0.50	806.00	403.00
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	2.25	663.00	1491.75
	Total				**3287.25**
	Total of A+B				**7067.93**
	Add 12% GST (MF= 0.1405)				993.04
				Total	**8060.98**
C	Overheads & Profit @ 15%				1209.15
	Total				**9270.12**
	Rate of Each				**9270.12**
	Cost of Per Meter				927.01
	Say				**927.00**

18.8.5 65 mm

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4260	(a) Cost of 65 mm dia G.I. Pipe	m	10.00	395.00	3950.00
	Add wastage @5%				197.50
				Total	**4147.50**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**622.13**
				Total	4769.63
	Cartage @1% of A				**47.70**
				Total	**4817.32**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	0.50	806.00	403.00
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	2.75	663.00	1823.25
	Total				**4021.75**
	Total of A+B				**8839.07**
	Add 12% GST (MF= 0.1405)				1241.89
				Total	**10080.96**

C	Overheads & Profit @ 15%				1512.14
	Total				**11593.10**
	Rate of Each				**11593.10**
	Cost of Per Meter				1159.31
	Say				**1159.00**

18.8.6 80 mm

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4261	(a) Cost of 80 mm dia G.I. Pipe	m	10.00	505.00	5050.00
	Add wastage @5%				252.50
				Total	**5302.50**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**795.38**
				Total	6097.88
	Cartage @1% of A				**60.98**
				Total	**6158.85**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	0.50	806.00	403.00
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	2.75	663.00	1823.25
	Total				**4021.75**
	Total of A+B				**10180.60**
	Add 12% GST (MF= 0.1405)				1430.37
				Total	**11610.98**
C	Overheads & Profit @ 15%				1741.65
	Total				**13352.63**
	Rate of Each				**13352.63**
	Cost of Per Meter				1335.26
	Say				**1335.00**

18.8.7 100 mm

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4262	(a) Cost of 100 mm dia G.I. Pipe	m	10.00	714.00	7140.00
	Add wastage @5%				357.00
				Total	**7497.00**

	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**1124.55**
				Total	8621.55
	Cartage @1% of A				**86.22**
				Total	**8707.77**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	0.75	806.00	604.50
1006	Painter	day	0.25	734.00	183.50
1007	Khallasi	day	3.00	663.00	1989.00
	Total				**4389.00**
	Total of A+B				**13096.77**
	Add 12% GST (MF= 0.1405)				1840.10
				Total	**14936.86**
C	Overheads & Profit @ 15%				2240.53
	Total				**17177.39**
	Rate of Each				**17177.39**
	Cost of Per Meter				1717.74
	Say				**1718.00**

18.8.8 150 mm

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4263	(a) Cost of 150 mm dia G.I. Pipe	m	10.00	1066.00	10660.00
	Add wastage @5%				533.00
				Total	**11193.00**
	Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%				**1678.95**
				Total	12871.95
	Cartage @1% of A				**128.72**
				Total	**13000.67**
B	**Labour**				
1004	Fitter, Grade 1	day	2.00	806.00	1612.00
1087	Welder	day	1.00	806.00	806.00
1006	Painter	day	0.50	734.00	367.00
1007	Khallasi	day	3.50	663.00	2320.50
	Total				**5105.50**

	Total of A+B		**18106.17**
	Add 12% GST (MF= 0.1405)		2543.92
		Total	**20650.09**
C	Overheads & Profit @ 15%		3097.51
	Total		**23747.60**
	Rate of Each		**23747.60**
	Cost of Per Meter		2374.76
	Say		**2375.00**

18.9 Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required :

18.9.1 Single headed Gunmetal

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4201	(a) Cost of single head gunmetal hydrant valve	Each	1.00	4685.00	4685.00
4329	(b) Cost of 4 Nos. nuts bolts and washers	Set	1.00	50.00	50.00
4330	(c) Cost of 1 No. 3 mm thick rubber gasket	Each	1.00	70.00	70.00
4331	(d) Cost of 1 No. MS flange as per IS driling 16 mm thick LS	Set	1.00	200.00	200.00
4332	(e) Cost of welding rod	Job	1.00	40.00	40.00
				Total	**5045.00**
	Cartage @1% of A				50.45
				Total	**5095.45**
B	**Labour**				
1004	Fitter, Grade 1	day	0.25	806.00	201.50
1087	Welder	day	0.25	806.00	201.50
1007	Khallasi	day	0.50	663.00	331.50
	Total				**734.50**
	Total of A+B Rs.				**5829.95**
	Add 12% GST (MF= 0.1405)				819.11
				Total	**6649.06**
C	Overheads & Profit @ 15%				997.36
	Total				**7646.42**
	Rate of Each				**7646.42**
	Say				**7646.00**

18.9.2 Single headed Stainless steel

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4202	(a) Cost of Single Head Stainless Steel Hydrant Valve	Each	1.00	3547.00	3547.00
4329	(b) Cost of 4 Nos. nuts bolts and washers LS	Set	1.00	50.00	50.00
4330	(c) Cost of 1 No. 3 mm thick rubber gasket	Each	1.00	70.00	70.00
4331	(d) Cost of 1 No. MS flange as per IS driling 16mm thick LS	Set	1.00	200.00	200.00
4332	(e) Cost of welding rod	Job	1.00	40.00	40.00
				Total	**3907.00**
	Cartage @1% of A				39.07
				Total	**3946.07**
B	**Labour**				
1004	Fitter, Grade 1	day	0.25	806.00	201.50
1087	Welder	day	0.25	806.00	201.50
1007	Khallasi	day	0.50	663.00	331.50
	Total				**734.50**
	Total of A+B Rs.				**4680.57**
	Add 12% GST (MF= 0.1405)				657.62
				Total	**5338.19**
C	Overheads & Profit @ 15%				800.73
	Total				**6138.92**
	Rate of Each				**6138.92**
	Say				**6139.00**

18.10 Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FM Gunmetal/Stainless Steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal/Stainless Steel cap and chain as required :

18.10.1 Single headed Gunmetal

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4201	(a) Cost of single head gunmetal hydrant valve	Each	1.00	4685.00	4685.00
4329	(b) Cost of 4 Nos. nuts bolts and washers	Set	1.00	50.00	50.00

4330	(c) Cost of 1 No. 3mm thick rubber gasket	Each	1.00	70.00	70.00
4331	(d) Cost of 1 No. MS flange as per IS driling 16mm thick LS	Set	1.00	200.00	200.00
4332	(e) Cost of welding rod	Job	1.00	40.00	40.00
				Total	**5045.00**
	Cartage @1% of A				50.45
				Total	**5095.45**
B	**Labour**				
1004	Fitter, Grade 1	day	0.25	806.00	201.50
1087	Welder	day	0.25	806.00	201.50
1007	Khallasi	day	0.50	663.00	331.50
	Total				**734.50**
	Total of A+B Rs.				**5829.95**
	Add 12% GST (MF= 0.1405)				819.11
				Total	**6649.06**
C	Overheads & Profit @ 15%				997.36
	Total				**7646.42**
	Rate of Each				**7646.42**
	Say				**7646.00**

18.10.2 Single headed Stainless steel

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4202	(a) Cost of Single Head Stainless Steel Hydrant Valve	Each	1.00	3547.00	3547.00
4329	(b) Cost of 4 Nos. nuts bolts and washers LS	Set	1.00	50.00	50.00
4330	(c) Cost of 1 No. 3mm thick rubber gasket	Each	1.00	70.00	70.00
4331	(d) Cost of 1 No. MS flange as per IS driling 16mm thick LS	Set	1.00	200.00	200.00
4332	(e) Cost of welding rod	Job	1.00	40.00	40.00
				Total	**3907.00**
	Cartage @1% of A				39.07
				Total	**3946.07**
B	**Labour**				
1004	Fitter, Grade 1	day	0.25	806.00	201.50
1087	Welder	day	0.25	806.00	201.50
1007	Khallasi	day	0.50	663.00	331.50

	Total		**734.50**
	Total of A+B Rs.		**4680.57**
	Add 12% GST (MF= 0.1405)		657.62
		Total	**5338.19**
C	Overheads & Profit @ 15%		800.73
	Total		**6138.92**
	Rate of Each		**6138.92**
	Say		**6139.00**

18.11 Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :

18.11.1 40 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4234	(a) Cost of 40mm dia butterfly valve	Each	1.00	1948.00	1948.00
4333	(b) Cost of 40mm dia Flange	Each	2.00	110.00	220.00
4334	(c) Cost of 8 Nos. Nut bolt fastner and packing gaskets	Each	1.00	90.00	90.00
4335	(d) Cost of weldign rod LS	Each		60.00	60.00
				Total	**2318.00**
	Cartage @1% of A				23.18
				Total	**2341.18**
B	**Labour**				
1004	Fitter, Grade 1	day	0.15	806.00	120.90
1087	Welder	day	0.12	806.00	96.72
1007	Khallasi	day	0.27	663.00	179.01
	Total				**396.63**
	Total of A+B Rs.				**2737.81**
	Add 12% GST (MF= 0.1405)				384.66
				Total	**3122.47**
C	Overheads & Profit @ 15%				468.37
	Total				**3590.84**
	Rate of Each				**3590.84**
	Say				**3591.00**

18.11.2 50mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)

A	**Materials**				
4235	(a) Cost of 50mm dia butterfly valve	Each	1.00	1948.00	1948.00
4337	(b) Cost of 50mm dia Flange	Each	2.00	110.00	220.00
4334	(c) Cost of 8 Nos. Nut bolt fastner and packing gaskets	Each	1.00	90.00	90.00
4335	(d) Cost of weldign rod LS	Each		60.00	60.00
				Total	**2318.00**
	Cartage @1% of A				23.18
				Total	**2341.18**
B	**Labour**				
1004	Fitter, Grade 1	day	0.22	806.00	177.32
1087	Welder	day	0.15	806.00	120.90
1007	Khallasi	day	0.37	663.00	245.31
	Total				**543.53**
	Total of A+B Rs.				**2884.71**
	Add 12% GST (MF= 0.1405)				405.30
				Total	**3290.01**
C	Overheads & Profit @ 15%				493.50
	Total				**3783.51**
	Rate of Each				**3783.51**
	Say				**3784.00**

18.11.3 65 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4236	(a) Cost of 65 mm dia butterfly valve	Each	1.00	2150.00	2150.00
4338	(b) Cost of 65 mm dia Flange	Each	2.00	110.00	220.00
4334	(c) Cost of 8 Nos. Nut bolt fastner and packing gaskets	Each	1.00	90.00	90.00
4335	(d) Cost of weldign rod LS	Each		60.00	60.00
				Total	**2520.00**
	Cartage @1% of A				25.20
				Total	**2545.20**
B	**Labour**				
1004	Fitter, Grade 1	day	0.30	806.00	241.80
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.50	663.00	331.50
	Total				**734.50**

	Total of A+B Rs.				**3279.70**
	Add 12% GST (MF= 0.1405)				460.80
				Total	**3740.50**
C	Overheads & Profit @ 15%				561.07
	Total				**4301.57**
	Rate of Each				**4301.57**
	Say				**4302.00**

18.11.4 80 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4237	(a) Cost of 80 mm dia butterfly valve	Each	1.00	2382.00	2382.00
4340	(b) Cost of 80 mm dia Flange	Each	2.00	220.00	440.00
4341	(c) Cost of 8 Nos. Nut bolt fastner and packing gaskets	Each	1.00	180.00	180.00
4342	(d) Cost of weldign rod LS	Each		90.00	90.00
				Total	**3092.00**
	Cartage @1% of A				30.92
				Total	**3122.92**
B	**Labour**				
1004	Fitter, Grade 1	day	0.30	806.00	241.80
1087	Welder	day	0.16	806.00	128.96
1007	Khallasi	day	0.46	663.00	304.98
	Total				**675.74**
	Total of A+B Rs.				**3798.66**
	Add 12% GST (MF= 0.1405)				533.71
				Total	**4332.37**
C	Overheads & Profit @ 15%				649.86
	Total				**4982.23**
	Rate of Each				**4982.23**
	Say				**4982.00**

18.11.5 100 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4238	(a) Cost of 100 mm dia butterfly valve	Each	1.00	3305.00	3305.00
4343	(b) Cost of 100 mm dia Flange	Each	2.00	220.00	440.00

4341	(c) Cost of 8 Nos. Nut bolt fastner and packing gaskets	Each	1.00	180.00	180.00
4342	(d) Cost of weldign rod LS	Each		90.00	90.00
				Total	**4015.00**
	Cartage @1% of A				40.15
				Total	**4055.15**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.70	663.00	464.10
	Total				**1028.30**
	Total of A+B Rs.				**5083.45**
	Add 12% GST (MF= 0.1405)				714.22
				Total	**5797.67**
C	Overheads & Profit @ 15%				869.65
	Total				**6667.33**
	Rate of Each				**6667.33**
	Say				**6667.00**

18.11.6 150 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4240	(a) Cost of 150 mm dia butterfly valve	Each	1.00	4803.00	4803.00
4344	(b) Cost of 150 mm dia Flange	Each	2.00	220.00	440.00
4341	(c) Cost of 8 Nos. Nut bolt fastner and packing gaskets	Each	1.00	180.00	180.00
4342	(d) Cost of weldign rod LS	Each		90.00	90.00
				Total	**5513.00**
	Cartage @1% of A				55.13
				Total	**5568.13**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.50	806.00	403.00
1007	Khallasi	day	0.69	663.00	457.47
	Total				**1263.47**
	Total of A+B Rs.				**6831.60**
	Add 12% GST (MF= 0.1405)				959.84
				Total	**7791.44**
C	Overheads & Profit @ 15%				1168.72

	Total	**8960.16**
	Rate of Each	**8960.16**
	Say	**8960.00**

18.11.7 200 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4241	(a) Cost of 200 mm dia butterfly valve	Each	1.00	9188.00	9188.00
4345	(b) Cost of 200 mm dia Flange	Each	2.00	340.00	680.00
4346	(c) Cost of 8 Nos. Nut bolt fastner and packing gaskets	Each	1.00	300.00	300.00
4347	(d) Cost of weldign rod LS	Each		120.00	120.00
				Total	**10288.00**
	Cartage @1% of A				102.88
				Total	**10390.88**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.50	806.00	403.00
1007	Khallasi	day	0.60	663.00	397.80
	Total				**1203.80**
	Total of A+B Rs.				**11594.68**
	Add 12% GST (MF= 0.1405)				1629.05
				Total	**13223.73**
C	Overheads & Profit @ 15%				1983.56
	Total				**15207.29**
	Rate of Each				**15207.29**
	Say				**15207.00**

18.11.8 250 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4242	(a) Cost of 250 mm dia butterfly valve	Each	1.00	12912.00	12912.00
4348	(b) Cost of 250 mm dia Flange	Each	2.00	340.00	680.00
4365	(c) Cost of 12 Nos. Nut bolt fastner and packing gaskets	Each	1.00	450.00	450.00
4347	(d) Cost of weldign rod LS	Each		120.00	120.00
				Total	**14162.00**
	Cartage @1% of A				141.62

				Total	**14303.62**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.50	806.00	403.00
1007	Khallasi	day	0.70	663.00	464.10
	Total				**1270.10**
	Total of A+B Rs.				**15573.72**
	Add 12% GST (MF= 0.1405)				2188.11
				Total	**17761.83**
C	Overheads & Profit @ 15%				2664.27
	Total				**20426.10**
	Rate of Each				**20426.10**
	Say				**20426.00**

18.11.9 300 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4243	(a) Cost of 300 mm dia butterfly valve	Each	1.00	16105.00	16105.00
4349	(b) Cost of 300 mm dia Flange	Each	2.00	340.00	680.00
4365	(c) Cost of 12 Nos. Nut bolt fastner and packing gaskets	Each	1.00	450.00	450.00
4347	(d) Cost of weldign rod LS	Each	1.00	120.00	120.00
				Total	**17355.00**
	Cartage @1% of A				173.55
				Total	**17528.55**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.50	806.00	403.00
1007	Khallasi	day	0.70	663.00	464.10
	Total				**1270.10**
	Total of A+B Rs.				**18798.65**
	Add 12% GST (MF= 0.1405)				2641.21
				Total	**21439.86**
C	Overheads & Profit @ 15%				3215.98
	Total				**24655.84**
	Rate of Each				**24655.84**
	Say				**24656.00**

18.12 Supplying, fixing, testing & commissioning of double flanged sluice valve of rating PN 1.6 with non rising spindle, bronze/gun metal seat, ISI marked complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes as required :

18.12.1 40mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4274	(a) Cost of 40 mm DIA Sluice Valve	Each	1.00	3540.00	3540.00
4333	(b) Cost of 40 mm dia flange	Each	2.00	110.00	220.00
4334	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	90.00	90.00
4335	(d) Cost of welding rod	Each	1.00	60.00	60.00
				Total	**3910.00**
	Cartage @1% of A				39.10
				Total	**3949.10**
B	**Labour**				
1004	Fitter, Grade 1	day	0.15	806.00	120.90
1087	Welder	day	0.12	806.00	96.72
1007	Khallasi	day	0.27	663.00	179.01
	Total				**396.63**
	Total of A+B Rs.				**4345.73**
	Add 12% GST (MF= 0.1405)				610.58
				Total	**4956.31**
C	Overheads & Profit @ 15%				743.45
	Total				**5699.75**
	Rate of Each				**5699.75**
	Say				**5700.00**

18.12.2 50 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4275	(a) Cost of 50 mm DIA Sluice Valve	Each	1.00	4532.00	4532.00
4337	(b) Cost of 50 mm dia flange	Each	2.00	110.00	220.00
4334	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	90.00	90.00
4335	(d) Cost of welding rod	Each	1.00	60.00	60.00
				Total	**4902.00**
	Cartage @1% of A				49.02
				Total	**4951.02**
B	**Labour**				
1004	Fitter, Grade 1	day	0.22	806.00	177.32

1087	Welder	day	0.15	806.00	120.90
1007	Khallasi	day	0.37	663.00	245.31
	Total				**543.53**
	Total of A+B Rs.				**5494.55**
	Add 12% GST (MF= 0.1405)				771.98
				Total	**6266.53**
C	Overheads & Profit @ 15%				939.98
	Total				**7206.51**
	Rate of Each				**7206.51**
	Say				**7207.00**

18.12.3 65mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4276	(a) Cost of 65 mm DIA Sluice Valve	Each	1.00	5875.00	5875.00
4338	(b) Cost of 65 mm dia flange	Each	2.00	110.00	220.00
4334	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	90.00	90.00
4335	(d) Cost of welding rod	Each	1.00	60.00	60.00
				Total	**6245.00**
	Cartage @1% of A				62.45
				Total	**6307.45**
B	**Labour**				
1004	Fitter, Grade 1	day	0.30	806.00	241.80
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.50	663.00	331.50
	Total				**734.50**
	Total of A+B Rs.				**7041.95**
	Add 12% GST (MF= 0.1405)				989.39
				Total	**8031.34**
C	Overheads & Profit @ 15%				1204.70
	Total				**9236.05**
	Rate of Each				**9236.05**
	Say				**9236.00**

18.12.4 80mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4277	(a) Cost of 80 mm DIA Sluice Valve	Each	1.00	6663.00	6663.00
4340	(b) Cost of 80mm dia flange	Each	2.00	220.00	440.00

4341	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	180.00	180.00
4342	(d) Cost of welding rod	Each	1.00	90.00	90.00
				Total	**7373.00**
	Cartage @1% of A				73.73
				Total	**7446.73**
B	**Labour**				
1004	Fitter, Grade 1	day	0.30	806.00	241.80
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.46	663.00	304.98
	Total				**707.98**
	Total of A+B Rs.				**8154.71**
	Add 12% GST (MF= 0.1405)				1145.74
				Total	**9300.45**
C	Overheads & Profit @ 15%				1395.07
	Total				**10695.51**
	Rate of Each				**10695.51**
	Say				**10696.00**

18.12.5 100mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4278	(a) Cost of 100 mm DIA Sluice Valve	Each	1.00	9324.00	9324.00
4348	(b) Cost of 100mm dia flange	Each	2.00	220.00	440.00
4341	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	180.00	180.00
4342	(d) Cost of welding rod	Each	1.00	90.00	90.00
				Total	**10034.00**
	Cartage @1% of A				100.34
				Total	**10134.34**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.70	663.00	464.10
	Total				**1028.30**
	Total of A+B Rs.				**11162.64**
	Add 12% GST (MF= 0.1405)				1568.35
				Total	**12730.99**
C	Overheads & Profit @ 15%				1909.65
	Total				**14640.64**

	Rate of Each				**14640.64**
	Say				**14641.00**

18.12.6 150mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4280	(a) Cost of 150mm DIA Sluice Valve	Each	1.00	15461.00	15461.00
4344	(b) Cost of 150mm dia flange	Each	2.00	220.00	440.00
4341	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	180.00	180.00
4342	(d) Cost of welding rod	Each	1.00	90.00	90.00
				Total	**16171.00**
	Cartage @1% of A				161.71
				Total	**16332.71**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.69	663.00	457.47
	Total				**1021.67**
	Total of A+B Rs.				**17354.38**
	Add 12% GST (MF= 0.1405)				2438.29
				Total	**19792.67**
C	Overheads & Profit @ 15%				2968.90
	Total				**22761.57**
	Rate of Each				**22761.57**
	Say				**22762.00**

18.12.7 200mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4281	(a) Cost of 200mm DIA Sluice Valve	Each	1.00	27639.00	27639.00
4345	(b) Cost of 200mm dia flange	Each	2.00	340.00	680.00
4346	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	300.00	300.00
4347	(d) Cost of welding rod	Each	1.00	120.00	120.00
				Total	**28739.00**
	Cartage @1% of A				287.39
				Total	**29026.39**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00

1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.60	663.00	397.80
	Total				**962.00**
	Total of A+B Rs.				**29988.39**
	Add 12% GST (MF= 0.1405)				4213.37
				Total	**34201.76**
C	Overheads & Profit @ 15%				5130.26
	Total				**39332.02**
	Rate of Each				**39332.02**
	Say				**39332.00**

18.12.8 250mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4282	(a) Cost of 250 mm DIA Sluice Valve	Each	1.00	32913.00	32913.00
4348	(b) Cost of 250 mm dia flange	Each	2.00	340.00	680.00
4365	(c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	450.00	450.00
4347	(d) Cost of welding rod	Each	1.00	120.00	120.00
				Total	**34163.00**
	Cartage @1% of A				341.63
				Total	**34504.63**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.60	663.00	397.80
	Total				**962.00**
	Total of A+B Rs.				**35466.63**
	Add 12% GST (MF= 0.1405)				4983.06
				Total	**40449.69**
C	Overheads & Profit @ 15%				6067.45
	Total				**46517.15**
	Rate of Each				**46517.15**
	Say				**46517.00**

18.12.9 300mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4283	(a) Cost of 300mm DIA Sluice Valve	Each	1.00	47409.00	47409.00
4349	(b) Cost of 300mm dia flange	Each	2.00	340.00	680.00

4365	(c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	450.00	450.00
4347	(d) Cost of welding rod	Each	1.00	120.00	120.00
				Total	**48659.00**
	Cartage @1% of A				486.59
				Total	**49145.59**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.60	663.00	397.80
	Total				**962.00**
	Total of A+B Rs.				**50107.59**
	Add 12% GST (MF= 0.1405)				7040.12
				Total	**57147.71**
C	Overheads & Profit @ 15%				8572.16
	Total				**65719.86**
	Rate of Each				**65719.86**
	Say				**65720.00**

18.13 Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet tothe level of 3.5 kg/cm2 complete as required.

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4319	(a) Cost of orifice plate	Each	1.00	802.00	802.00
4363	(b) Cost of packing gaskets	LS	1.00	50.00	50.00
				Total	**852.00**
	Cartage @1% of A				8.52
				Total	**860.52**
B	**Labour**				
1004	Fitter, Grade 1	day	0.1	806.00	80.60
1007	Khallasi	day	0.1	663.00	66.30
	Total				**146.90**
	Total of A+B Rs.				**1007.42**
	Add 12% GST (MF= 0.1405)				141.54
				Total	**1148.96**
C	Overheads & Profit @ 15%				172.34
	Total				**1321.31**
	Rate of Each				**1321.31**
	Say				**1321.00**

18.14 Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :

18.14.1 40mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4264	(a) Cost of 40 mm dia Non Return Valve	Each	1.00	3311.00	3311.00
4333	(b) Cost of 40 mm dia flange	Each	2.00	110.00	220.00
4334	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	90.00	90.00
4335	(d) Cost of welding rod	Each	1.00	60.00	60.00
				Total	**3681.00**
	Cartage @1% of A				36.81
				Total	**3717.81**
B	**Labour**				
1004	Fitter, Grade 1	day	0.32	806.00	257.92
1087	Welder	day	0.15	806.00	120.90
1007	Khallasi	day	0.48	663.00	318.24
	Total				**697.06**
	Total of A+B Rs.				**4414.87**
	Add 12% GST (MF= 0.1405)				620.29
				Total	**5035.16**
C	Overheads & Profit @ 15%				755.27
	Total				**5790.43**
	Rate of Each				**5790.43**
	Say				**5790.00**

18.14.2 50mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4265	(a) Cost of 50 mm dia Non Return Valve	Each	1.00	3311.00	3311.00
4337	(b) Cost of 50 mm dia flange	Each	2.00	110.00	220.00
4334	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	90.00	90.00
4335	(d) Cost of welding rod	Each	1.00	60.00	60.00
				Total	**3681.00**

	Cartage @1% of A				36.81
				Total	**3717.81**
B	**Labour**				
1004	Fitter, Grade 1	day	0.32	806.00	257.92
1087	Welder	day	0.15	806.00	120.90
1007	Khallasi	day	0.48	663.00	318.24
	Total				**697.06**
	Total of A+B Rs.				**4414.87**
	Add 12% GST (MF= 0.1405)				620.29
				Total	**5035.16**
C	Overheads & Profit @ 15%				755.27
	Total				**5790.43**
	Rate of Each				**5790.43**
	Say				**5790.00**

18.14.3 65mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4266	(a) Cost of 65 mm dia Non Return Valve	Each	1.00	3785.00	3785.00
4338	(b) Cost of 65 mm dia flange	Each	2.00	110.00	220.00
4334	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	90.00	90.00
4335	(d) Cost of welding rod	Each	1.00	60.00	60.00
				Total	**4155.00**
	Cartage @1% of A				41.55
				Total	**4196.55**
B	**Labour**				
1004	Fitter, Grade 1	day	0.32	806.00	257.92
1087	Welder	day	0.15	806.00	120.90
1007	Khallasi	day	0.48	663.00	318.24
	Total				**697.06**
	Total of A+B Rs.				**4893.61**
	Add 12% GST (MF= 0.1405)				687.55
				Total	**5581.16**
C	Overheads & Profit @ 15%				837.17
	Total				**6418.34**
	Rate of Each				**6418.34**
	Say				**6418.00**

18.14.4 80mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4267	(a) Cost of 80 mm dia Non Return Valve	Each	1.00	4366.00	4366.00
4340	(b) Cost of 80 mm dia flange	Each	2.00	220.00	440.00
4341	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	180.00	180.00
4342	(d) Cost of welding rod	Each	1.00	90.00	90.00
				Total	**5076.00**
	Cartage @1% of A				50.76
				Total	**5126.76**
B	**Labour**				
1004	Fitter, Grade 1	day	0.32	806.00	257.92
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.48	663.00	318.24
	Total				**737.36**
	Total of A+B Rs.				**5864.12**
	Add 12% GST (MF= 0.1405)				823.91
				Total	**6688.03**
C	Overheads & Profit @ 15%				1003.20
	Total				**7691.23**
	Rate of Each				**7691.23**
	Say				**7691.00**

18.14.5 100mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4268	(a) Cost of 100 mm dia Non Return Valve	Each	1.00	6607.00	6607.00
4343	(b) Cost of 100 mm dia flange	Each	2.00	220.00	440.00
4341	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	180.00	180.00
4342	(d) Cost of welding rod	Job	1.00	90.00	90.00
				Total	**7317.00**
	Cartage @1% of A				73.17
				Total	**7390.17**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00

1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.71	663.00	470.73
	Total				**1034.93**
	Total of A+B Rs.				**8425.10**
	Add 12% GST (MF= 0.1405)				1183.73
				Total	**9608.83**
C	Overheads & Profit @ 15%				1441.32
	Total				**11050.15**
	Rate of Each				**11050.15**
	Say				**11050.00**

18.14.6 125mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4269	(a) Cost of 125 mm dia Non Return Valve	Each	1.00	10290.00	10290.00
4351	(b) Cost of 125 mm dia flange	Each	2.00	220.00	440.00
4341	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	180.00	180.00
4342	(d) Cost of welding rod	Each	1.00	90.00	90.00
				Total	**11000.00**
	Cartage @1% of A				110.00
				Total	**11110.00**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.69	663.00	457.47
	Total				**1021.67**
	Total of A+B Rs.				**12131.67**
	Add 12% GST (MF= 0.1405)				1704.50
				Total	**13836.17**
C	Overheads & Profit @ 15%				2075.43
	Total				**15911.60**
	Rate of Each				**15911.60**
	Say				**15912.00**

18.14.7 150mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				

4270	(a) Cost of 150 mm dia Non Return Valve	Each	1.00	11718.00	11718.00
4344	(b) Cost of 150 mm dia flange	Each	2.00	220.00	440.00
4341	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	180.00	180.00
4342	(d) Cost of welding rod	Job	1.00	90.00	90.00
				Total	**12428.00**
	Cartage @1% of A				124.28
				Total	**12552.28**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.67	663.00	444.21
	Total				**1008.41**
	Total of A+B Rs.				**13560.69**
	Add 12% GST (MF= 0.1405)				1905.28
				Total	**15465.97**
C	Overheads & Profit @ 15%				2319.90
	Total				**17785.86**
	Rate of Each				**17785.86**
	Say				**17786.00**

18.14.8 200mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4271	(a) Cost of 200 mm dia Non Return Valve	Each	1.00	20013.00	20013.00
4345	(b) Cost of 200 mm dia flange	Each	2.00	340.00	680.00
4346	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	300.00	300.00
4347	(d) Cost of welding rod	Each	1.00	120.00	120.00
				Total	**21113.00**
	Cartage @1% of A				211.13
				Total	**21324.13**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.66	663.00	437.58
	Total				**1001.78**
	Total of A+B Rs.				**22325.91**
	Add 12% GST (MF= 0.1405)				3136.79

				Total	**25462.70**
C	Overheads & Profit @ 15%				3819.41
	Total				**29282.11**
	Rate of Each				**29282.11**
	Say				**29282.00**

18.14.9 250mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4272	(a) Cost of 250 mm dia Non Return Valve	Each	1.00	31946.00	31946.00
4348	(b) Cost of 250 mm dia flange	Each	2.00	340.00	680.00
4365	(c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	450.00	450.00
4347	(d) Cost of welding rod	Each	1.00	120.00	120.00
				Total	**33196.00**
	Cartage @1% of A				331.96
				Total	**33527.96**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.66	663.00	437.58
	Total				**1001.78**
	Total of A+B Rs.				**34529.74**
	Add 12% GST (MF= 0.1405)				4851.43
				Total	**39381.17**
C	Overheads & Profit @ 15%				5907.18
	Total				**45288.34**
	Rate of Each				**45288.34**
	Say				**45288.00**

18.14.10 300mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4273	(a) Cost of 300 mm dia Non Return Valve	Each	1.00	43392.00	43392.00
4349	(b) Cost of 300 mm dia flange	Each	2.00	340.00	680.00
4365	(c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	450.00	450.00

4347	(d) Cost of welding rod	Each	1.00	120.00	120.00
				Total	**44642.00**
	Cartage @1% of A				446.42
				Total	**45088.42**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.66	663.00	437.58
	Total				**1001.78**
	Total of A+B Rs.				**46090.20**
	Add 12% GST (MF= 0.1405)				6475.67
				Total	**52565.87**
C	Overheads & Profit @ 15%				7884.88
	Total				**60450.75**
	Rate of Each				**60450.75**
	Say				**60451.00**

18.15 Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.

18.15.1 80 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4284	Cost of 80 mm dia CIDF SS Mesh Strainer	Each	1.00	2530.80	2530.80
4352	(b) Cost of 80 mm dia flange	Each	2.00	110.00	220.00
4364	(c) Cost of 4 Nos. Nut Bolt fastner & packing gaskets	LS	1.00	90.00	90.00
4335	(d) Cost of welding rod	Each	1.00	60.00	60.00
				Total	**2900.80**
	Cartage @1% of A				29.01
				Total	**2929.81**
B	**Labour**				
1004	Fitter, Grade 1	day	0.25	806.00	201.50
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.45	663.00	298.35
	Total				**661.05**
	Total of A+B Rs.				**3590.86**
	Add 12% GST (MF= 0.1405)				504.52
				Total	**4095.37**
C	Overheads & Profit @ 15%				614.31

	Total	**4709.68**
	Rate of Each	**4709.68**
	Say	**4710.00**

18.15.2 100mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4285	Cost of 100 mm dia CIDF SS Mesh Strainer	Each	1.00	3636.00	3636.00
4353	(b) Cost of 100 mm dia flange	Each	2.00	110.00	220.00
4364	(c) Cost of 4 Nos. Nut Bolt fastner & packing gaskets	LS	1.00	90.00	90.00
4335	(d) Cost of welding rod	Each	1.00	60.00	60.00
				Total	**4006.00**
	Cartage @1% of A				40.06
				Total	**4046.06**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.71	663.00	470.73
	Total				**1034.93**
	Total of A+B Rs.				**5080.99**
	Add 12% GST (MF= 0.1405)				713.88
				Total	**5794.87**
C	Overheads & Profit @ 15%				869.23
	Total				**6664.10**
	Rate of Each				**6664.10**
	Say				**6664.00**

18.15.3 150mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4286	Cost of 150 mm dia CIDF SS Mesh Strainer	Each	1.00	6791.40	6791.40
4354	(b) Cost of 150 mm dia flange	Each	2.00	210.00	420.00
4364	(c) Cost of 4 Nos. Nut Bolt fastner & packing gaskets	LS	1.00	90.00	90.00
4335	(d) Cost of welding rod	Each	1.00	60.00	60.00
				Total	**7361.40**
	Cartage @1% of A				73.61

				Total	**7435.01**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.75	663.00	497.25
	Total				**1061.45**
	Total of A+B Rs.				**8496.46**
	Add 12% GST (MF= 0.1405)				1193.75
				Total	**9690.22**
C	Overheads & Profit @ 15%				1453.53
	Total				**11143.75**
	Rate of Each				**11143.75**
	Say				**11144.00**

18.15.4 200mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4287	Cost of 200 mm dia CIDF SS Mesh Strainer	Each	1.00	14689.80	14689.80
4345	(b) Cost of 200 mm dia flange	Each	2.00	340.00	680.00
4346	(c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	300.00	300.00
4347	(d) Cost of welding rod	Each	1.00	120.00	120.00
				Total	**15789.80**
	Cartage @1% of A				157.90
				Total	**15947.70**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.70	663.00	464.10
	Total				**1028.30**
	Total of A+B Rs.				**16976.00**
	Add 12% GST (MF= 0.1405)				2385.13
				Total	**19361.13**
C	Overheads & Profit @ 15%				2904.17
	Total				**22265.29**
	Rate of Each				**22265.29**
	Say				**22265.00**

18.15.5 250mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4288	Cost of 250 mm dia CIDF SS Mesh Strainer	Each	1.00	18450.90	18450.90
4348	(b) Cost of 250 mm dia flange	Each	2.00	340.00	680.00
4365	(c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	450.00	450.00
4347	(d) Cost of welding rod	Each	1.00	120.00	120.00
				Total	**19700.90**
	Cartage @1% of A				197.01
				Total	**19897.91**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.70	663.00	464.10
	Total				**1028.30**
	Total of A+B Rs.				**20926.21**
	Add 12% GST (MF= 0.1405)				2940.13
				Total	**23866.34**
C	Overheads & Profit @ 15%				3579.95
	Total				**27446.29**
	Rate of Each				**27446.29**
	Say				**27446.00**

18.15.6 300mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4289	Cost of 300 mm dia CIDF SS Mesh Strainer	Each	1.00	25366.50	25366.50
4349	(b) Cost of 300 mm dia flange	Each	2.00	340.00	680.00
4365	(c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets	Each	1.00	450.00	450.00
4347	(d) Cost of welding rod	Each	1.00	120.00	120.00
				Total	**26616.50**
	Cartage @1% of A				266.17
				Total	**26882.67**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.20	806.00	161.20
1007	Khallasi	day	0.70	663.00	464.10

	Total				**1028.30**
	Total of A+B Rs.				**27910.97**
	Add 12% GST (MF= 0.1405)				3921.49
				Total	**31832.46**
C	Overheads & Profit @ 15%				4774.87
	Total				**36607.32**
	Rate of Each				**36607.32**
	Say				**36607.00**

18.16 Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required :

18.16.1 Gun Metal

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4208	Cost of RRL Hose with male female gunmetal coupling	Each	1.00	3861.00	3861.00
		Total			**3861.00**
	Cartage @1% of A				38.61
				Total	**3899.61**
B	**Labour**				
1007	Khallasi	day	0.10	663.00	66.30
	Total				**66.30**
	Total of A+B Rs.				**3965.91**
	Add 12% GST (MF= 0.1405)				557.21
				Total	**4523.12**
C	Overheads & Profit @ 15%				678.47
	Total				**5201.59**
	Rate of Each				**5201.59**
	Say				**5202.00**

18.16.2 Stainless Steel (Grade 304)

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4209	Cost of RRL Hose with male female stainless steel coupling (Grade 304)	Each	1.00	3292.00	3292.00
				Total	**3292.00**
	Cartage @1% of A				32.92
				Total	**3324.92**

B	**Labour**				
1007	Khallasi	day	0.10	663.00	66.30
	Total				**66.30**
	Total of A+B Rs.				**3391.22**
	Add 12% GST (MF= 0.1405)				476.47
				Total	**3867.69**
C	Overheads & Profit @ 15%				580.15
	Total				**4447.84**
	Rate of Each				**4447.84**
	Say				**4448.00**

18.17 Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required.

(a) 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585

(b) 20 mm nominal internal dia gun metal globe valve & nozzle.

(c) Drum and brackets for fixing the equipmets on wall.

(d) Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.

18.17.1 30 m

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4210	(a) Cost of swinging type hose reel complete with 19mm x 30m Thermolplastic hose	Each	1.00	2043.00	2043.00
4212	(b)Hose reel drum	Each	1.00	2350.00	2350.00
4213	(c) Cost of 25mm dia gunmetal gate valve	Each	1.00	691.00	691.00
4355	(d) Cost of 25mm dia socket, union, nipples (Lumpsum)	Each		210.00	210.00
		Total			**5294.00**
	Cartage @1% of A				52.94
				Total	**5346.94**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.25	806.00	201.50
1007	Khallasi	day	1.00	663.00	663.00
	Total				**1267.50**
	Total of A+B Rs.				**6614.44**
	Add 12% GST (MF= 0.1405)				929.33

				Total	**7543.77**
C	Overheads & Profit @ 15%				1131.57
	Total				**8675.33**
	Rate of Each				**8675.33**
	Say				**8675.00**

18.17.2 40 m

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4211	(a) Cost of swinging type hose reel complete with 19mm x 40m Thermolplastic hose	Each	1.00	3232.00	3232.00
4212	(b)Hose reel drum	Each	1.00	2350.00	2350.00
4256	(b) Cost of 25mm dia gunmetel gate valve	Each	1.00	171.00	171.00
4255	(c) Cost of 25mm dia socket, union, nipples (Lumpsum)	Each		2106.00	2106.00
				Total	**7859.00**
	Cartage @1% of A				78.59
				Total	**7937.59**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.25	806.00	201.50
1007	Khallasi	day	1.00	663.00	663.00
	Total				**1267.50**
	Total of A+B Rs.				**9205.09**
	Add 12% GST (MF= 0.1405)				1293.32
				Total	**10498.41**
C	Overheads & Profit @ 15%				1574.76
	Total				**12073.17**
	Rate of Each				**12073.17**
	Say				**12073.00**

18.18 Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required:

18.18.1 Gun metal

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				

4203	Cost of gunmetel short branch pipe	Each	1.00	1758.00	1758.00
		Total			**1758.00**
	Cartage @1% of A				17.58
				Total	**1775.58**
B	**Labour**				
1007	Khallasi	day	0.10	663.00	66.30
	Total				**66.30**
	Total of A+B Rs.				**1841.88**
	Add 12% GST (MF= 0.1405)				258.78
				Total	**2100.66**
C	Overheads & Profit @ 15%				315.10
	Total				**2415.76**
	Rate of Each				**2415.76**
	Say				**2416.00**

18.18.2 Stainless Steel (Grade 304)

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4204	Cost of gunmetel short stainless steel pipe (Grade 304)	Each	1.00	1189.00	1189.00
		Total			**1189.00**
	Cartage @1% of A				11.89
				Total	**1200.89**
B	**Labour**				
1007	Khallasi	day	0.10	663.00	66.30
	Total				**66.30**
	Total of A+B Rs.				**1267.19**
	Add 12% GST (MF= 0.1405)				178.04
				Total	**1445.23**
C	Overheads & Profit @ 15%				216.78
	Total				**1662.01**
	Rate of Each				**1662.01**
	Say				**1662.00**

18.19 Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required:

18.19.1 2 way-100 mm dia M.S. Pipe

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4205	(a)Cost of two way gunmetal FBC connection	Each	1.00	4002.00	4002.00
4329	(b) Cost of 4 Nos. nuts bolts and washers LS	Set	1.00	50.00	50.00
4330	(c) Cost of 1 No. 3mm thick rubber gasket	Each	1.00	70.00	70.00
4331	(d) Cost of 1 No. MS flange as per IS driling 16mm thick LS	Set	1.00	200.00	200.00
4332	(e) Cost of welding rod	Job	1.00	40.00	40.00
		Total			**4362.00**
	Cartage @1% of A				43.62
				Total	**4405.62**
B	**Labour**				
1004	Fitter, Grade 1	day	0.25	806.00	201.50
1087	Welder	day	0.25	806.00	201.50
1007	Khallasi	day	0.50	663.00	331.50
	Total				**734.50**
	Total of A+B Rs.				**5140.12**
	Add 12% GST (MF= 0.1405)				722.19
				Total	**5862.31**
C	Overheads & Profit @ 15%				879.35
	Total				**6741.65**
	Rate of Each				**6741.65**
	Say				**6742.00**

18.19.2 4 way - 150 mm dia M.S. Pipe

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4207	(a)Cost of four way gunmetel FBC connection	Each	1.00	9462.00	9462.00
4329	(b) Cost of 4 Nos. nuts bolts and washers LS	Set	1.00	50.00	50.00
4330	(c) Cost of 1 No. 3mm thick rubber gasket	Each	1.00	70.00	70.00
4331	(d) Cost of 1 No. MS flange as per IS driling 16mm thick LS	Set	1.00	200.00	200.00
4332	(e) Cost of welding rod	Job	1.00	40.00	40.00
				Total	**9822.00**
	Cartage @1% of A				98.22
				Total	**9920.22**

B	**Labour**				
1004	Fitter, Grade 1	day	0.25	806.00	201.50
1087	Welder	day	0.25	806.00	201.50
1007	Khallasi	day	0.50	663.00	331.50
	Total				**734.50**
	Total of A+B Rs.				**10654.72**
	Add 12% GST (MF= 0.1405)				1496.99
				Total	**12151.71**
C	Overheads & Profit @ 15%				1822.76
	Total				**13974.46**
	Rate of Each				**13974.46**
	Say				**13974.00**

18.19.3 3 way - 150 mm dia M.S. Pipe

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4206	(a)Cost of four way gunmetel FBC connection	Each	1.00	6050.00	6050.00
4329	(b) Cost of 4 Nos. nuts bolts and washers LS	Set	1.00	50.00	50.00
4330	(c) Cost of 1 No. 3mm thick rubber gasket	Each	1.00	70.00	70.00
4331	(d) Cost of 1 No. MS flange as per IS driling 16mm thick LS	Set	1.00	200.00	200.00
4332	(e) Cost of welding rod	Job	1.00	40.00	40.00
				Total	**6410.00**
	Cartage @1% of A				64.10
				Total	**6474.10**
B	**Labour**				
1004	Fitter, Grade 1	day	0.25	806.00	201.50
1087	Welder	day	0.25	806.00	201.50
1007	Khallasi	day	0.50	663.00	331.50
	Total				**734.50**
	Total of A+B Rs.				**7208.60**
	Add 12% GST (MF= 0.1405)				1012.81
				Total	**8221.41**
C	Overheads & Profit @ 15%				1233.21
	Total				**9454.62**
	Rate of Each				**9454.62**
	Say				**9455.00**

18.20 Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and paintingwith synthetic enamel paint of approved shade as required.

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4317	Cost of 250mm dia air vessel wit air release valve and 25mm dia gunmetel wheel valve for drainage	Each	1.00	12646.00	12646.00
				Total	**12646.00**
	Cartage @1% of A				126.46
				Total	**12772.46**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.50	806.00	403.00
1007	Khallasi	day	0.50	663.00	331.50
	Total				**1137.50**
	Total of A+B Rs.				**13909.96**
	Add 12% GST (MF= 0.1405)				1954.35
				Total	**15864.31**
C	Overheads & Profit @ 15%				2379.65
	Total				**18243.96**
	Rate of Each				**18243.96**
	Say				**18244.00**

18.21 Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories :

18.21.1 Pendent Sprinkler

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4214	(a) Cost of 68^0 centigrade Pandent Sprinkler	Each	1.00	168.00	168.00
4358	(b) Cost of 15mm dia MS Socket & teflon tape (Lumpsum)	Each	1.00	45.00	45.00
				Total	**213.00**
	Cartage @1% of A				2.13
				Total	**215.13**
B	**Labour**				

1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**397.95**
	Add 12% GST (MF= 0.1405)				55.91
				Total	**453.86**
C	Overheads & Profit @ 15%				68.08
	Total				**521.94**
	Rate of Each				**521.94**
	Say				**522.00**

18.21.2 Upright Sprinkler

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4215	(a) Cost of 68^0 centigrade Upright Sprinkler	Each	1.00	168.00	168.00
4358	(b) Cost of 15mm dia MS Socket & teflon tape (Lumpsum)	Each	1.00	45.00	45.00
				Total	**213.00**
	Cartage @1% of A				2.13
				Total	**215.13**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**397.95**
	Add 12% GST (MF= 0.1405)				55.91
				Total	**453.86**
C	Overheads & Profit @ 15%				68.08
	Total				**521.94**
	Rate of Each				**521.94**
	Say				**522.00**

18.21.3 Horizontal side wall sprinkler

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4216	(a) Cost of 68^0 centigrade Sprinkler	Each	1.00	240.00	240.00

4358	(b) Cost of 15mm dia MS Socket & teflon tape (Lumpsum)	Each	1.00	45.00	45.00
				Total	**285.00**
	Cartage @1% of A				2.85
				Total	**287.85**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**470.67**
	Add 12% GST (MF= 0.1405)				66.13
				Total	**536.80**
C	Overheads & Profit @ 15%				80.52
	Total				**617.32**
	Rate of Each				**617.32**
	Say				**617.00**

18.21.4 Concealed sprinkler

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4217	(a) Cost of adjustable concealed sprinklar	Each	1.00	857.00	857.00
4358	(b) Cost of 15mm dia MS Socket & teflon tape (Lumpsum)	Each	1.00	45.00	45.00
				Total	**902.00**
	Cartage @1% of A				9.02
				Total	**911.02**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**1093.84**
	Add 12% GST (MF= 0.1405)				153.68
				Total	**1247.52**
C	Overheads & Profit @ 15%				187.13
	Total				**1434.65**
	Rate of Each				**1434.65**
	Say				**1435.00**

18.22 Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required.

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4318	Cost of water flow switch	Each	1.00	986.00	986.00
	Cartage @1% of A				9.86
				Total	**995.86**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**1178.68**
	Add 12% GST (MF= 0.1405)				165.60
				Total	**1344.28**
C	Overheads & Profit @ 15%				201.64
	Total				**1545.93**
	Rate of Each				**1545.93**
	Say				**1546.00**

18.23 Providing & fixing flow switch in following sizes M.S. pipe including connection etc as required.

18.23.1 100mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4222	Cost of water flow switch	Each	1.00	4945.00	4945.00
	Cartage @1% of A				49.45
				Total	**4994.45**
B	**Labour**				
1004	Fitter, Grade 1	day	0.250	806.00	201.50
1087	Welder	day	0.250	806.00	201.50
1007	Helper	day	0.500	663.00	331.50
	Total				**734.50**
	Total of A+B Rs.				**5728.95**
	Add 12% GST (MF= 0.1405)				804.92
				Total	**6533.87**
C	Overheads & Profit @ 15%				980.08
	Total				**7513.95**
	Rate of Each				**7513.95**
	Say				**7514.00**

18.23.2 150mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4223	Cost of water flow switch	Each	1.00	6083.00	6083.00
	Cartage @1% of A				60.83
				Total	**6143.83**
B	**Labour**				
1004	Fitter, Grade 1	day	0.250	806.00	201.50
1087	Welder	day	0.250	806.00	201.50
1007	Khallasi	day	0.500	663.00	331.50
	Total				**734.50**
	Total of A+B Rs.				**6878.33**
	Add 12% GST (MF= 0.1405)				966.41
				Total	**7844.74**
C	Overheads & Profit @ 15%				1176.71
	Total				**9021.45**
	Rate of Each				**9021.45**
	Say				**9021.00**

18.24 Providing, fixing, testing & commissioning of installation control valve of cast iron body, brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of follwing sizes as required:

18.24.1 80mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4226	Cost of 80mm dia hydrolic alarm valve with water motor gong	Each	1.00	30777.00	30777.00
	Cartage @1% of A				307.77
				Total	**31084.77**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.50	806.00	403.00
1007	Helper	day	1.00	663.00	663.00

	Total				**1469.00**
	Total of A+B Rs.				**32553.77**
	Add 12% GST (MF= 0.1405)				4573.80
				Total	**37127.57**
C	Overheads & Profit @ 15%				5569.14
	Total				**42696.71**
	Rate of Each				**42696.71**
	Say				**42697.00**

18.24.2 100mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4225	Cost of 100mm dia hydrolic alarm valve with water motor gong	Each	1.00	32517.00	32517.00
	Cartage @1% of A				325.17
				Total	**32842.17**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.50	806.00	403.00
1007	Khallasi	day	1.00	663.00	663.00
	Total				**1469.00**
	Total of A+B Rs.				**34311.17**
	Add 12% GST (MF= 0.1405)				4820.72
				Total	**39131.89**
C	Overheads & Profit @ 15%				5869.78
	Total				**45001.67**
	Rate of Each				**45001.67**
	Say				**45002.00**

18.24.3 150mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4224	Cost of 150mm dia hydraulic alarm wall with water motor gong	Each	1.00	34933.00	34933.00
	Cartage @1% of A				349.33
				Total	**35282.33**
B	**Labour**				
1004	Fitter, Grade 1	day	0.50	806.00	403.00
1087	Welder	day	0.50	806.00	403.00

1007	Khallasi	day	1.00	663.00	663.00
	Total				**1469.00**
	Total of A+B Rs.				**36751.33**
	Add 12% GST (MF= 0.1405)				5163.56
				Total	**41914.89**
C	Overheads & Profit @ 15%				6287.23
	Total				**48202.13**
	Rate of Each				**48202.13**
	Say				**48202.00**

18.25 Supplying, installation, testing & commissioning of sprinkler flexiblepipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of following sizes complete as required.

18.25.1 700mm

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4218	(a) Cost of 700mm flexible drop	Each	1.00	795.00	795.00
4359	(b) Cot of teflon tape	Each	1.00	20.00	20.00
4360	(c) 25mm dia MS Socket	Each	1.00	45.00	45.00
				Total	**860.00**
	Cartage @1% of A				8.60
				Total	**868.60**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**1051.42**
	Add 12% GST (MF= 0.1405)				147.72
				Total	**1199.14**
C	Overheads & Profit @ 15%				179.87
	Total				**1379.01**
	Rate of Each				**1379.01**
	Say				**1379.00**

18.25.2 1000mm

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4219	(a) Cost of 1000mm flexible drop	Each	1.00	945.00	945.00
4359	(b) Cot of teflon tape	Each	1.00	20.00	20.00
4360	(c) 25mm dia MS Socket	Each	1.00	45.00	45.00
				Total	**1010.00**
	Cartage @1% of A				10.10
				Total	**1020.10**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**1202.92**
	Add 12% GST (MF= 0.1405)				169.01
				Total	**1371.93**
C	Overheads & Profit @ 15%				205.79
	Total				**1577.72**
	Rate of Each				**1577.72**
	Say				**1578.00**

18.25.3 1200mm

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4220	(a) Cost of 1200mm flexible drop	Each	1.00	1015.00	1015.00
4359	(b) Cot of teflon tape	Each	1.00	20.00	20.00
4360	(c) 25mm dia MS Socket	Each	1.00	45.00	45.00
				Total	**1080.00**
	Cartage @1% of A				10.80
				Total	**1090.80**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**1273.62**
	Add 12% GST (MF= 0.1405)				178.94
				Total	**1452.56**
C	Overheads & Profit @ 15%				217.88

	Total				**1670.45**
	Rate of Each				**1670.45**
	Say				**1670.00**

18.25.4 1500mm

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4221	(a) Cost of 1500mm flexible drop	Each	1.00	1137.50	1137.50
4359	(b) Cot of teflon tape	Each	1.00	20.00	20.00
4360	(c) 25mm dia MS Socket	Each	1.00	45.00	45.00
				Total	**1202.50**
	Cartage @1% of A				12.03
				Total	**1214.53**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**1397.34**
	Add 12% GST (MF= 0.1405)				196.33
				Total	**1593.67**
C	Overheads & Profit @ 15%				239.05
	Total				**1832.72**
	Rate of Each				**1832.72**
	Say				**1833.00**

18.26 Supplying, installation, testing & commissioning of deluge valve (to be used for water curtains) UL listed with wet pilot basic trim assembly for DVA with test and alarm, drip and drain valve with water motor gong complete as required.

18.26.1 50 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4230	Cost of 50mm dia deluge valve	Each	1.00	60280.00	60280.00
	Cartage @1% of A				602.80
				Total	**60882.80**
B	**Labour**				
1004	Fitter, Grade 1	day	1.00	806.00	806.00
1087	Welder	day	1.00	806.00	806.00

1007	Khallasi	day	1.00	663.00	663.00
	Total				**2275.00**
	Total of A+B Rs.				**63157.80**
	Add 12% GST (MF= 0.1405)				8873.67
				Total	**72031.47**
C	Overheads & Profit @ 15%				10804.72
	Total				**82836.19**
	Rate of Each				**82836.19**
	Say				**82836.00**

18.26.2 80 mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4229	Cost of 80mm dia deluge valve	Each	1.00	60732.00	60732.00
	Cartage @1% of A				607.32
				Total	**61339.32**
B	**Labour**				
1004	Fitter, Grade 1	day	1.00	806.00	806.00
1087	Welder	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	Total				**2275.00**
	Total of A+B Rs.				**63614.32**
	Add 12% GST (MF= 0.1405)				8937.81
				Total	**72552.13**
C	Overheads & Profit @ 15%				10882.82
	Total				**83434.95**
	Rate of Each				**83434.95**
	Say				**83435.00**

18.26.3 100mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4228	Cost of 100mm dia deluge valve	Each	1.00	68238.00	68238.00
	Cartage @1% of A				682.38
				Total	**68920.38**
B	**Labour**				
1004	Fitter, Grade 1	day	1.00	806.00	806.00
1087	Welder	day	1.00	806.00	806.00

1007	Khallasi	day	1.00	663.00	663.00
	Total				**2275.00**
	Total of A+B Rs.				**71195.38**
	Add 12% GST (MF= 0.1405)				10002.95
				Total	**81198.33**
C	Overheads & Profit @ 15%				12179.75
	Total				**93378.08**
	Rate of Each				**93378.08**
	Say				**93378.00**

18.26.4 150mm dia

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4227	Cost of 150mm dia deluge valve	Each	1.00	84888.00	84888.00
	Cartage @1% of A				848.88
				Total	**85736.88**
B	**Labour**				
1004	Fitter, Grade 1	day	1.00	806.00	806.00
1087	Welder	day	1.00	806.00	806.00
1007	Khallasi	day	1.00	663.00	663.00
	Total				**2275.00**
	Total of A+B Rs.				**88011.88**
	Add 12% GST (MF= 0.1405)				12365.67
				Total	**100377.55**
C	Overheads & Profit @ 15%				15056.63
	Total				**115434.18**
	Rate of Each				**115434.18**
	Say				**115434.00**

18.27 Providing, installation, testing & commissioning of water curtain nozzle 15mm dia nickel chrome plated brass, BSPT, K-factor as per design consideration complete as required.

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4231	(a) Cost of water curtain nozzle, nickel chrome plated brass	Each	1.00	313.20	313.20
4361	(b) Cost of MS Socket 15mm dia	Each	1.00	35.00	35.00
				Total	**348.20**
	Cartage @1% of A				3.48

				Total	**351.68**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**534.50**
	Add 12% GST (MF= 0.1405)				75.10
				Total	**609.60**
C	Overheads & Profit @ 15%				91.44
	Total				**701.04**
	Rate of Each				**701.04**
	Say				**701.00**

18.28 Providing, installation, testing & commissioning of electric release trim assembly for deluge wall with two way solelnoid valve, weather proof operation on 24 volts DC supply complete as required.

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				
4232	Cost of electric release solenoide valve	Each	1.00	5382.00	5382.00
	Cartage @1% of A				53.82
				Total	**5435.82**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1087	Welder	day	0.062	806.00	49.97
1007	Khallasi	day	0.125	663.00	82.88
	Total				**182.82**
	Total of A+B Rs.				**5618.64**
	Add 12% GST (MF= 0.1405)				789.42
				Total	**6408.06**
C	Overheads & Profit @ 15%				961.21
	Total				**7369.27**
	Rate of Each				**7369.27**
	Say				**7369.00**

18.29 Providing, installation, testing & commissioning of adjustable rosette plate for 15mm dia in white finish UL Listed or FM approved complete as required.

ICD No.	Descripion	Unit	Qty.	Rate	Amount (₹)
A	**Materials**				

4233	Cost of adjustable rosette plate	Each	1.00	80.00	80.00
	Cartage @1% of A				0.80
				Total	**80.80**
B	**Labour**				
1004	Fitter, Grade 1	day	0.062	806.00	49.97
1007	Khallasi	day	0.062	663.00	41.11
	Total				**91.08**
	Total of A+B Rs.				**171.88**
	Add 12% GST (MF= 0.1405)				24.15
				Total	**196.03**
C	Overheads & Profit @ 15%				29.40
	Total				**225.43**
	Rate of Each				**225.43**
	Say				**225.00**

CHAPTER 19
BEE 5 STAR RATED CEILING FAN WITH BRUSH LESS DIRECT CURRENT (BLDC) MOTOR

19.1. Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.

ICD No.	Description	Unit	Qty	Rate	Amount (₹)
A	**MATERIALS**				
4400	Basic Price for 1200 mm sweep BLDC Ceiling fan i/c all accessories/fittings/ supports etc.	each	1.00	1900	1900
	Cartage @ 1 % of A				19.00
	TOTAL A				**1919.00**
	TOTAL				**1919.00**
	Add 12% GST (MF= 0.1405)				269.62
	TOTAL				**2188.62**
	Overhead & Profit @ 15%				328.29
	TOTAL				**2516.91**
	ITC as per item no. 1.44 of DSR (E&M) 2022				213.00
	TOTAL				**2729.91**
	Say				**2730.00**

APPENDIX-I
BASIC RATE OF LABOUR & HIRE CHARGES

Code No.	DESCRIPTION	Unit	Rate (₹)
1001	Wireman	day	806
1002	Cable jointer	day	806
1003	Lineman	day	806
1004	Fitter, Grade 1	day	806
1005	Fitter, Grade 2	day	734
1006	Painter	day	734
1007	Khallasi	day	663
1008	Carpenter, Grade 1	day	806
1009	Blacksmith, Grade 2	day	734
1010	Mason, Grade 2	day	734
1011	Stone Chiseler	day	734
1012	Beldar/ coolie	day	663
1013	Bhisti	day	663
1014	Excavator	day	663
1015	Stone Breaker	day	734
1016	Mate	day	663
1017	Engineer	day	1500
1018	Highly Skilled	day	876
1019	Electrician	day	806
1020	Electronic Technician	day	806
1021	Technician	day	806
1022	Software Engineer	day	2100
1081	Hire charges for 5 ton truck	day	4000
1082	Hire charges for compressor and spray gun	day	350
1083	Drilling of 46 Nos 12 mm dia holes on G.I. pipe	L.S.	300
1084	Drilling holes	each	6
1085	Solder jointing	each	12
1086	Welding charges	mm	0.5
1087	Welder	day	806

Note:- **1) Labour rates are exclusive of contractor's profit and overheads and are inclusive of days for weekly day of rest.**

2) Hire charges:- These basic charges include cost of services of operating staff and supply of lubricating oil and diesel also etc.

APPENDIX-II
BASIC RATE OF MATERIAL

Note:- These rates are exclusive of Contractor's profit, Overheads and Carriage and any taxes etc.

Code No.	DESCRIPTION	Unit	Rate (₹)
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	18.00
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	28.00
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	42.00
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	63.00
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	106.00
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	164.00
1108	16/0.20 mm (0.5 sqmm) twin core FRLS PVC sheathed, flat flexible copper cable	Metre	20.00
1109	16/0.20 mm (0.5 sqmm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	Metre	21.00
1110	32/0.20 mm (1.0 sqmm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	Metre	13.00
1111	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	Metre	8.00
1112	2 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	Metre	13.00
1113	4 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	Metre	25.00
1114	Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath	Metre	20.00
	CONDUIT (STEEL & PVC) AND ACCESSORIES		
1201	20 mm diA, ISI marked, steel conduit	Metre	73.00
1202	25 mm diA, ISI marked, steel conduit	Metre	93.00
1203	32 mm diA, ISI marked, steel conduit	Metre	130.00
1204	40 mm diA, ISI marked, steel conduit	Metre	218.00
1205	50 mm diA, ISI marked, steel conduit	Metre	285.00
1206	20 mm inspection/ solid bends	Each	24.00
1207	25 mm inspection/ solid bends	Each	32.00
1208	32 mm inspection/ solid bends	Each	60.00
1209	40 mm inspection/ solid bends	Each	85.00
1210	50 mm inspection/ solid bends	Each	160.00
1211	20 mm sockets	Each	8.00
1212	25 mm sockets	Each	9.00

Code No.	Description	Unit	Rate (₹)
1213	32 mm sockets	Each	13.00
1214	40 mm sockets	Each	20.00
1215	50 mm sockets	Each	36.00
1216	20 mm junction box, one way	Each	34.00
1217	20 mm junction box, two way	Each	34.00
1218	20 mm iron staples/ saddles/ screws	Each	8.00
1219	25 mm iron staples/ saddles/ screws	Each	10.00
1220	32 mm iron staples/ saddles/ screws	Each	16.00
1221	40 mm iron staples/ saddles/ screws	Each	19.00
1222	50 mm iron staples/ saddles/ screws	Each	22.00
1224	20 mm diA, ISI marked, PVC conduit	Metre	21.00
1225	25 mm diA, ISI marked, PVC conduit	Metre	29.00
1226	32 mm diA, ISI marked, PVC conduit	Metre	46.00
1227	40 mm diA, ISI marked, PVC conduit	Metre	64.00
1228	50 mm diA, ISI marked, PVC conduit	Metre	97.00
1229	20 mm PVC bends	Each	8.00
1230	25 mm PVC bends	Each	11.00
1231	32 mm PVC bends	Each	18.00
1232	40 mm PVC bends	Each	28.00
1233	50 mm PVC bends	Each	47.00
1234	20 mm PVC couplers	Each	6.00
1235	25 mm PVC couplers	Each	7.00
1236	32 mm PVC couplers	Each	11.00
1237	40 mm PVC couplers	Each	14.00
1238	50 mm PVC couplers	Each	18.00
1239	20 mm PVC junction box, one way	Each	18.00
1240	20 mm PVC junction box, two way	Each	19.00
1241	75 mm X 75 mm X 50 mm PVC box	Each	22.00
	Metal Boxes		
1300	Modular GI box for 2 module	Each	33.00
1301	Modular GI box for 3 module	Each	41.00

Code No.	Description	Unit	Rate (₹)
1302	Modular GI box for 4 module	Each	48.00
1303	Modular GI box for 6 module	Each	74.00
1304	Modular GI box for 8 module	Each	90.00
1305	Modular GI box for 12 module	Each	114.00
1306	75 mm X 75 mm X 60 mm deep metal box	Each	23.00
1307	100 mm X 100 mm X 60 mm deep metal box	Each	35.00
1308	150 mm X 75 mm X 60 mm deep metal box	Each	37.00
1309	150 mm X 150 mm X 60 mm deep metal box	Each	53.00
1310	180 mm X 100 mm X 60 mm deep metal box	Each	45.00
1311	200 mm X 125 mm X 60 mm deep metal box	Each	56.00
1312	200 mm X 150 mm X 60 mm deep metal box	Each	70.00
1313	200 mm X 250 mm X 60 mm deep metal box	Each	90.00
1314	200 mm X 300 mm X 60 mm deep metal box	Each	112.00
1315	250 mm X 300 mm X 60 mm deep metal box	Each	139.00
1316	200 mm X 150 mm X 75 mm deep metal box	Each	76.00
1317	200 mm X 250 mm X 75 mm deep metal box	Each	105.00
1318	200 mm X 150 mm X 100 mm deep metal box	Each	92.00
1319	200 mm X 250 mm X 100 mm deep metal box	Each	119.00
1320	200 mm X 300 mm X 100 mm deep metal box	Each	139.00
1321	250 mm X 300 mm X 100 mm deep metal box	Each	174.00
	WIRING SWITCHES AND ACCESSORIES		
1322	3 mm thick phenolic laminated sheet	sqcm	0.20
1401	Ceiling rose, 3 pin, 5 A ISI marked	Each	20.00
1402	S.P. 5/6 A, one way modular switch, ISI marked	Each	34.00
1403	S.P. 5/6 A, two way modular switch, ISI marked	Each	68.00
1404	S.P. 15/16 A, one way modular switch, ISI marked	Each	74.00
1405	3 pin 5/6 A modular socket outlet, ISI marked	Each	63.00
1406	6 pin 15/16 A modular socket outlet, ISI marked	Each	105.00
1407	Modular bell push, ISI marked	Each	62.00
1408	Stepped type Modular Fan regulator (2 module)	Each	220.00
1409	Telephone Socket outlet modular type	Each	68.00

Code No.	Description	Unit	Rate (₹)
1410	T.V. Socket outlet modular type	Each	68.00
1411	Modular blanking plate	Each	16.00
1412	6 pin 25 amp modular type socket ISI Marked	Each	125.00
1420	Modular base & cover plate for 1 module	Each	42.00
1421	Modular base & cover plate for 2 module	Each	42.00
1422	Modular base & cover plate for 3 module	Each	56.00
1423	Modular base & cover plate for 4 module	Each	61.00
1424	Modular base & cover plate for 6 module	Each	79.00
1425	Modular base & cover plate for 8 module	Each	101.00
1426	Modular base & cover plate for 12 module	Each	147.00
1431	S.P. 5/6 A, one way switch, piano type ISI marked	Each	10.00
1432	S.P. 5/6 A, two way switch, piano type ISI marked	Each	19.00
1433	S.P. 15/16 A, one way switch, piano type ISI marked	Each	48.00
1434	3 pin 5/6 A socket outlet, piano type ISI marked	Each	23.00
1435	6 pin 15/16 & 5/6 A socket outlet, piano type ISI marked	Each	60.00
1436	Bell push, piano type	Each	19.00
1437	Telephone Socket outlet piano type	Each	39.00
1438	T.V. Socket outlet piano type	Each	28.00
1441	Brass pendant holder	Each	34.00
1442	Brass batten/ angle holder	Each	38.00
1443	Brass bracket holder 16 mm	Each	47.00
1444	Call bell/ buzzer, single phase	Each	44.00
1445	PIR Occupancy sensor	Each	3183.00
1446	PIR Occupancy sensor With Day light dimming	Each	6632.00
1447	Microwave occupancy Sensor	Each	8687.00
1448	Astrononical time switch suitable for 1 output per phase and suitable for single phase supply	Each	3022.00
1449	Astrononical time switch suitable for2 output per phase and suitable for single phase supply	Each	6169.00
1450	Astrononical time switch suitable for 3output(1output per phase) and suitable for three phase supply	Each	7709.00
1451	UTP 4 Pair CAT 6 LAN Cable	Metre	28.00
1452	PVC Batten/ Angle Holder	Each	22.00

Code No.	Description	Unit	Rate (₹)
	RISING MAINS BUS TRUNKING AND OVER HEAD BUS-BAR		
1501	200 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	5056.00
1502	300 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	5286.00
1503	400 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	6550.00
1504	600 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	7355.00
1505	800 A, TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	8906.00
1511	16 A, TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	9029.00
1512	16 A, TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	20357.00
1513	16 A, TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	28894.00
1514	16 A, TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	40057.00
1515	32 A, TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	11164.00
1516	32 A, TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	22984.00
1517	32 A, TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	30206.00
1518	32 A, TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	42026.00
1519	63 A, TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	12739.00
1520	63 A, TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	21670.00
1521	63 A, TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	23377.00
1522	63 A, TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	Each	40320.00
1526	200 A, TPN, adaptor box with cable end box, with TPN disconnector FSU, ISI marked HRC fuses and brass compression gland for rising mains	Each	18124.00
1527	300 A, TPN, adaptor box with cable end box, with TPN disconnector FSU, ISI marked HRC fuses and brass compression gland for rising mains	Each	19700.00
1528	400 A, TPN, adaptor box with cable end box, with TPN disconnector FSU, ISI marked HRC fuses and brass compression gland for rising mains	Each	21670.00
1529	600 A, TPN, adaptor box with cable end box, with TPN disconnector FSU, ISI marked HRC fuses and brass compression gland for rising mains	Each	23377.00

Code No.	Description	Unit	Rate (₹)
1530	800 A, TPN, adaptor box with cable end box, with TPN disconnector FSU, ISI marked HRC fuses and brass compression gland for rising mains	Each	26004.00
1531	800 A, TPN, bus trunking with aluminium busbars	Metre	10178.00
1532	1000 A, TPN, bus trunking with aluminium busbars	Metre	12083.00
1533	1250 A, TPN, bus trunking with aluminium busbars	Metre	15498.00
1534	1400 A, TPN, bus trunking with aluminium busbars	Metre	19438.00
1535	1600 A, TPN, bus trunking with aluminium busbars	Metre	19438.00
1536	200 A, TPN, overhead busbars with aluminium busbars	Each	5779.00
1537	400 A, TPN, overhead busbars with aluminium busbars	Each	7486.00
1538	32 A, TPN, plug-in-box with TPN disconnector FSU and ISI marked HRC fuses for overhead busbars	Each	7560.75
1539	63 A, TPN, plug-in-box with TPN disconnector FSU and ISI marked HRC fuses for overhead busbars	Each	8523.00
1540	100 A, TPN, plug-in-box with TPN disconnector FSU and ISI marked HRC fuses for overhead busbars	Each	10535.25
1541	16 A, TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	Each	6000.00
1542	32 A, TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	Each	7560.75
1543	63 A, TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	Each	8523.00
1544	100 A, TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	Each	10535.25
1545	200 A, TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	Each	14005.50
1546	315 A, TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	Each	19124.25
1547	400 A, TPN, one way, tap off box with TPN disconnector FSU and ISI marked HRC fuses for rising mains	Each	21800.25
1551	200 A, TPN, compact type rising mains with aluminium busbar including all accessories	Metre	5610.00
1552	315 A, TPN, compact type rising mains with aluminium busbar including all accessories	Metre	6624.00
1553	400 A, TPN, compact type rising mains with aluminium busbar including all accessories	Metre	7932.00
1554	500 A, TPN, compact type rising mains with aluminium busbar including all accessories	Metre	7932.00
1555	630 A, TPN, compact type rising mains with aluminium busbar including all accessories	Metre	9192.00

Code No.	Description	Unit	Rate (₹)
1556	800 A, TPN, compact type rising mains with aluminium busbar including all accessories	Metre	13620.00
1557	1000 A, TPN, compact type rising mains with aluminium busbar including all accessories	Metre	14124.00
1558	1250 A, TPN, compact type rising mains with aluminium busbar including all accessories	Metre	16842.00
1559	200 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	5666.00
1560	315 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	6690.00
1561	400 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	8011.00
1562	500 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	8011.00
1563	630 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	9284.00
1564	800 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	13756.00
1565	1000 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	13756.00
1566	1250 A, TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	16065.00
1567	200 A, TPN, End Feed Unit for compact rising mains including all accessories	Each	6252.00
1568	315 A, TPN, End Feed Unit for compact rising mains including all accessories	Each	7566.00
1569	400 A, TPN, End Feed Unit for compact rising mains including all accessories	Each	8358.00
1570	500 A, TPN, End Feed Unit for compact rising mains including all accessories	Each	8358.00
1571	630 A, TPN, End Feed Unit for compact rising mains including all accessories	Each	9900.00
1572	800 A, TPN, End Feed Unit for compact rising mains including all accessories	Each	13260.00
1573	1000 A, TPN, End Feed Unit for compact rising mains including all accessories	Each	13260.00
1574	1250 A, TPN, End Feed Unit for compact rising mains including all accessories	Each	14778.00
1575	125 A, TPN, TAP OFF Box for compact rising mains including all accessories	Each	6400.00
1576	200 A, TPN, TAP OFF Box for compact rising mains including all accessories	Each	6400.00
1577	315 A, TPN, TAP OFF Box for compact rising mains including all accessories	Each	7840.00

Code No.	Description	Unit	Rate (₹)
1578	400 A, TPN, TAP OFF Box for compact rising mains including all accessories	Each	7840.00
1579	500 A, TPN, TAP OFF Box for compact rising mains including all accessories	Each	11840.00
1580	630 A, TPN, TAP OFF Box for compact rising mains including all accessories	Each	11840.00
	Sandwich Rising Mains with Aluminium bus bar		
1581	400 A, Isc=25 kA for 1 sec	Metre	11040.00
1582	500 A, Isc=30 kA for 1 sec	Metre	11730.00
1583	630 A, Isc=50 kA for 1 sec	Metre	13950.00
1584	800 A, Isc=50 kA for 1 sec	Metre	15840.00
1585	1000 A, Isc=50 kA for 1 sec	Metre	17700.00
1586	1250 A, Isc=50 kA for 1 sec	Metre	19374.00
1587	1600 A, Isc=50 kA for 1 sec	Metre	23160.00
1588	2000 A, Isc=50 kA for 1 sec	Metre	29760.00
1589	2500 A, Isc=50 kA for 1 sec	Metre	33108.00
1590	3200 A, Isc=50 kA for 1 sec	Metre	41508.00
1591	4000 A, Isc=50 kA for 1 sec	Metre	70839.00
	SWITCH DISCONNECTOR SFU AND MCCB		
1601	32 A, TPN, switch disconnector fuse unit (Panel mounted type) with ISI marked HRC fuses	Each	1443.00
1602	63 A, TPN, switch disconnector fuse unit (Panel mounted type) with ISI marked HRC fuses	Each	2127.00
1603	100 A, TPN, switch disconnector fuse unit (Panel mounted type) with ISI marked HRC fuses	Each	4346.00
1604	125 A, TPN, switch disconnector fuse unit (Panel mounted type) with ISI marked HRC fuses	Each	5151.00
1605	160 A, TPN, switch disconnector fuse unit (Panel mounted type) with ISI marked HRC fuses	Each	5851.00
1606	200 A, TPN switch fuse unit with ISI marked HRC fuses	Each	7009.00
1607	315 A, TPN switch fuse unit with ISI marked HRC fuses	Each	10647.00
1608	400 A, TPN switch fuse unit with ISI marked HRC fuses	Each	13025.00
1610	3 pole MCCB, 100A, 16kA	Each	2644.00
1611	3 pole MCCB, 125A, 16kA	Each	3403.00
1612	3 pole MCCB, 150A, 16kA	Each	4287.00
1613	3 pole MCCB, 200A, 16kA	Each	5541.00
1614	3 pole MCCB, 200A, 25kA	Each	8051.00

Code No.	Description	Unit	Rate (₹)
1615	3 pole MCCB, 250A, 25kA	Each	9522.00
1616	3 pole MCCB, 250A, 35kA	Each	10199.00
1617	3 pole MCCB, 315A, 35kA	Each	15986.00
1618	3 pole MCCB, 400A, 35kA	Each	15986.00
1619	3 pole MCCB, 500A, 35kA	Each	18909.00
1620	3 pole MCCB, 630A, 50kA	Each	20650.00
1621	3 pole MCCB, 800A, 50kA	Each	26915.00
1622	4 pole MCCB,100A,30kA	Each	5623.00
1623	4 pole MCCB, 125A, 36kA	Each	5961.00
1624	4 pole MCCB, 200A, 36kA	Each	11243.00
1625	4 pole MCCB,250A, 36kA	Each	12953.00
1626	4 pole MCCB,250A, 50kA	Each	13633.00
1627	4 pole MCCB,400A, 50kA	Each	31928.00
1628	4 pole MCCB,630A, 50kA	Each	32250.00
	MCB'S, ISOLATORS, RCCB'S AND MCB DB'S		
1705	25 A modular SPMCB, 'C' curve	Each	161.00
1706	6 A, to 32 A, ratings , SP MCB, "C" curve, 10 KA breaking capacity	Each	135.00
1707	6 A, to 32 A, ratings , SPN MCB, "C" curve, 10 KA breaking capacity	Each	394.00
1708	6 A, to 32 A, ratings , DP MCB, "C" curve, 10 KA breaking capacity	Each	437.00
1709	6 A, to 32 A, ratings , TP MCB, "C" curve, 10 KA breaking capacity	Each	702.00
1710	6 A, to 32 A, ratings , TPN MCB, "C" curve, 10 KA breaking capacity	Each	869.00
1711	Single pole, blanking plate	Each	8.00
1712	40 A, 2 pole isolator	Each	270.00
1713	63 A, 2 pole isolator	Each	340.00
1714	40 A, 4 pole isolator	Each	616.00
1715	63 A, 4 pole isolator	Each	664.00
1716	100 A, 4 pole isolator	Each	810.00
1717	25 A, rating, 2 pole RCCB, 30mA	Each	1458.00
1718	40 A, rating, 2 pole RCCB, 30mA	Each	1922.00
1719	63 A, rating, 2 pole RCCB, 30mA	Each	1982.00

Code No.	Description	Unit	Rate (₹)
1720	25 A, rating, 4 pole RCCB, 30mA	Each	1836.00
1721	40 A, rating, 4 pole RCCB, 30mA	Each	2290.00
1722	63 A, rating, 4 pole RCCB, 30mA	Each	2052.00
1723	16/25 A, rating, 2 pole RCBO 100mA/ 300mA sensitivity	Each	0.00
1724	32 A, rating, 2 pole RCBO 100mA/ 300mA sensitivity	Each	0.00
1725	40 A, rating, 2 pole RCBO 100mA/ 300mA sensitivity	Each	0.00
1726	16/25 A, rating, 4 pole RCBO 100mA/ 300mA sensitivity	Each	0.00
1727	32 A, rating, 4 pole RCBO 100mA/ 300mA sensitivity	Each	0.00
1728	40 A, rating, 4 pole RCBO 100mA/ 300mA sensitivity	Each	0.00
1730	20 A, SPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	Each	680.00
1731	20 A, TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	Each	997.00
1732	30 A, TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	Each	2142.00
1734	2+2 way, SPN, single door, MCB DB	Each	820.00
1735	2+4 way, SPN, single door, MCB DB	Each	786.00
1736	2+6 way, SPN, single door, MCB DB	Each	1007.00
1737	2+10 way, SPN, single door, MCB DB	Each	1189.00
1738	6 way, SPN, double door, MCB DB	Each	1347.00
1739	8 way, SPN, double door, MCB DB	Each	1624.00
1740	12 way, SPN, double door, MCB DB	Each	1429.00
1741	14 way, SPN, double door, MCB DB	Each	2053.00
1742	Sheet steel DP MCB enclosure	Each	300.00
1743	Sheet steel TP MCB enclosure	Each	354.00
1751	4 way (4+12), TPN, MCB DB, single door, horizontal type	Each	0.00
1752	6 way (4+18), TPN, MCB DB, single door, horizontal type	Each	0.00
1753	8 way (4+24), TPN, MCB DB, single door, horizontal type	Each	0.00
1754	4 way (4+12), TPN, MCB DB, double door, horizontal type	Each	2712.00
1755	6 way (4+18), TPN, MCB DB, double door, horizontal type	Each	3378.00
1756	8 way (4+24), TPN, MCB DB, double door, horizontal type	Each	4128.00
1757	4 way (4+12), TPN, vertical type, MCB DB, single door	Each	0.00

Code No.	Description	Unit	Rate (₹)
1758	8 way (4+24), TPN, vertical type, MCB DB, single door	Each	0.00
1759	12 way (4+36), TPN, vertical type, MCB DB, single door	Each	0.00
1760	4 way (4+12), TPN, vertical type, MCB DB, double door	Each	5294.00
1761	8 way (4+24), TPN, vertical type, MCB DB, double door	Each	7297.00
1762	12 way (4+36), TPN, vertical type, MCB DB, double door	Each	9311.00
1763	4 way, TPN, vertical type, single door, MCB DB with provision to mount MCCB as incomer	Each	0.00
1764	8 way, TPN, vertical type, single door, MCB DB with with provision to mount MCCB as incomer	Each	0.00
1765	12 way, TPN, vertical type, single door, MCB DB with with provision to mount MCCB as incomer	Each	0.00
1771	2 + 4 way, SPN, prewired MCB DB with extended loose wire box, single door	Each	2494.16
1772	2 + 8 way, SPN, prewired MCB DB with extended loose wire box, single door	Each	2902.76
1773	2 + 12 way, SPN, prewired MCB DB with extended loose wire box, single door	Each	4298.81
1774	2 + 4 way, SPN, prewired MCB DB with extended loose wire box, double door	Each	2809.13
1775	2 + 8 way, SPN, prewired MCB DB with extended loose wire box, double door	Each	3277.31
1776	2 + 12 way, SPN, prewired MCB DB with extended loose wire box, double door	Each	4864.89
1779	4 way, (4+12) TPN, prewired MCB DB with extended loose wire box, single door	Each	0.00
1780	6 way, (4+18) TPN, prewired MCB DB with extended loose wire box, single door	Each	0.00
1781	8 way, (4+24) TPN, prewired MCB DB with extended loose wire box, single door	Each	0.00
1782	12 way, (4+36) TPN, prewired MCB DB with extended loose wire box, single door	Each	0.00
1783	4 way, (4+12) TPN, prewired MCB DB with extended loose wire box, double door	Each	6243.92
1784	6 way, (4+18) TPN, prewired MCB DB with extended loose wire box, double door	Each	7520.79
1785	8 way, (4+24) TPN, prewired MCB DB with extended loose wire box, double door	Each	8652.96
1786	12 way, (4+36) TPN, prewired MCB DB with extended loose wire box, double door	Each	10074.54
1787	4 way (4+4), TPN, vertical type, prewired, MCB DB with extended loose wire box, single door	Each	4490.34

Code No.	Description	Unit	Rate (₹)
1788	6 way (4+6), TPN, vertical type, prewired, MCB DB with extended loose wire box, single door	Each	0.00
1789	8 way (4+8), TPN, vertical type, prewired, MCB DB with extended loose wire box, single door	Each	0.00
1790	12 way (4+12), TPN, vertical type, prewired, MCB DB with extended loose wire box, single door	Each	0.00
1791	4 way (4+4), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	Each	5924.70
1792	6 way (4+6), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	Each	0.00
1793	8 way (4+8), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	Each	0.00
1794	12 way (4+12), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	Each	0.00
	CABLE END BOX		
1801	Cable End Boxes for 6 Way SPN DD DB	Each	371.82
1802	Cable End Boxes for 8 Way SPN DD DB	Each	432.42
1803	Cable End Boxes for 10 Way SPN DD DB	Each	415.89
1804	Cable End Boxes for 14 Way SPN DD DB	Each	484.75
1805	Cable End Boxes for 4 Way TPN DD DB	Each	619.70
1806	Cable End Boxes for 6 Way TPN DD DB	Each	652.75
1807	Cable End Boxes for 8 Way TPN DD DB	Each	815.25
1808	Cable End Boxes for Vertical TPN DD DB	Each	687.60
	BRASS COMPRESSION GLANDS		
2101	Brass compression gland (19 mm) for 2 X 6 sq. mm 1.1 kV grade cable	set	32.25
2102	Brass compression gland (19 mm) for 2 X 10 sq. mm 1.1 kV grade cable	set	32.25
2103	Brass compression gland for (22 mm) 2 X 16 sq. mm 1.1 kV grade cable	set	42.00
2104	Brass compression gland for (22 mm) 2 X 25 sq. mm 1.1 kV grade cable	set	42.00
2105	Brass compression gland for (25 mm) 2 X 35 sq. mm 1.1 kV grade cable	set	49.50
2106	Brass compression gland for (28 mm) 2 X 50 sq. mm 1.1 kV grade cable	set	75.75
2107	Brass compression gland for (22 mm) 3 X 10 sq. mm 1.1 kV grade cable	set	42.00

Code No.	Description	Unit	Rate (₹)
2108	Brass compression gland for (25 mm) 3 X 16 sq. mm 1.1 kV grade cable	set	49.50
2109	Brass compression gland for (25 mm) 3 X 25 sq. mm 1.1 kV grade cable	set	49.50
2110	Brass compression gland for (28 mm) 3 X 35 sq. mm 1.1 kV grade cable	set	75.75
2111	Brass compression gland for (32 mm) 3 X 50 sq. mm 1.1 kV grade cable	set	84.75
2112	Brass compression gland for (35 mm) 3 X 70 sq. mm 1.1 kV grade cable	set	111.00
2113	Brass compression gland for (38 mm) 3 X 95 sq. mm 1.1 kV grade cable	set	139.50
2114	Brass compression gland for (45 mm) 3 X 120 sq. mm 1.1 kV grade cable	set	166.50
2115	Brass compression gland for (50 mm) 3 X 150 sq. mm 1.1 kV grade cable	set	213.75
2116	Brass compression gland for (57 mm) 3 X 185 sq. mm 1.1 kV grade cable	set	273.75
2117	Brass compression gland for (62 mm) 3 X 225 sq. mm 1.1 kV grade cable	set	323.25
2118	Brass compression gland for (62 mm) 3 X 240 sq. mm 1.1 kV grade cable	set	323.25
2119	Brass compression gland for (70 mm) 3 X 300 sq. mm 1.1 kV grade cable	set	386.25
2120	Brass compression gland for (28 mm) 3½ X 25 sq. mm 1.1 kV grade cable	set	75.75
2121	Brass compression gland for (32 mm) 3½ X 35 sq. mm 1.1 kV grade cable	set	84.75
2122	Brass compression gland for (35 mm) 3½ X 50 sq. mm 1.1 kV grade cable	set	111.00
2123	Brass compression gland for (38 mm) 3½ X 70 sq. mm 1.1 kV grade cable	set	139.50
2124	Brass compression gland for (45 mm) 3½ X 95 sq. mm 1.1 kV grade cable	set	166.50
2125	Brass compression gland for (45 mm) 3½ X 120 sq. mm 1.1 kV grade cable	set	166.50
2126	Brass compression gland for (50 mm) 3½ X 150 sq. mm 1.1 kV grade cable	set	213.75
2127	Brass compression gland for (57 mm) 3½ X 185 sq. mm 1.1 kV grade cable	set	273.75
2128	Brass compression gland for (62 mm) 3½ X 225 sq. mm 1.1 kV grade cable	set	323.25
2129	Brass compression gland for (62 mm) 3½ X 240 sq. mm 1.1 kV grade cable	set	323.25

Code No.	Description	Unit	Rate (₹)
2130	Brass compression gland for (70 mm) 3½ X 300 sq. mm 1.1 kV grade cable	set	386.25
2131	Brass compression gland for (82 mm) 3½ X 400 sq. mm 1.1 kV grade cable	set	551.25
2132	Brass compression gland for (25 mm) 4 X 10 sq. mm 1.1 kV grade cable	set	49.50
2133	Brass compression gland for (28 mm) 4 X 16 sq. mm 1.1 kV grade cable	set	75.75
2134	Brass compression gland for (28 mm) 4 X 25 sq. mm 1.1 kV grade cable	set	75.75
2135	Brass compression gland for (32 mm) 4 X 35 sq. mm 1.1 kV grade cable	set	84.75
2136	Brass compression gland for (35 mm) 4 X 50 sq. mm 1.1 kV grade cable	set	111.00
	ALUMINIUM LUGS		
2201	Aluminium lugs for 6 sq. mm cable	Each	1.58
2202	Aluminium lugs for 10 sq. mm cable	Each	2.10
2203	Aluminium lugs for 16 sq. mm cable	Each	3.00
2204	Aluminium lugs for 25 sq. mm cable	Each	4.13
2205	Aluminium lugs for 35 sq. mm cable	Each	4.95
2206	Aluminium lugs for 50 sq. mm cable	Each	7.43
2207	Aluminium lugs for 70 sq. mm cable	Each	11.55
2208	Aluminium lugs for 95 sq. mm cable	Each	12.38
2209	Aluminium lugs for 120 sq. mm cable	Each	17.25
2210	Aluminium lugs for 150 sq. mm cable	Each	22.50
2211	Aluminium lugs for 185 sq. mm cable	Each	27.75
2212	Aluminium lugs for 225 sq. mm cable	Each	39.75
2213	Aluminium lugs for 240 sq. mm cable	Each	48.00
2214	Aluminium lugs for 300 sq. mm cable	Each	67.50
2215	Aluminium lugs for 400 sq. mm cable	Each	97.50
	MV CABLE JOINTING KITS		
2300	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 16 sq. mm 1.1 kV grade cable	set	625.00
2301	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 25 sq. mm 1.1 kV grade cable	set	701.00
2302	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 35 sq. mm 1.1 kV grade cable	set	701.00

Code No.	Description	Unit	Rate (₹)
2303	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 50 sq. mm 1.1 kV grade cable	set	701.00
2304	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 16 sq. mm 1.1 kV grade cable	set	701.00
2305	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 25 sq. mm 1.1 kV grade cable	set	701.00
2306	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 35 sq. mm 1.1 kV grade cable	set	701.00
2307	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 50 sq. mm 1.1 kV grade cable	set	771.00
2308	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 70 sq. mm 1.1 kV grade cable	set	771.00
2309	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 95 sq. mm 1.1 kV grade cable	set	878.00
2310	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 120 sq. mm 1.1 kV grade cable	set	878.00
2311	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 150 sq. mm 1.1 kV grade cable	set	878.00
2312	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 185 sq. mm 1.1 kV grade cable	set	1326.00
2313	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 225 sq. mm 1.1 kV grade cable	set	1326.00
2314	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 240 sq. mm 1.1 kV grade cable	set	1604.00
2315	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 300 sq. mm 1.1 kV grade cable	set	1604.00
2316	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 25 sq. mm 1.1 kV grade cable	set	701.00
2217	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 35 sq. mm 1.1 kV grade cable	set	771.00
2318	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 50 sq. mm 1.1 kV grade cable	set	771.00
2319	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 70 sq. mm 1.1 kV grade cable	set	878.00
2320	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 95 sq. mm 1.1 kV grade cable	set	878.00
2321	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 120 sq. mm 1.1 kV grade cable	set	878.00
2322	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 150 sq. mm 1.1 kV grade cable	set	1326.00
2323	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 185 sq. mm 1.1 kV grade cable	set	946.00
2324	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 225 sq. mm 1.1 kV grade cable	set	1604.00

Code No.	Description	Unit	Rate (₹)
2325	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 240 sq. mm 1.1 kV grade cable	set	1604.00
2326	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 300 sq. mm 1.1 kV grade cable	set	1604.00
2327	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 400 sq. mm 1.1 kV grade cable	set	1931.00
2328	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 16 sq. mm 1.1 kV grade cable	set	701.00
2329	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 25 sq. mm 1.1 kV grade cable	set	701.00
2330	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 35 sq. mm 1.1 kV grade cable	set	771.00
2331	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 50 sq. mm 1.1 kV grade cable	set	771.00
2332	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 16 sq. mm 1.1 kV grade cable	set	1654.00
2333	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 25 sq. mm 1.1 kV grade cable	set	1654.00
2334	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 35 sq. mm 1.1 kV grade cable	set	1654.00
2335	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 50 sq. mm 1.1 kV grade cable	set	1931.00
2336	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 16 sq. mm 1.1 kV grade cable	set	1931.00
2337	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 25 sq. mm 1.1 kV grade cable	set	1654.00
2338	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 35 sq. mm 1.1 kV grade cable	set	1654.00
2339	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 50 sq. mm 1.1 kV grade cable	set	1931.00
2340	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 70 sq. mm 1.1 kV grade cable	set	2310.00
2341	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 95 sq. mm 1.1 kV grade cable	set	2373.00
2342	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 120 sq. mm 1.1 kV grade cable	set	2714.00
2343	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 150 sq. mm 1.1 kV grade cable	set	2714.00
2344	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 185 sq. mm 1.1 kV grade cable	set	3307.00
2345	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 225 sq. mm 1.1 kV grade cable	set	3799.00
2346	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 240 sq. mm 1.1 kV grade cable	set	3799.00

Code No.	Description	Unit	Rate (₹)
2347	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 300 sq. mm 1.1 kV grade cable	set	4783.00
2348	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 25 sq. mm 1.1 kV grade cable	set	1931.00
2349	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 35 sq. mm 1.1 kV grade cable	set	1931.00
2350	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 50 sq. mm 1.1 kV grade cable	set	2310.00
2351	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 70 sq. mm 1.1 kV grade cable	set	2333.00
2352	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 95 sq. mm 1.1 kV grade cable	set	2714.00
2353	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 120 sq. mm 1.1 kV grade cable	set	3307.00
2354	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 150 sq. mm 1.1 kV grade cable	set	3307.00
2355	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 185 sq. mm 1.1 kV grade cable	set	3799.00
2356	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 225 sq. mm 1.1 kV grade cable	set	3875.00
2357	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 240 sq. mm 1.1 kV grade cable	set	4783.00
2358	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 300 sq. mm 1.1 kV grade cable	set	5730.00
2359	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 400 sq. mm 1.1 kV grade cable	set	3076.00
2360	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 16 sq. mm 1.1 kV grade cable	set	1654.00
2361	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 25 sq. mm 1.1 kV grade cable	set	1931.00
2362	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 35 sq. mm 1.1 kV grade cable	set	1931.00
2363	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 50 sq. mm 1.1 kV grade cable	set	2310.00
2364	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 16 sq. mm 1.1 kV grade cable	set	1272.75
2365	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 25 sq. mm 1.1 kV grade cable	set	1506.75
2366	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 35 sq. mm 1.1 kV grade cable	set	1506.75
2367	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 50 sq. mm 1.1 kV grade cable	set	1506.75
2368	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 16 sq. mm 1.1 kV grade cable	set	1272.75

Code No.	Description	Unit	Rate (₹)
2369	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 25 sq. mm 1.1 kV grade cable	set	1506.75
2370	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 35 sq. mm 1.1 kV grade cable	set	1506.75
2371	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 50 sq. mm 1.1 kV grade cable	set	1506.75
2372	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 70 sq. mm 1.1 kV grade cable	set	2175.00
2373	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 95 sq. mm 1.1 kV grade cable	set	2175.00
2374	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 120 sq. mm 1.1 kV grade cable	set	2946.00
2375	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 150 sq. mm 1.1 kV grade cable	set	2946.00
2376	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 185 sq. mm 1.1 kV grade cable	set	2946.00
2377	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 225 sq. mm 1.1 kV grade cable	set	3233.25
2378	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 240 sq. mm 1.1 kV grade cable	set	3233.25
2379	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 300 sq. mm 1.1 kV grade cable	set	3882.75
2380	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 25 sq. mm 1.1 kV grade cable	set	1506.75
2381	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 35 sq. mm 1.1 kV grade cable	set	1506.75
2382	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 50 sq. mm 1.1 kV grade cable	set	1506.75
2383	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 70 sq. mm 1.1 kV grade cable	set	2175.00
2384	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 95 sq. mm 1.1 kV grade cable	set	2175.00
2385	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 120 sq. mm 1.1 kV grade cable	set	2946.00
2386	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 150 sq. mm 1.1 kV grade cable	set	2946.00
2387	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 185 sq. mm 1.1 kV grade cable	set	2946.00
2388	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 225 sq. mm 1.1 kV grade cable	set	3233.25
2389	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 240 sq. mm 1.1 kV grade cable	set	3233.25

Code No.	Description	Unit	Rate (₹)
2390	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 300 sq. mm 1.1 kV grade cable	set	3882.75
2391	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 400 sq. mm 1.1 kV grade cable	set	5286.00
2392	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 16 sq. mm 1.1 kV grade cable	set	1272.75
2393	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 25 sq. mm 1.1 kV grade cable	set	1506.75
2394	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 35 sq. mm 1.1 kV grade cable	set	2175.00
2395	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 50 sq. mm 1.1 kV grade cable	set	2175.00
	11 kV & 33 kV CABLE JOINTING KITS		
2413	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	839.00
2414	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	839.00
2415	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	1225.00
2416	Indoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm.	1225	1270.00
2417	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	2873.00
2418	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	2911.00
2419	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	3296.00
2420	Outdoor cable jointing kit with cast resin compound with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	3296.00
2421	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	2253.00
2422	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	2714.00
2423	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	4294.00
2424	Straight through cable jointing kit with cast resin compound with ferrules for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	5088.00
2437	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	8468.20
2438	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	10135.45
2439	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	10811.45

Code No.	Description	Unit	Rate (₹)
2440	Indoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	10811.45
2441	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	13048.10
2442	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	14009.45
2443	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	15753.40
2444	Outdoor heat shrinkable cable jointing kit with lugs for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	15753.40
2445	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 70 sq. mm.	set	20834.45
2446	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 120 sq. mm.	set	27585.35
2447	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 240 sq. mm.	set	30169.75
2448	Straight through heat shrinkable cable jointing kit with ferrules for 11 kV grade XLPE cable for 3 core 300 sq. mm.	set	30169.75
2528	Indoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 70 sq. mm.	set	14249.95
2529	Indoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 120 sq. mm.	set	21548.15
2530	Indoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 240 sq. mm.	set	24375.00
2531	Outdoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 70 sq. mm.	set	23099.70
2532	Outdoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 120 sq. mm.	set	29940.95
2533	Outdoor heat shrinkable cable jointing kit with lugs for 33 kV grade XLPE cable for 3 core 240 sq. mm.	set	52629.20
2534	Straight through heat shrinkable cable jointing kit with ferrules for 33 kV grade XLPE cable for 3 core 70 sq. mm.	set	40671.80
2535	Straight through heat shrinkable cable jointing kit with ferrules for 33 kV grade XLPE cable for 3 core 120 sq. mm.	set	51398.10
2536	Straight through heat shrinkable cable jointing kit with ferrules for 33 kV grade XLPE cable for 3 core 240 sq. mm.	set	72995.00
	OVER HEAD LINE ACCESSORIES		
2601	Stay rod (1.8 M long, 19/20 mm diA,) with anchor plate 45 cm X 45 cm X 7.5 mm complete with thimble etc.	set	432.00
2602	Stay wire (7/4.00 mm diA,)	kg	37.00

Code No.	Description	Unit	Rate (₹)
2603	Stay wire (7/3.15 mm diA,)	kg	37.00
2604	Turn buckle (20 mm X 60 cm)	Each	158.00
2605	Strain insulator	Each	158.00
2606	Bow tightner	Each	16.00
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	set	29.00
2608	Shackle insulator (100 mm X110 mm) with G.I. bolts and nuts	set	50.00
2609	Pin insulator (100 mm X 65 mm) with G.I. spindle and nuts	set	50.00
2610	Pin insulator (100 mm X 80 mm) with G.I. spindle and nuts	set	50.00
2611	MV horn gap lightning arrestor with pin insulator (100 mm X 65 mm), spindle and brass metal parts etc.	set	79.20
2615	15 A aerial fuse complete with porcelain tube as required	Each	13.00
2616	30 A aerial fuse complete with porcelain tube as required	Each	20.00
2618	Stay clamp	set	50.40
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	Metre	169.00
2620	Angle iron bracket (50 mm X 50 mm X 6 mm) 65 cm long	Each	111.60
2623	Eye hook	Each	23.75
2624	Guy clamp	Each	54.00
2635	D' iron clamp (with coach screws)	Each	61.20
2643	Strain insulator 11 kV	Each	18.40
2644	Strain insulator 33 kV	Each	27.20
2645	11 kV pin insulator with pin washers and nuts	set	90.40
2646	11 kV disc insulator	set	404.80
2647	Galvanised insulator hardware fitting ball and socket type with strain clamp, bolts, nuts and washers	set	118.80
2648	33 kV pin insulator with pin washers and nuts	set	404.80
2649	Galvanised insulator hardware fitting ball and socket type with strain clamp , bolts, nuts and washers for 3 Nos 11 kV disk insulator	set	347.00
2650	3 piece lightning arrestor set for 11 kV O.H. lines complete with G.I. clamp bolts and nuts with washers	set	1620.00
2651	Single piece lightning arrestor set for 33 kV O.H. lines complete with G.I. clamp bolts and nuts with washers	set	12600.00
2665	G.I. strap for shackle insulator	set	43.20

Code No.	Description	Unit	Rate (₹)
	CABLE TRAYS		
2701	MS perforated cable tray painted with powder coating 100 X 50 X 1.6 mm	Metre	157.50
2702	MS perforated cable tray painted with powder coating 150 X 50 X 1.6 mm	Metre	196.50
2703	MS perforated cable tray painted with powder coating 225 X 50 X 1.6 mm	Metre	255.50
2704	MS perforated cable tray painted with powder coating 300 X 50 X 1.6 mm	Metre	314.50
2705	MS perforated cable tray painted with powder coating 375 X 50 X 2 mm	Metre	467.00
2706	MS perforated cable tray painted with powder coating 450 X 50 X 2 mm	Metre	540.50
2707	MS perforated cable tray painted with powder coating 600 X 50 X 2 mm	Metre	688.00
2708	MS perforated cable tray painted with powder coating 300 X 62.5 X 2 mm	Metre	417.50
2709	MS perforated cable tray painted with powder coating 375 X 62.5 X 2 mm	Metre	491.50
2710	MS perforated cable tray painted with powder coating 450 X 62.5 X 2 mm	Metre	565.00
2711	MS perforated cable tray painted with powder coating 600 X 62.5 X 2 mm	Metre	712.50
2712	MS perforated cable tray painted with powder coating 750 X 62.5 X 2 mm	Metre	859.50
2713	MS perforated cable tray painted with powder coating 900 X 62.5 X 2 mm	Metre	1007.00
2714	MS perforated cable tray painted with powder coating 600 X 75 X 2 mm	Metre	737.00
2715	MS perforated cable tray painted with powder coating 750 X 75 X 2 mm	Metre	869.50
2716	MS perforated cable tray painted with powder coating 900 X 75 X 2 mm	Metre	1032.00
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	Each	30.00
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	Each	39.00
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	Each	40.00
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	Each	40.00
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	Each	44.00
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	Each	51.00
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	Each	56.00
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	Each	44.00
2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	Each	50.00

Code No.	Description	Unit	Rate (₹)
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	Each	55.00
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	Each	61.00
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	Each	67.00
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	Each	71.00
2733	MS perforated cable tray Bend 100 X 50 X 1.6 mm	Each	409.50
2734	MS perforated cable tray Bend 150 X 50 X 1.6 mm	Each	510.90
2735	MS perforated cable tray Bend 225 X 50 X 1.6 mm	Each	664.30
2736	MS perforated cable tray Bend 300 X 50 X 1.6 mm	Each	817.70
2737	MS perforated cable tray Bend 375 X 50 X 2 mm	Each	1214.20
2738	MS perforated cable tray Bend 450 X 50 X 2 mm	Each	1405.30
2739	MS perforated cable tray Bend 600 X 50 X 2 mm	Each	1788.80
2740	MS perforated cable tray Bend 300 X 62.5 X 2 mm	Each	1085.50
2741	MS perforated cable tray Bend 375 X 62.5 X 2 mm	Each	1277.90
2742	MS perforated cable tray Bend 450 X 62.5 X 2 mm	Each	1469.00
2743	MS perforated cable tray Bend 600 X 62.5 X 2 mm	Each	1852.50
2744	MS perforated cable tray Bend 750 X 62.5 X 2 mm	Each	2234.70
2745	MS perforated cable tray Bend 900 X 62.5 X 2 mm	Each	2618.20
2746	MS perforated cable tray Bend 600 X 75 X 2 mm	Each	1916.20
2747	MS perforated cable tray Bend 750 X 75 X 2 mm	Each	2299.70
2748	MS perforated cable tray Bend 900 X 75 X 2 mm	Each	2683.20
2749	MS perforated cable tray Reducer 100 X 50 X 1.6 mm	Each	511.55
2750	MS perforated cable tray Reducer 150 X 50 X 1.6 mm	Each	638.30
2751	MS perforated cable tray Reducer 225 X 50 X 1.6 mm	Each	830.05
2752	MS perforated cable tray Reducer 300 X 50 X 1.6 mm	Each	1021.80
2753	MS perforated cable tray Reducer 375 X 50 X 2 mm	Each	1517.75
2754	MS perforated cable tray Reducer 450 X 50 X 2 mm	Each	1756.30
2755	MS perforated cable tray Reducer 600 X 50 X 2 mm	Each	2236.00
2756	MS perforated cable tray Reducer 300 X 62.5 X 2 mm	Each	1356.55
2757	MS perforated cable tray Reducer 375 X 62.5 X 2 mm	Each	1597.05
2758	MS perforated cable tray Reducer 450 X 62.5 X 2 mm	Each	1836.25
2759	MS perforated cable tray Reducer 600 X 62.5 X 2 mm	Each	2315.30
2760	MS perforated cable tray Reducer 750 X 62.5 X 2 mm	Each	2793.05
2761	MS perforated cable tray Reducer 900 X 62.5 X 2 mm	Each	3272.75
2762	MS perforated cable tray Reducer 600 X 75 X 2 mm	Each	2395.25
2763	MS perforated cable tray Reducer 750 X 75 X 2 mm	Each	2874.30
2764	MS perforated cable tray Reducer 900 X 75 X 2 mm	Each	3354.00
2765	MS perforated cable tray Tee 100 X 50 X 1.6 mm	Each	511.55
2766	MS perforated cable tray Tee 150 X 50 X 1.6 mm	Each	638.30
2767	MS perforated cable tray Tee 225 X 50 X 1.6 mm	Each	830.05
2768	MS perforated cable tray Tee 300 X 50 X 1.6 mm	Each	1021.80
2769	MS perforated cable tray Tee 375 X 50 X 2 mm	Each	1517.75
2770	MS perforated cable tray Tee 450 X 50 X 2 mm	Each	1756.30
2771	MS perforated cable tray Tee 600 X 50 X 2 mm	Each	2236.00

Code No.	Description	Unit	Rate (₹)
2772	MS perforated cable tray Tee 300 X 62.5 X 2 mm	Each	1356.55
2773	MS perforated cable tray Tee 375 X 62.5 X 2 mm	Each	1597.05
2774	MS perforated cable tray Tee 450 X 62.5 X 2 mm	Each	1836.25
2775	MS perforated cable tray Tee 600 X 62.5 X 2 mm	Each	2315.30
2776	MS perforated cable tray Tee 750 X 62.5 X 2 mm	Each	2793.05
2777	MS perforated cable tray Tee 900 X 62.5 X 2 mm	Each	3272.75
2778	MS perforated cable tray Tee 600 X 75 X 2 mm	Each	2395.25
2779	MS perforated cable tray Tee 750 X 75 X 2 mm	Each	2874.30
2780	MS perforated cable tray Tee 900 X 75 X 2 mm	Each	3354.00
2781	MS perforated cable tray Cross member 100 X 50 X 1.6 mm	Each	614.25
2782	MS perforated cable tray Cross member 150 X 50 X 1.6 mm	Each	766.35
2783	MS perforated cable tray Cross member 225 X 50 X 1.6 mm	Each	996.45
2784	MS perforated cable tray Cross member 300 X 50 X 1.6 mm	Each	1226.55
2785	MS perforated cable tray Cross member 375 X 50 X 2 mm	Each	1821.30
2786	MS perforated cable tray Cross member 450 X 50 X 2 mm	Each	2107.95
2787	MS perforated cable tray Cross member 600 X 50 X 2 mm	Each	2683.20
2788	MS perforated cable tray Cross member 300 X 62.5 X 2 mm	Each	1628.25
2789	MS perforated cable tray Cross member 375 X 62.5 X 2 mm	Each	1916.85
2790	MS perforated cable tray Cross member 450 X 62.5 X 2 mm	Each	2203.50
2791	MS perforated cable tray Cross member 600 X 62.5 X 2 mm	Each	2778.75
2792	MS perforated cable tray Cross member 750 X 62.5 X 2 mm	Each	3352.05
2793	MS perforated cable tray Cross member 900 X 62.5 X 2 mm	Each	3927.30
2794	MS perforated cable tray Cross member 600 X 75 X 2 mm	Each	2874.30
2795	MS perforated cable tray Cross member 750 X 75 X 2 mm	Each	3449.55
2796	MS perforated cable tray Cross member 900 X 75 X 2 mm	Each	4024.80
	ANGLE/FLAT IRON AND STEEL SHEET		
2801	MS Suspender 6 mm dia 0.75m long	Each	23.00
2802	MS Suspender 8 mm dia 0.75m long	Each	28.00
2803	MS Suspender 10 mm dia 0.75m long	Each	40.00
2804	25 mm X 25 mm X 3 mm angle iron	kg	56.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	56.00
2806	35 mm X 35 mm X 5 mm angle iron	kg	56.00
2807	50 mm X 50 mm X 6 mm angle iron	kg	56.00
2808	65 mm X 65 mm X 6 mm angle iron	kg	56.00
2809	20/25 mm X 3 mm flat iron	kg	56.00
2810	25 mm X 4 mm flat iron	kg	56.00
2811	25 mm X 6 mm flat iron	kg	56.00
2812	40 mm X 3 mm flat iron	kg	56.00
2813	50 mm X 6 mm flat iron	kg	56.00
2814	50 mm X 8 mm flat iron	kg	56.00

Code No.	Description	Unit	Rate (₹)
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr)	kg	56.00
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)	kg	56.00
2817	1.6 mm thick M.S. sheet	kg	56.00
2818	3 mm thick M.S. sheet	kg	56.00
	GI AND RCC PIPE		
2819	20 mm dia G.I. Pipe (light class)	Metre	171.60
2820	32 mm dia G.I. Pipe (light class)	Metre	282.60
2821	50 mm dia G.I. Pipe (light class)	Metre	458.80
2822	80 mm dia G.I. Pipe (light class)	Metre	715.80
2823	100 mm dia G.I. Pipe (light class)	Metre	1036.80
2824	15 mm diA, G.I. pipe (medium class)	Metre	151.20
2825	20 mm diA, G.I. pipe (medium class)	Metre	190.20
2826	40 mm diA, G.I. pipe (medium class)	Metre	383.40
2827	15 mm diA, G.I. pipe (heavy class)	Metre	169.20
2828	20 mm diA, G.I. pipe (heavy class)	Metre	213.60
2829	Check nut 20mm	Each	6.30
2831	32 mm diA, G.I. pipe (medium class)	Metre	334.80
2832	50 mm diA, G.I. pipe (medium class)	Metre	538.20
2833	80 mm diA, G.I. pipe (medium class)	Metre	871.20
2834	100 mm diA, G.I. pipe (medium class)	Metre	1260.00
2835	150 mm diA, G.I. pipe (medium class)	Metre	1965.00
2836	40 mm to 20 mm reducer	Each	36.00
2837	Nipple 50 mm dia	Each	67.50
2838	40 mm diA, G.I. bend (medium class)	Each	61.20
2839	50 mm diA, G.I. bend (medium class)	Each	94.35
2841	100 mm dia RCC pipe NP2 class	Metre	210.00
2842	150 mm dia RCC pipe NP2 class	Metre	220.00
2843	250 mm dia RCC pipe NP2 class	Metre	365.00
2844	300 mm dia RCC pipe NP2 class	Metre	450.00
2845	100 mm dia RCC collar NP2 class	Each	31.50
2846	150 mm dia RCC collar NP2 class	Each	33.30
2847	250 mm dia RCC collar NP2 class	Each	49.50
2848	300 mm dia RCC collar NP2 class	Each	3.00
	SCREWS, NUT BOTS AND OTHER ACCESSORIES		
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	Each	0.90
2852	Iron screws, 35 mm X 6 mm	Each	1.80
2853	Iron screws, 40 mm X 6 mm	Each	1.80
2854	Iron screws, 45 mm X 6 mm	Each	1.80

Code No.	Description	Unit	Rate (₹)
2855	Steel fastener 6 mm X 75 mm	Each	7.20
2856	Steel fastener 8 mm X 75 mm	Each	10.80
2857	PVC fastener 40mm long	Each	0.90
2858	PVC clip for fixing cable	Each	0.45
2859	Rubber/ PVC bushes	Each	0.90
2860	6 mm dia rivet/ stud/ bolts and nuts	Each	4.50
2861	25mm X 3mm bolts & nuts	Each	3.60
2862	32mm X 8mm bolts & nuts	Each	5.40
2863	38mm X 10mm bolts & nuts	Each	9.00
2864	38 mm X 7 mm, bolts and nuts	Each	7.20
2865	15 mm long X 6 mm dia G.I. bolts and nuts	Each	5.40
2866	10 mm X 25 mm long G.I. bolt with nut etc	Each	10.80
2867	16 mm X 50 mm bolts and nuts with washers	set	9.00
2868	16 mm X 40 mm bolts and nuts with washers	set	9.00
2869	16 mm X 125 mm bolts and nuts with washers	set	21.60
2870	16 mm X 150 mm bolts and nuts with washers	set	25.20
2871	10 mm X 25 mm long tinned brass bolt with nut etc.	Each	31.50
2881	GI saddles 19mm x 0.55mm for conduit	Each	1.80
2882	GI saddles 25mm x 0.90mm for conduit above 25mm	Each	1.80
	HDPE PIPE		
2891	63 mm dia	Metre	78.00
2892	90 mm dia	Metre	108.00
2893	120 mm dia	Metre	156.00
2894	160 mm dia	Metre	228.00
2895	200 mm dia	Metre	360.00
	HDPE PIPE COUPLER		
2896	63 mm dia	Each	16.00
2897	90 mm dia	Each	72.00
2898	120 mm dia	Each	84.00
2899	160 mm dia	Each	168.00
2900	200 mm dia	Each	234.00
2901	20 mm X 3 mm copper tape (0.533 kg/mtr)	kg	612.00
2902	25 mm X 5 mm copper tape (1.15 kg/mtr)	kg	612.00
2903	32 mm X 6 mm copper tape (1.705 kg/mtr)	kg	612.00
2904	8 SWG copper wire (4.0 mm dia)	kg	630.00
2905	600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)	Each	6426.00
2906	Copper saddle	Each	36.00
2907	50 mm X 5mm copper strip (2.30 kg/mtr)	kg	612.00
2908	Brass nipple	Each	13.50

Code No.	Description	Unit	Rate (₹)
2909	Lightning finial, 25 mm dia X 300 mm long, copper	Each	585.00
2910	Lightning finial, 25 mm dia X 300 mm long, G.I.	Each	135.00
2911	20 mm X 3 mm G.I. Tape (0.461 kg/mtr)	kg	72.00
2912	25 mm X 5 mm G.I. strip (1.0 kg/mtr)	kg	63.00
2913	25 mm X 6 mm G.I. strip (1.2 kg/mtr)	kg	58.50
2914	32 mm X 6 mm G.I. Tape (1.475 kg/mtr)	kg	58.50
2915	600 mm X 600 mm X 6 mm thick G.I. plate	Each	1620.00
2916	6 SWG G.I. wire	kg	63.00
2917	GI saddle 20mm x 3mm	Each	3.60
2918	Funnel	Each	22.50
2919	G.I. nuts and through bolts with washer	Each	31.50
2920	Washers	Each	0.00
2921	G.I. Hooks made of 8 SWG GI wire/ GI clip	Each	3.60
2922	CI/MS cover plate hinged to FRLSame with Locking arrangement	Each	315.00
2923	Pulley of 50 mm dia	Each	90.00
2924	clamp, bolts, nuts etc.	set	117.00
2925	Flat iron clamp (50 mm X 6 mm) for G.I. pipe	Each	45.00
2926	G.I. plate (10 cm X 10 cm X 5 mm)	kg	67.50
2927	Ball and socket	Each	22.50
2928	Back plate	Each	9.00
2929	Check nut 20mm	Each	5.40
2930	Rubber reel, nut & bolts with washers and safety pin	Set	67.50
2931	PVC sleeve	Metre	7.20
2932	250 mm X 200 mm H.T. danger notice plate	Each	72.00
2933	200 mm X 150 mm M.V. danger notice plate	Each	54.00
2934	Earthing thimbles and solder	L.S.	18.00
2935	Cement, paint, sand etc.	L.S.	7.20
2936	Painting with primer and finish paint	L.S.	7.20
2937	Diesel	litre	81.00
2938	Cotton waste, cleaning cloth etc.	kg	49.50
2939	Cleaning materials like soap/ detergent	kg	54.00
2940	Tin solder etc.	L.S.	7.20
2941	Charcoal	kg	9.00
2942	Coke	kg	13.50
2943	Salt	kg	10.80
2944	Paint	litre	180.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	Each	5.40

Code No.	Description	Unit	Rate (₹)
2946	Fine sand	cum	900.00
2947	Bricks ballast	cum	675.00
2948	Cement	ton	7200.00
2949	Stone aggregate (single size) 40mm nominal size	cum	1350.00
2950	Stone aggregate (single size) 20mm nominal size	cum	1620.00
2951	Stone aggregate (single size) 10mm nominal size	cum	1620.00
2952	Coarse sand (Zone III)	cum	1710.00
9999	Sundries/bending charges	L.S.	2.70
	HVAC Items		
	The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm diA, and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.		
3001	M.S. Pipe 400 mm dia,	Metre	10269.70
3002	M.S. Pipe 350 mm dia,	Metre	5026.00
3003	M.S. Pipe 300 mm dia,	Metre	4369.40
3004	M.S. Pipe 250mm dia,	Metre	3684.10
3005	M.S. Pipe 200mm dia,	Metre	2936.50
3006	M.S. Pipe 150mm dia,	Metre	1815.80
3007	M.S. Pipe 125mm dia,	Metre	1526.00
3008	M.S. Pipe 100mm dia,	Metre	1237.60
3009	M.S. Pipe 80mm dia,	Metre	848.40
3010	M.S. Pipe 65mm dia,	Metre	679.00
3011	M.S. Pipe 50 mm dia,	Metre	531.30
3012	M.S. Pipe 40 mm dia,	Metre	376.60
3013	M.S. Pipe 32 mm dia	Metre	326.20
3014	M.S. Pipe 25 mm dia	Metre	255.50
3023	Pipe aluminium Cladding 0.63mm	sqmtr	360.00
	BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified		
3024	200 mm dia	Each	9777.00
3025	150mm dia,	Each	4306.80
3026	125mm dia,	Each	3814.20
3027	100mm dia,	Each	3060.60
3028	80mm dia,	Each	2387.40
3029	65mm dia,	Each	2178.60
3030	50mm dia,	Each	2019.60
3031	40mm dia,	Each	1764.00

Code No.	Description	Unit	Rate (₹)
	BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.		
3032	200 mm dia	Each	50680.00
3033	150mm dia	Each	24320.00
3034	125mm dia	Each	18280.00
3035	100mm dia	Each	13320.00
3036	80mm dia	Each	9200.00
3037	65 mm dia	Each	8120.00
3038	50mm dia	Each	7040.00
3039	40 mm dia	Each	4880.00
	NON - RETURN VALVE with duel plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as specified.		
3040	200 mm dia	Each	8834.40
3041	150mm dia	Each	4988.80
3042	125mm dia	Each	4074.40
3043	100 mm dia	Each	2817.60
3044	80mm dia	Each	1942.40
3045	65 mm dia	Each	1599.20
	Y - STRAINER of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified.		
3046	200mm dia	Each	35614.00
3047	150mm dia	Each	18992.00
3048	125mm dia	Each	14769.00
3049	100 mm dia	Each	9325.00
3050	80 mm dia	Each	6237.00
3051	65mm dia	Each	4804.00
3052	50mm dia	Each	3375.00
3053	40mm dia	Each	2471.00
3054	Industrial type pressure gauges with gun metal / brass valves	Each	811.53
3055	Industrial type thermometers.	Each	640.68
	Factory fabricated GSS sheet metal rectangular/round ducting of following sheet thickness		
3056	Thickness 0.63 mm sheet	sq. m	500.34
3057	Thickness 0.80 mm sheet	sq. m	614.75
3058	Thickness 1.00 mm sheet	sq. m	739.83
3059	Thickness 1.25 mm sheet	sq. m	886.27

Code No.	Description	Unit	Rate (₹)
	GSS sheet metal of following sheet thickness		
3060	Thickness 0.63 mm sheet	sq. m	398.14
3061	Thickness 0.80 mm sheet	sq. m	530.85
3062	Thickness 1.00 mm sheet	sq. m	664.32
3063	Thickness 1.25 mm sheet	sq. m	803.14
3064	GI volume control duct damper	sq. m	4591.53
3015	Motorized (ON-OFF Type) duct mounted GI volume control damper with enthalpy sensor and necessary control wire (minimum 1.5 sqmm) for integration within AHU room	sq. m	10800.00
3065	Actuator	sq. m	4599.15
3066	powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers	sq. m	6483.81
3067	Powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers	sq. m	4072.12
3068	Supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	sq. m	8809.32
3069	Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	sq. m	5742.46
	Thermal insulated flexible duct- 200 mm dia	sq. m	351.61
3070	Fire dampers in supply air duct/main branch and return air path with inbuilt mechanism of spring return action		
3071	Fire damper	sq. m	7318.98
3072	Actuator	sq. m	6734.75
3073	25 mm thick resin bonded glass wool having density of 32 kg/m³,	sq. m	117.46
3074	50mm thick, density 32 kg/cu.m resin bonded glass fiber insulation.	sq. m	234.15
	Duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class "O") insulation for use on existing duct		
3076	19mmthickness	sq. m	451.53
3077	25mmthickness	sq. m	597.97
	AIR HANDLING UNITS		
	Factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators,cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 6 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor of efficiency class IE 3 suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply suitably designed for VFD applications, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm diA, dial type pressure gauges (2 nos.)and industrial type		

Code No.	Description	Unit	Rate (₹)
	thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.		
3078	4300 CMH	Each	75212.54
3079	5100 CMH	Each	88485.25
3080	6800 CMH	Each	99433.22
3081	8500 MH	Each	123181.02
3082	10200 CMH	Each	142059.66
3083	11900 CMH	Each	161450.85
3084	13600 CMH	Each	173410.17
3085	15300 CMH	Each	196560.00
3086	17000 CMH	Each	208006.78
3087	18700 CMH	Each	229875.25
3088	20400 CMH	Each	246960.00
	Factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators,cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 4 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor of efficiency class IE 3 suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply suitably designed for VFD applications, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm diA, dial type pressure gauges (2 nos.)and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.		
3089	4300 CMH	Each	66278.14
3090	5100 CMH	Each	77794.32
3091	6800 CMH	Each	86804.24
3092	8500 CMH	Each	107408.90
3093	10200 CMH	Each	125658.31
3094	11900 CMH	Each	140665.42
3095	13600 CMH	Each	152054.24
3096	15300 CMH	Each	172812.20
3097	17000 CMH	Each	181867.12
3098	18700 CMH	Each	198991.53
3099	20400 CMH	Each	215780.34

Code No.	Description	Unit	Rate (₹)
	Motorized Butter fly Valves with CI Body, SS Disc,O - ring and minimum PN-16 pressure rating , conforming to BS 5155, IS 13095, with IP-55 actuator as specified.		
3101	350 mm	Each	79862.80
3102	300 mm	Each	71566.78
3103	250 mm	Each	51524.24
3104	200 mm	Each	38864.75
3105	150 mm	Each	30130.17
3106	125 mm	Each	29870.85
3107	100 mm	Each	29316.36
3108	80 mm	Each	12535.17
3109	65 mm	Each	12413.90
3110	50 mm	Each	12159.92
	Electronic, self-balancing, pressure independent type dynamic balancing valve with integrated 2 way modualating control valves in a single body, alongwith actuator as specified		
3111	150 mm	Each	115183.22
3112	125 mm	Each	104868.31
3113	100 mm	Each	82519.32
3114	80 mm	Each	48136.27
3115	65 mm	Each	37821.36
3116	50 mm	Each	24498.31
3117	40 mm	Each	22348.98
3118	32 mm	Each	12034.07
3119	25 mm	Each	11318.64
3120	20 mm	Each	8251.78
	AIR HANDLING UNIT		
	Factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators,cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 6 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor of Efficiency Class IE3 suitable for VFD 415 ± 10% volts, 20- 50Hz, 3 Phase AC supply, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm diA, dial type pressure gauges (2 nos.)and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.		

Code No.	Description	Unit	Rate (₹)
3142	23800 CMH	Each	270803.14
3143	28900 CMH	Each	285987.97
3144	34000 CMH	Each	316972.37
3145	39100 CMH	Each	439515.00
3162	23800 CMH	Each	205166.44
3163	28900 CMH	Each	261833.64
3164	34000 CMH	Each	290167.63
3165	39100 CMH	Each	332463.81
3201	Resin bonded fiber glass insulation of density 80 kg/cu m of thickness 65 mm on existing pipe	sq meter	990.76
	HOT DIPPED GALVANIZED CABLE TRAYS		
3701	MS perforated cable tray Hot Dipped Galvanized 100 X 50 X 1.6 mm	Metre	255.51
3702	MS perforated cable tray Hot Dipped Galvanized 150 X 50 X 1.6 mm	Metre	286.02
3703	MS perforated cable tray Hot Dipped Galvanized 225 X 50 X 1.6 mm	Metre	412.63
3704	MS perforated cable tray Hot Dipped Galvanized 300 X 50 X 1.6 mm	Metre	458.39
3705	MS perforated cable tray Hot Dipped Galvanized 375 X 50 X 2 mm	Metre	623.90
3706	MS perforated cable tray Hot Dipped Galvanized 450 X 50 X 2 mm	Metre	693.31
3707	MS perforated cable tray Hot Dipped Galvanized 600 X 50 X 2 mm	Metre	1014.41
3708	MS perforated cable tray Hot Dipped Galvanized 300 X 62.5 X 2 mm	Metre	617.03
3709	MS perforated cable tray Hot Dipped Galvanized 375 X 62.5 X 2 mm	Metre	726.10
3710	MS perforated cable tray Hot Dipped Galvanized 450 X 62.5 X 2 mm	Metre	835.17
3711	MS perforated cable tray Hot Dipped Galvanized 600 X 62.5 X 2 mm	Metre	1056.36
3712	MS perforated cable tray Hot Dipped Galvanized 750 X 62.5 X 2 mm	Metre	1298.14
3713	MS perforated cable tray Hot Dipped Galvanized 900 X 62.5 X 2 mm	Metre	1520.85
3714	MS perforated cable tray Hot Dipped Galvanized 600 X 75 X 2 mm	Metre	1089.15
3715	MS perforated cable tray Hot Dipped Galvanized 750 X 75 X 2 mm	Metre	1307.29
3716	MS perforated cable tray Hot Dipped Galvanized 900 X 75 X 2 mm	Metre	1524.66
3717	MS perforated Hot Dipped Galvanized cable tray Connector 100 X 50 X 1.6 mm	Each	32.03
3718	MS perforated Hot Dipped Galvanized cable tray Connector 150 X 50 X 1.6 mm	Each	38.14

Code No.	Description	Unit	Rate (₹)
3719	MS perforated Hot Dipped Galvanized cable tray Connector 225 X 50 X 1.6 mm	Each	40.42
3720	MS perforated Hot Dipped Galvanized cable tray Connector 300 X 50 X 1.6 mm	Each	40.42
3721	MS perforated Hot Dipped Galvanized cable tray Connector 375 X 50 X 2 mm	Each	40.42
3722	MS perforated Hot Dipped Galvanized cable tray Connector 450 X 50 X 2 mm	Each	40.42
3723	MS perforated Hot Dipped Galvanized cable tray Connector 600 X 50 X 2 mm	Each	40.42
3724	MS perforated Hot Dipped Galvanized cable tray Connector 300 X 62.5 X 2 mm	Each	40.42
3725	MS perforated Hot Dipped Galvanized cable tray Connector 375 X 62.5 X 2 mm	Each	40.42
3726	MS perforated Hot Dipped Galvanized cable tray Connector 450 X 62.5 X 2 mm	Each	40.42
3727	MS perforated Hot Dipped Galvanized cable tray Connector 600 X 62.5 X 2 mm	Each	40.42
3728	MS perforated Hot Dipped Galvanized cable tray Connector 750 X 62.5 X 2 mm	Each	40.42
3729	MS perforated Hot Dipped Galvanized cable tray Connector 900 X 62.5 X 2 mm	Each	40.42
3733	MS perforated Hot Dipped Galvanized cable tray Bend 100 X 50 X1.6 mm	Each	639.92
3734	MS perforated Hot Dipped Galvanized cable tray Bend 150 X 50 X 1.6 mm	Each	715.42
3735	MS perforated Hot Dipped Galvanized cable tray Bend 225 X 50 X1.6 mm	Each	1030.42
3736	MS perforated Hot Dipped Galvanized cable tray Bend 300 X 50 X 1.6 mm	Each	1145.59
3737	MS perforated Hot Dipped Galvanized cable tray Bend 375 X 50 X 2 mm	Each	1558.98
3738	MS perforated Hot Dipped Galvanized cable tray Bend 450 X 50 X 2 mm	Each	1732.88
3739	MS perforated Hot Dipped Galvanized cable tray Bend 600 X 50 X 2 mm	Each	2536.02
3740	MS perforated Hot Dipped Galvanized cable tray Bend 300 X 62.5 X 2 mm	Each	1542.97
3741	MS perforated Hot Dipped Galvanized cable tray Bend 375 X 62.5 X 2 mm	Each	1816.02
3742	MS perforated Hot Dipped Galvanized cable tray Bend 450 X 62.5 X2 mm	Each	2087.54
3743	MS perforated Hot Dipped Galvanized cable tray Bend 600 X 62.5 X 2 mm	Each	2421.61
3744	MS perforated Hot Dipped Galvanized cable tray Bend 750 X 62.5 X 2 mm	Each	3243.05
3745	MS perforated Hot Dipped Galvanized cable tray Bend 900 X 62.5 X 2 mm	Each	3793.73

Code No.	Description	Unit	Rate (₹)
3746	MS perforated Hot Dipped Galvanized cable tray Bend 600 X 75 X 2 mm	Each	2722.88
3747	MS perforated Hot Dipped Galvanized cable tray Bend 750 X 75 X 2 mm	Each	3267.46
3748	MS perforated Hot Dipped Galvanized cable tray Bend 900 X 75 X 2 mm	Each	3812.03
3749	MS perforated Hot Dipped Galvanized cable tray Reducer 100 X 50 X 1.6 mm	Each	1014.41
3750	MS perforated Hot Dipped Galvanized cable tray Reducer 150 X 50 X 1.6 mm	Each	1207.37
3751	MS perforated Hot Dipped Galvanized cable tray Reducer 225 X 50 X 1.6 mm	Each	1572.71
3752	MS perforated Hot Dipped Galvanized cable tray Reducer 300 X 50 X 1.6 mm	Each	1870.93
3753	MS perforated Hot Dipped Galvanized cable tray Reducer 375 X 50 X 2 mm	Each	2305.68
3754	MS perforated Hot Dipped Galvanized cable tray Reducer 450 X 50 X 2 mm	Each	2509.32
3755	MS perforated Hot Dipped Galvanized cable tray Reducer 600 X 50 X 2 mm	Each	3571.02
3756	MS perforated Hot Dipped Galvanized cable tray Reducer 300 X 62.5 X 2 mm	Each	2298.81
3757	MS perforated Hot Dipped Galvanized cable tray Reducer 375 X 62.5 X 2 mm	Each	2706.10
3758	MS perforated Hot Dipped Galvanized cable tray Reducer 450 X 62.5 X 2 mm	Each	3199.58
3759	MS perforated Hot Dipped Galvanized cable tray Reducer 600 X 62.5 X 2 mm	Each	4101.10
3760	MS perforated Hot Dipped Galvanized cable tray Reducer 750 X 62.5 X 2 mm	Each	4425.25
3761	MS perforated Hot Dipped Galvanized cable tray Reducer 900 X 62.5 X 2 mm	Each	5162.03
3762	MS perforated Hot Dipped Galvanized cable tray Reducer 600 X 75 X 2 mm	Each	3577.88
3763	MS perforated Hot Dipped Galvanized cable tray Reducer 750 X 75 X 2 mm	Each	4485.51
3764	MS perforated Hot Dipped Galvanized cable tray Reducer 900 X 75 X 2 mm	Each	5224.58
3765	MS perforated Hot Dipped Galvanized cable tray Tee 100 X 50 X 1.6 mm	Each	766.53
3766	MS perforated Hot Dipped Galvanized cable tray Tee 150 X 50 X 1.6 mm	Each	800.85
3767	MS perforated Hot Dipped Galvanized cable tray Tee 225 X 50 X 1.6 mm	Each	1237.12
3768	MS perforated Hot Dipped Galvanized cable tray Tee 300 X 50 X 1.6 mm	Each	1374.41

Code No.	Description	Unit	Rate (₹)
3769	MS perforated Hot Dipped Galvanized cable tray Tee 375 X 50 X 2 mm	Each	1870.93
3770	MS perforated Hot Dipped Galvanized cable tray Tee 450 X 50 X 2 mm	Each	2079.15
3771	MS perforated Hot Dipped Galvanized cable tray Tee 600 X 50 X 2 mm	Each	3043.22
3772	MS perforated Hot Dipped Galvanized cable tray Tee 300 X 62.5 X 2 mm	Each	1851.86
3773	MS perforated Hot Dipped Galvanized cable tray Tee 375 X 62.5 X 2 mm	Each	2220.25
3774	MS perforated Hot Dipped Galvanized cable tray Tee 450 X 62.5 X 2 mm	Each	2504.75
3775	MS perforated Hot Dipped Galvanized cable tray Tee 600 X 62.5 X 2 mm	Each	3229.32
3776	MS perforated Hot Dipped Galvanized cable tray Tee 750 X 62.5 X 2 mm	Each	3887.54
3777	MS perforated Hot Dipped Galvanized cable tray Tee 900 X 62.5 X 2 mm	Each	4554.15
3778	MS perforated Hot Dipped Galvanized cable tray Tee 600 X 75 X 2 mm	Each	3267.46
3779	MS perforated Hot Dipped Galvanized cable tray Tee 750 X 75 X 2 mm	Each	3921.10
3780	MS perforated Hot Dipped Galvanized cable tray Tee 900 X 75 X 2 mm	Each	4574.75
3781	MS perforated Hot Dipped Galvanized cable tray Cross member 100 X 50 X 1.6 mm	Each	766.53
3782	MS perforated Hot Dipped Galvanized cable tray Cross member 150 X 50 X 1.6 mm	Each	800.85
3783	MS perforated Hot Dipped Galvanized cable tray Cross member 225 X 50 X 1.6 mm	Each	1251.61
3784	MS perforated Hot Dipped Galvanized cable tray Cross member 300 X 50 X 1.6 mm	Each	1533.05
3785	MS perforated Hot Dipped Galvanized cable tray Cross member 375 X 50 X 2 mm	Each	2071.53
3786	MS perforated Hot Dipped Galvanized cable tray Cross member 450 X 50 X 2 mm	Each	2401.78
3787	MS perforated Hot Dipped Galvanized cable tray Cross member 600 X 50 X 2 mm	Each	3053.90
3788	MS perforated Hot Dipped Galvanized cable tray Cross member 300 X 62.5 X 2 mm	Each	1857.20
3789	MS perforated Hot Dipped Galvanized cable tray Cross member 375 X 62.5 X 2 mm	Each	2179.07
3790	MS perforated Hot Dipped Galvanized cable tray Cross member 450 X 62.5 X 2 mm	Each	2509.32
3791	MS perforated Hot Dipped Galvanized cable tray Cross member 600 X 62.5 X 2 mm	Each	3168.31

Code No.	Description	Unit	Rate (₹)
3792	MS perforated Hot Dipped Galvanized cable tray Cross member 750 X 62.5 X 2 mm	Each	3887.54
3793	MS perforated Hot Dipped Galvanized cable tray Cross member 900 X 62.5 X 2 mm	Each	4554.15
3794	MS perforated Hot Dipped Galvanized cable tray Cross member 600 X 75 X 2 mm	Each	3269.75
3795	MS perforated Hot Dipped Galvanized cable tray Cross member 750 X 75 X 2 mm	Each	2797.63
3796	MS perforated Hot Dipped Galvanized cable tray Cross member 900 X 75 X 2 mm	Each	3262.88
3801	GI Suspender 6 mm dia 0.75m long	Each	21.36
3802	GI Suspender 8 mm dia 0.75m long	Each	26.69
3803	GI Suspender 10 mm dia 0.75m long	Each	32.03
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel	kg	43.47
3805	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel	kg	43.47
3806	35mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel	kg	43.47
4001	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 400 mm dia pipe	Meter	1850.34
4002	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 350 mm dia pipe	Meter	1654.32
4003	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 300 mm dia pipe	Meter	1356.10
4004	Resin bonded fiber glass pipe section 250mm insulation having density 80 kg/cum-75 mm thickness for 250 mm dia pipe	Meter	1184.49
4005	Resin bonded fiber glass pipe section 200 mm insulation having density 80 kg/cum-75 mm thickness for 200 mm dia pipe	Meter	1002.97
4006	Resin bonded fiber glass pipe section 150 mm insulation having density 80 kg/cum-50 mm thickness for 150 mm dia pipe	Meter	507.20
4007	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 125mm dia pipe	Meter	447.71
4008	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 100 mm dia pipe	Meter	200.59
4009	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 80 mm dia pipe	Meter	331.02
4010	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 65 mm dia pipe	Meter	299.75
4011	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 50 mm dia pipe	Meter	261.61
4012	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50mm thickness for 40 mm dia pipe	Meter	235.68

Code No.	Description	Unit	Rate (₹)
4013	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 32 mm dia pipe	Meter	221.95
4014	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 25 mm dia pipe	Meter	202.12
4015	Nitrile rubber (closed cell elastometric nitrile rubber of class 'O') Insulation -32 mm thickness	per sq mtr.	669.66
4016	Nitrile rubber (closed cell elastometric nitrile rubber of class 'O') Insulation -19 mm thickness	per sq mtr.	370.68
4017	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -75mm thickness for 400 mm dia pipe	Meter	1047.20
4018	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -75mm thickness for 350 mm dia pipe	Meter	895.42
4019	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -75mm thickness for 300mm dia pipe	Meter	771.86
4020	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -75mm thickness for 250 mm dia pipe	Meter	644.49
4021	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -75 mm thickness for 200 mm dia pipe	Meter	549.15
4022	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 150 mm dia pipe	Meter	260.85
4023	Expanded polystrene moulded pipe section of density 20kg/cum Insulation - 50 mm thickness for 125 mm dia pipe	Meter	229.58
4024	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 100 mm dia pipe	Meter	202.12
4025	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 80 mm dia pipe	Meter	167.03
4026	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 65 mm dia pipe	Meter	152.54
4027	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 50 mm dia pipe	Meter	134.24
4028	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 40 mm dia pipe	Meter	119.75
4029	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 32 mm dia pipe	Meter	112.12
4030	Expanded polystrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 25 mm dia pipe	Meter	102.97
4031	Resin bonded fiber glass insulation of thickness 75 mm on existing pipe	Per sq meter	1366.02
4032	Resin bonded fiber glass insulation of density 80 kg/cu.mt. of thickness 50 mm on existing pipe	Per sq meter	1120.42
4033	Resin bonded fiber glass insulation of density 80 kg/cu.mt. of thickness 40 mm on existing pipe	Per sq meter	971.69
4034	Resin bonded fiber glass insulation of thickness 25 mm on existing pipe	Per sq meter	641.44

Code No.	Description	Unit	Rate (₹)
4037	Expanded polystrene insulation of thickness 75 mm on existing pipe	Per sq meter	224.24
4038	Expanded polystrene insulation of thickness 50 mm on existing pipe	Per sq meter	149.49
4069	Acoustic lining of supply air duct with 25mm thick resin bonded glass wool having density of 32kg/m3	Per sq meter	117.46
4070	Reinforced fiber glass tissue and 0.08mm perforated aluminium sheet	Per sq meter	319.58
4071	50 mm thick resin bonded glass wool having density of 32kg/m3	Per sq meter	234.15
4072	50 mm thick resin bonded glass wool having density of 24 kg/m3 with factory laminated aluminium foil	Per sq meter	173.14
4073	Resin bonded fiber glass insulation of thickness 65 mm on existing pipe	Per sq meter	1238.64
	FIRE DETECTION AND ALARM SYSTEM		
4101	Heat Detectors of electronic Rate of Rise cum fixed tempreature (Dual Thermistor) type with mounting base complete with all connection etc.	Each	750.00
4102	Smoke Detector with built in LED, mounting base complete with all connection etc.	Each	812.50
4103	Manual call boxes of MS Type in surface/recess with stainless steel chain & hammer assembly complete with glass and push button etc.	Each	300.00
4104	Manual call boxes of ABS Type in surface/recess with stainless steel chain & hammer assembly complete with glass and push button etc.	Each	250.00
4105	Response indicator on surface/recessed MS Box having two LED's metallic covers complete with all connections etc.	Each	90.00
4106	Fire alarm sounders (electronic) with facility to make announcement, mounted in M.S. Box (16 SWG) with hinged cover plate & suitable for operation with amplifier i/c line matching transformer etc.	Each	362.50
4107	Fire alarm sounders (electronic) with facility to make announcement, mounted in A,B.S. Box with hinged cover plate & suitable for operation with amplifier i/c line matching ttransformer etc.	Each	312.50
4108	Talk back slave station in surface/recess suitable for operation on simplex mode complete with P.T.T. Knob & speaker/microphone enclosed in a M.S (16 SWG)/ABS.Box, break glass in front etc.	Each	625.00
	Sector panels suitable for following zones, complete with visual indications for short circuit fault, open circuit fault fire conditions and all other standard facilities as per IS:2189, mimic diagram for all area/zone covered complete with all connections, interconnections		
4109	4 Zone fire alarm control panel as per IS: 2189 with backlit LCD Display	Each	4875.00
4110	6 Zone fire alarm control panel as per IS: 2189 with backlit LCD Display	Each	7375.00
4111	10 Zone fire alarm control panel as per IS: 2189 with backlit LCD Display	Each	9750.00

Code No.	Description	Unit	Rate (₹)
	Main control and indication panel made out of 16 SGW MS sheet to accommodate the following items duly stove anameled painted in approved colour with louvers for ventilation's locking arrangement including audio and visual indication for fire alarm and public address system, monitoring system including providing and fixing the following connections, interconnections etc.		
4112	10 zone control panel for fire alarm system with following:- 250 Watt amplifier racks suitable for operation on 230V AC/24V DC supply conforming to IEC-268-3 complete with all accessories as required 2 Nos.(one to act as standby) Talk back master station with LED PTT (Press to talk) push button for operation on 230V AC/24 V DC supply conforming to IEC-268 for simplex mode of operation/communication suitable for 20 Nos. talk back unit 1 set. Annoucement control desk suitable for selection of different zones selectively and ON ALL CALL switch with visual indication etc., complete as required 1 Set. Amplifier change over switch for inter changing amplifier 1 No. Monitor panel for loudspeaker complete output selector ON/OFF switch, fuse visual indications etc. complete as required 1 No. Gooseneck microphone with stand and ON/OFF switch 1 No. Mains ON/OFF switch, fuse indication IA, DC and AC voltmeters & Ammeters terminal blocks etc. complete as required 1 Set. Battery charger trickle cum boost to take complete load of fire alarm & PA system complete with all accessories including providing & fixing of 2 nos.12 volt, 60 AH each sealed maintenance free batteries 1 Set.	Each	47177.00
4113	6 zone control panel for fire alarm system with following:- 100 Watt amplifier racks suitable for operation on 230V AC/24V DC supply conforming to IEC-268-3 complete with all accessories as required 2 Nos.(one to act as standby) Talk back master station with LED PTT (Press to talk) push button for operation on 230V AC/24 V DC supply conforming to IEC-268 for simplex mode of operation/communication suitable for 20 Nos. talk back unit 1 set. Annoucement control desk suitable for selection of different zones selectively and ON ALL CALL switch with visual indication etc., complete as required 1 Set. Amplifier change over switch for inter changing amplifier 1 No. Monitor panel for loudspeaker complete output selector ON/OFF switch, fuse visual indications etc. complete as required 1 No. Gooseneck microphone with stand and ON/OFF switch 1 No. Mains ON/OFF switch, fuse indication IA, DC and AC voltmeters & Ammeters terminal blocks etc. complete as required 1 Set. Battery charger trickle cum boost to take complete load of fire alarm & PA system complete with all accessories including providing & flxing of 2 nos.12 volt,30 AH each sealed maintenance free batteries 1 Set.	Each	32272.00

Code No.	Description	Unit	Rate (₹)
	Micro processor based. Intelligent Addressable Main Fire alarm panel, Central Processing Unit ,with the following loop module and with each loop capacity of 120 detector per loop with total of 240 detectors and devices with loop length up to 2 kmtr, network communication card, minimum 320 character graphics, LCD display with touch screen or other keypad and 1000 event history logs in the non volatile memory (EEPROM) power supply unit at 230+ 5 % V, 48 Hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout logs and facility to have integration with analog voice evacuation system(which is part of the schedule of work under SH: PA System) and shall be complete with all accessories . The panel should be compatible for integration with IBMS system with open protocol Bacnet/IP, complete as per specs and as required for following loops.		
4114	10 Loop Control Panel having CPU with 640 character display including backlite LCD display qwerty programming and operating manuals, supporting 1 to 10 signaling line circuits (upto 5 extendable cards & supporting 103 network modes) complete as required. Control and expander moudules. Control and expander moudules. Dress Plate. Battery dress plate. Chassis low profile. Dress Panel blanck covers. Backnete protocol.	Each	338000.00
4115	Two Loop Control Panel having CPU with 640 character display including backlite LCD display qwerty programming and operating manuals, supporting 1 to 10 signaling line circuits (upto 5 extendable cards & supporting 103 network modes) complete as required. Control and expander moudules. Dress Plate. Battery dress plate. Chassis low profile. Dress Panel blanck covers. Backnete protocol.	Each	177650.00
4116	Central graphical fire alarm management system i/c software	Each	147250.00
4117	320 character LCD display repeater panel.	Each	81000.00
4118	Intelligent photothermal detector	Each	2099.50
4119	Response indicator on surface/recessed MS Box having two LED's metallic covers complete with all connections etc.	Each	150.00
4120	Intelligent addressable programmable sounder.	Each	1824.00
4121	Cost of fault isolator complete with base	Each	2291.40
4122	Cost of intelligent aspiration detector	Each	220000.00
4123	Cost of intelligent addressable thermal detector	Each	1881.00

Code No.	Description	Unit	Rate (₹)
4124	Cost of control module	Each	2090.00
4125	Cost of addressable fire phone control module	Each	2289.50
4126	Cost of addressable beam detector with remote test features	Each	55100.00
4127	Cost of intelligent duct detector unit with photothermal detector complete with base	Each	5721.85
4128	Cost of manual call point	Each	2745.50
4129	Cost of Horn cum strobe	Each	2470.00
4130	Cost of Strobe.	Each	2364.55
4131	Cost of fire fighter telephone handset	Each	4275.00
4132	Intelligent interface unit BACnet protocol for communication link between building management system and fire alarm control panel.	Each	141550.00
4133	Cost of fire fighter phone jack	Each	1149.50
4134	6 Zone, voice alarm controller with USB, MP3, AM/FM player (including zone button paging station).	Each	95250.00
4135	Cost of 1.5/3/6W Ceiling Speaker	Each	670.00
4136	Cost of 1.5/3/6W Metal Ceiling Speakers.	Each	1295.00
4137	Cost of wall mounted loud speaker, 3/1.5 Watt in ABS enclosure	Each	1775.00
4138	Cost of 2 watt, 70 Volts ceiling speaker.	Each	1330.00
4139	Cost of Digital audio amplifier 50 Watt 25VRMS operating of 240 Volt AC Supply.	Each	73000.00
4140	Digital audio amplifier 75 Watt 25VRMS operating of 240 Volt AC Supply.	Each	110000.00
4141	Cost of Exit point directional sound speaker with voice and integral audio amplifier with selectable sound pulse patterns	Each	7600.00
4142	Cost of Digital voice command keypad	Each	37082.50
4143	Cost of 25 mm Outer dia PVC/ABS Pipe with end caps including making air sampling operning of appropriate dia on appropriate interval.	meter	78.00
4144	Cost of Fire Survival armoured cable,Fibre glass tape wrapped, ZH inner, outer sheath 2x1.5 Sq. mm cable.	meter	196.20
4145	Cost of Fire alarm armoured FRLS cable 2 x 1.5 sqmm	meter	58.20
	Speaker cable of following pairs ,cores and size of PVC insulated FRLS copper conductor cable with LHC in the existing surface / recessed steel conduit / PVC casing and capping including connections etc.		
4146	Cost of single pair 2-core 48/0.2 mm, speaker cable	meter	24.64
4147	Cost of 25 mm dia MS flexible pipe with PVC coating along with all ancillaries & accessories like coupler etc.	meter	25.00
4148	Two pair 0.5 Sq. mm copper twisted cable for talk back system.	meter	8.16
4149	Addressable beam detector	Each	55100.00

Code No.	Description	Unit	Rate (₹)
4150	Cost of two pair 2-core 48/0.2 mm for PA System.(wastage 5%)	meter	49.28
4151	Cost of three pair 2-core 48/0.2 mm Speaker Cable for PA System.(wastage 5%)	meter	73.92
4152	Cost of four pair 2-core 48/0.2 mm Speaker Cable for PA System. (wastage 5%)	meter	98.56
	WET RISER & SPRINKLER SYSTEM		
	Fire Hydrant single outlet gunmetal NB inlet brass spindle 63mm female instantanous/outlet with PVC blank cap and GI chain as per IS:5290 (ISI Marked)		
4201	Single head gunmetal hydrant valve	Each	4685.00
	Short stainless steel branch pipe 63mm male intantanous inlet male threaded outlet fitted with 15mm bore nosle as per IS:903 (ISI Marked)		
4202	Single Head Stainless Steel Hydrant Valve	Each	3547.00
	Short gunmetal pipe 63mm male intantanous inlet male threaded outlet fitted with 15mm bore nozzle as per IS:903 (ISI Marked)		
4203	Gunmetal short branch pipe	Each	1758.00
4204	Short stainless steel branch pipe	Each	1189.00
	FBC CI Body having two nos. gunmetal 63mm male instantanous inlet coupling confirming to IS:903 fitted with non return valve flange outlet of 100mm dia complete with 25mm size gunmetal drain valve, two nos. rubber blanck caps and chain		
4205	Two way gunmetal FBC connection	Each	4002.00
4206	Three way gunmetal FBC connection	Each	6050.00
4207	Four way gunmetal FBC connection	Each	9462.00
	Sythetic fibre circular woven jackated rubber lined fire hose delivery having 38Kg. Per Cm. Sq. burst pressure, 28Kg. Per Cm. proof pressure, 14Kg. Per Cm. working pressure as per IS:636 (ISI Marked) Type A in 15 Meters length, 63mm dia duly copper via bounded two coupling pair of male female parts any duly intantanous type, 63mm size as per IS:903 (ISI Marked)		
4208	RRL Hose with male female gunmetal coupling	Each	3861.00
4209	RRL Hose with male female stainless steel coupling	Each	3292.00
	19mm swinging hose reel complete reinforced braided thermoplastic red/black hose		
4210	Swinging type hose reel complete with 19mm x 30 Mtrs. Thermolplastic hoseType-II	Each	2043.00
4211	Swinging type hose reel complete with 19mm x 40 Mtrs. Thermolplastic hose Type-II	Each	3232.00

Code No.	Description	Unit	Rate (₹)
4212	Hose reel drum	Each	2350.00
4213	25mm dia gun metal globe valve & nozzle.	Each	691.00
	Sprinkler operating at 68^0 centigrade standard response, standard coverage 15mm BPST, K56 UL listed and FM approved		
4214	68^0 centigrade Pendant Sprinkler	Each	168.00
4215	68^0 centigrade Upright Sprinkler	Each	168.00
4216	68^0 centigrade Sidewall Sprinkler	Each	240.00
4217	68^0 centigrade Concealed Sprinkler	Each	857.00
	Sprinkler flexible drops stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread 1 No. reducer + 1 No. Nipple + 2 Side Brackets + 1 Center Bracket + 625 mm stockbar		
4218	700mm flexible drop	Each	795.00
4219	1000mm flexible drop	Each	945.00
4220	1200mm flexible drop	Each	1015.00
4221	1500mm flexible drop	Each	1137.50
4222	Water flow switch for 100mm dia pipe	Each	4945.00
4223	Water flow switch for 150mm dia pipe	Each	6083.00
	hydraulic alarm valve with water motor gong bell and constant pressure trim assembly complete as required		
4224	150mm dia hydraulic alarm valve with water motor gong	Each	34933.00
4225	100mm dia hydraulic alarm valve with water motor gong	Each	32517.00
4226	80mm dia hydraulic alarm valve with water motor gong	Each	30777.00
	Deluge valve with wet pilot basic trim assembly with test and alarm, drip and drain valve with water motor gong		
4227	150mm dia deluge valve	Each	84888.00
4228	100mm dia deluge valve	Each	68238.00
4229	80mm dia deluge valve	Each	60732.00
4230	50mm dia deluge valve	Each	60280.00
	Water curtain nozzle, 15mm dia BPST K-Factor as per design consideration		
4231	Water curtain nozzle, nickel chrome plated brass	Each	313.20
4232	Electric release trim assembly for deluge valve with two way solenoid valve, weather proof operation on 24 volts DC	Each	5382.00
4233	Adjustable rosette plate for 15mm dia (Powder Coated)	Each	80.00
	BUTTERFLY VALVE PN 1.6 rating		
4234	40mm dia butterfly valve	Each	1948.00
4235	50mm dia butterfly valve	Each	1948.00

Code No.	Description	Unit	Rate (₹)
4236	65mm dia butterfly valve	Each	2150.00
4237	80mm dia butterfly valve	Each	2382.00
4238	100mm dia butterfly valve	Each	3305.00
4239	125mm dia butterfly valve	Each	4175.00
4240	150mm dia butterfly valve	Each	4803.00
4241	200mm dia butterfly valve	Each	9188.00
4242	250mm dia butterfly valve	Each	12912.00
4243	300mm dia butterfly valve	Each	16105.00
	MS pipe as per IS/1239 ISI MARKED C Class (heavy)		
4244	25mm dia MS Pipe	m	118.00
4245	32mm dia MS Pipe	m	155.00
4246	40mm dia MS Pipe	m	180.00
4247	50mm dia MS Pipe	m	265.00
4248	65mm dia MS Pipe	m	350.00
4249	80mm dia MS Pipe	m	424.00
4250	100mm dia MS Pipe	m	634.00
4251	125mm dia MS Pipe	m	819.00
4252	150mm dia MS Pipe	m	938.00
4253	200mm dia MS Pipe (6.3 mm thick)	m	1426.00
4254	250mm dia MS Pipe (6.3 mm thick)	m	1798.00
4255	300mm dia MS Pipe (7.1 mm thick)	m	2106.00
	GI pipe as par IS/1239 ISI MARKED C Class (heavy)		
4256	25mm dia G.I. Pipe	m	171.00
4257	32mm dia G.I. Pipe	m	215.00
4258	40mm dia G.I. Pipe	m	250.00
4259	50mm dia G.I. Pipe	m	310.00
4260	65mm dia G.I. Pipe	m	395.00
4261	80mm dia G.I. Pipe	m	505.00
4262	100mm dia G.I. Pipe	m	714.00
4263	150mm dia G.I. Pipe	m	1066.00
	NON RETURN VALVE cast Iron double flange as per IS/5312 PN 1.6 rating complete with Bronze body & wedge Stainless Steel spindle, Gland packing, Rubber gasket		
4264	40mm dia Non Return Valve	Each	3311.00
4265	50mm dia Non Return Valve	Each	3311.00
4266	65mm dia Non Return Valve	Each	3785.00
4267	80mm dia Non Return Valve	Each	4366.00
4268	100mm dia Non Return Valve	Each	6607.00
4269	125mm dia Non Return Valve	Each	10290.00
4270	150mm dia Non Return Valve	Each	11718.00
4271	200mm dia Non Return Valve	Each	20013.00
4272	250mm dia Non Return Valve	Each	31946.00

Code No.	Description	Unit	Rate (₹)
4273	300mm dia Non Return Valve	Each	43392.00
	NON RISING cast Iron double flange SLUICE Valve as per ISI/14846 PN 1.6 rating comple te with Bronze body & wedge Stainless Steel spindle, G land packing, Rubber gasket		
4274	40mm DIA Sluice Valve	Each	3540.00
4275	50mm DIA Sluice Valve	Each	4532.00
4276	65mm DIA Sluice Valve	Each	5875.00
4277	80mm DIA Sluice Valve	Each	6663.00
4278	100mm DIA Sluice Valve	Each	9324.00
4279	125mm DIA Sluice Valve	Each	12511.00
4280	150mm DIA Sluice Valve	Each	15461.00
4281	200mm DIA Sluice Valve	Each	27639.00
4282	250mm DIA Sluice Valve	Each	32913.00
4283	300mm DIA Sluice Valve	Each	47409.00
	Cast iron double flange strainer with stainless steel mesh, PN 1.6 rating complete with accessories as required.		
4284	80mm dia CIDF SS mesh Strainer	Each	2530.80
4285	100mm dia CIDF SS mesh Strainer	Each	3636.00
4286	150mm dia CIDF SS mesh Strainer	Each	6791.40
4287	200mm dia CIDF SS mesh Strainer	Each	14689.80
4288	250mm dia CIDF SS mesh Strainer	Each	18450.90
4289	300mm dia CIDF SS mesh Strainer	Each	25366.50
4290	25mm Air release valve as per IS:14845 ISI Marked	Each	1350.00
	electric driven main fire pump with motor, base plate coupling, coupling guard, foundation bolts and anti vibration pads		
4291	2850 lpm at 88 m Head	Each	331000.00
4292	2850 lpm at 70 m Head	Each	295000.00
4293	2850 lpm at 56 m Head	Each	294000.00
4294	2280 lpm at 88 m Head	Each	294000.00
4295	2280 lpm at 70 m Head	Each	268000.00
4296	2280 lpm at 56 m Head	Each	24000.00
4297	1620 lpm at 88 m Head	Each	268000.00
4298	1620 lpm at 70 m Head	Each	240000.00
4299	1620 lpm at 56 m Head	Each	204000.00
	diesel engine driven main fire pump, tank, exhaust, foundation bolts, anti vibration pads etc.		
4300	2850 lpm at 88 m Head	Each	505000.00
4301	2850 lpm at 70 m Head	Each	453700.00
4302	2850 lpm at 56 m Head	Each	451000.00
4303	2280 lpm at 88 m Head	Each	468000.00

Code No.	Description	Unit	Rate (₹)
4304	2280 lpm at 70 m Head	Each	450000.00
4305	2280 lpm at 56 m Head	Each	448000.00
4306	1620 lpm at 88 m Head	Each	463100.00
4307	1620 lpm at 70 m Head	Each	435000.00
4308	1620 lpm at 56 m Head	Each	375000.00
	electric driven pressurisation pump (Jockey pump)		
4309	180 lpm at 88 m Head	Each	90000.00
4310	180 lpm at 70 m Head	Each	72000.00
4311	180 lpm at 56 m Head	Each	56000.00
4312	300 lpm at 88 m Head	Each	120000.00
4313	300 lpm at 70 m Head	Each	90200.00
4314	300 lpm at 56 m Head	Each	81000.00
	electric driven pressurisation pump (Terrace pump)		
4315	900 lpm at 35 m Head	Each	70909.00
4316	450 lpm at 35 m Head	Each	59091.00
4317	Air Vessel 250 mm	Each	12646.00
4318	Pressure switch	Each	986.00
4319	**Orifice plate made of 6 mm. thick stainless steel with orifice of required size in between flange & landing valve of external and internal hydrant to reduce pressure to working pressure of 3.5 kg/cm^2**	Each	802.00
4320	Cost of Cement concrete foundation with 35x35x5 mm angle frame on edges duly plastered Cum with inertia bloacks.	Cum	4500.00
	Cost of Control Panel		
4321	**INCOMING**		
	250A, 50kA 4 Pole MCCB, Ics=100% Icu rating		
	Digital Voltmeter 0-500V with selector switch		
	Digital Ammeter (0-250 A) with selector swtich & CTs etc.		
	LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps		
	Set of Copper Bus Bar 300A		
	OUTGOING		
	(Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)		
	Main Fire Pump		
	125 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		

Code No.	Description	Unit	Rate (₹)
	Jockey Pump 63 A, 50kA TPN MCCB, Ics=100% Icu, with suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. **Diesel Engine Control** Control for diesel engine comprising - Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine **System Controller** Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Each	175000.00
4322	**Incomings** 400A, 50kA 4 Pole MCCB, Ics=100% Icu rating Digital Voltmeter 0-500V with selector switch Ammeter (0-400 A) with selector swtich & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 500A **Outgoings** (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) **Main Fire Pump** 200 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. **Jockey Pump** 100 A, 50kA TPN MCCB, Ics=100% Icu, with suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.		

Code No.	Description	Unit	Rate (₹)
	Diesel Engine Control Control for diesel engine comprising - Automatic/Manual selctor switch & 3 attempt starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine **System Controller** Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specifications.	Each	205000.00
4323	**Incomings** 630A, 50kA 4 Pole MCCB, Ics=100% Icu rating Digital Voltmeter 0-500V with selector switch Ammeter (0-630 A) with selector swtich & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 800Amps **Outgoings** (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) **Main Fire Pump** 250 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. **Jockey Pump** 125 A, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. **Diesel Engine Control** Control for diesel engine comprising - Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication		

Code No.	Description	Unit	Rate (₹)
	Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine **System Controller** Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Each	230000.00
4324	**Incomings** 400A, 50kA 4 Pole MCCB, Ics=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-400 A) with selector swtich & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 500Amps **Outgoings** (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) **Main Fire Pump** 125 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets **Jockey Pump** 63 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets **Diesel Engine Control** Control for diesel engine comprising - Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine **System Controller** Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump,		

Code No.	Description	Unit	Rate (₹)
	Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Each	265000.00
4325	**Incomings** 630A, 50kA 4 Pole MCCB, Ics=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-630 A) with selector swtich & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 800Amps **Outgoings** (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) **Main Fire Pump** 200 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets **Jockey Pump** 100 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets **Diesel Engine Control** Control for diesel engine comprising - Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine **System Controller** Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Each	320000.00
4326	**Incomings** 800A, 50kA 4 Pole MCCB, Ics=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-800 A) with selector swtich & CTs etc.		

Code No.	Description	Unit	Rate (₹)
	LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 1000Amps		
	Outgoings		
	(Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)		
	Main Fire Pump		
	250 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
	Jockey Pump		
	125 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets		
	DIESEL ENGINE CONTROL		
	Control for diesel engine comprising -		
	Automatic/Manual selctor switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode		
	Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication		
	Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter		
	All standard relays and accessories for automatic operation of diesel engine		
	System Controller		
	Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification	Each	410000.00
4327	Basic cost of 4 mm thick Anti Corrosive Pipe Protection Bituminous Tape,	sq m	210.00
4328	Basic cost of anticorrosive Black paint	Litre	110.00
4329	Cost of 4 Nos. Nuts bolts and washers	Set	50.00
4330	Cost of 1 No. 3 mm thick rubber gasket	Each	70.00
4331	Cost of 1 No. MS flange as per IS drilling 16 mm thick LS	Set	200.00
4332	Cost of Welding rod	Job	40.00
4333	Cost of 40 mm dia Flange	Each	110.00
4334	Cost of 8 Nos. Nut bolt fastner and packing gaskets	Each	90.00
4335	Cost of Welding rod LS	Each	60.00

Code No.	Description	Unit	Rate (₹)
4336	Cost of 50 mm dia butterfly valve	Each	110.00
4337	Cost of 50mm dia Flange	Each	110.00
4338	Cost of 65 mm dia Flange	Each	110.00
4339	Cost of 65 mm dia butterfly valve	Each	110.00
4340	Cost of 80 mm dia Flange	Each	220.00
4341	Cost of 8 Nos. Nut bolt fastner and packing gaskets	Each	180.00
4342	Cost of Welding rod LS	Each	90.00
4343	Cost of 100 mm dia Flange	Each	220.00
4344	Cost of 150 mm dia Flange	Each	220.00
4345	Cost of 200 mm dia Flange	Each	340.00
4346	Cost of 8 Nos. Nut bolt fastner and packing gaskets	Each	300.00
4347	Cost of Welding rod LS	Each	120.00
4348	Cost of 250 mm dia Flange	Each	340.00
4349	Cost of 300 mm dia Flange	Each	340.00
4350	Cost of packing gaskets	LS	50.00
4351	Cost of 125 mm dia Flange	Each	220.00
4352	Cost of 80 mm dia Flange	Each	110.00
4353	Cost of 100 mm dia Flange	Each	110.00
4354	Cost of 150 mm dia Flange	Each	110.00
4355	Cost of 25mm dia socket, union, nipples (Lumpsum)	Each	210.00
4356	Cost of 25mm dia gunmetel gate valve	Each	770.00
4357	Cost of 250mm dia air vessel wit air release valve and 25mm dia gunmetel wheel valve for drainage	Each	1400.00
4358	Cost of 15mm dia MS Socket & teflon tape (Lumpsum)	Each	45.00
4359	Cot of teflon tape	Each	20.00
4360	25mm dia MS Socket	Each	45.00
4361	Cost of MS Socket 15mm dia	Each	35.00
4362	Cost of water flow switch	Each	6500.00
4363	Cost of Packing gaskets	LS	50.00
4364	Cost of 4 Nos. Nut Bolt fastner & packing gaskets	LS	90.00
4365	Cost of 12 Nos. Nut bolt fastner and packing gaskets	Each	450.00
	BEE 5 STAR RATED CEILING FAN WITH BRUSH LES DIRECT CURRENT (BLDC) MOTOR		
4400	Basic Price for 1200 mm sweep BLDC Ceiling fan i/c all accessories/fittings/ supports etc.	Each	1900.00

REFERENCE TO AMENDMENTS

S. No.	Reference under which Issued	Item No.	Page No.	Remarks

REFERENCE TO AMENDMENTS

S. No.	Reference under which Issued	Item No.	Page No.	Remarks

REFERENCE TO AMENDMENTS

S. No.	Reference under which Issued	Item No.	Page No.	Remarks

REFERENCE TO AMENDMENTS

S. No.	Reference under which Issued	Item No.	Page No.	Remarks

REFERENCE TO AMENDMENTS

S. No.	Reference under which Issued	Item No.	Page No.	Remarks

EDITORIAL TEAM

Sh. Vimal Kumar
CE CSQ (E)

Sh. Saurabh Kumar
SE(E) TLQA

Sh. Ramayan Prasad Gupta
SE(E) TAS

Sh. Ashok Kumar Meena
EE(E) TAS

Sh. Sandeep Kumar Das
AE (Elect) TAS, CSQ

Sh. Rajeev Bisht
AE (E) TAS

Any Errors, Omissions or Suggestion for modification in this specification may be referred to Chief Engineer, CSQ(E), Nirman Bhawan, New Delhi.

Address:- Room No. 229 A, A-Wing, Nirman Bhawan,
New Delhi

Email Id:- delceecsq.cpwd@gov.in
Tel. No. 011-23061418

Central Public Works Department (CPWD)
In the Service of the nation since 168 Years.

Under the Ministry of Housing and Urban Affairs, Government of India, CPWD provides single window services for all facets of the government built environment in India and abroad.

With its huge resources of skilled and competent engineers, architects and horticulturists, CPWD's strength is its country wide presence, with proven ability to undertake a whole range of complex constructions under difficult terrains. The department has the capacity to undertake a range of work varying from the smallest works in the remotest of places to mega projects in metro cities. These works include the construction and maintenance of government structures such as residential complexes, offices, schools, laboratories, hospitals, sport facilities, stadia, gymnasia, auditoria, storages, highways, flyovers, tunnels, bridges, jetties, airports, runways and border roads, their fencing and flood lighting, high altitude roads, Intra-campus facilities such as water and electric supply. Sewerage and treatment plants are also provided.

CPWD also discharges other functions such as the custody of estates, valuation, rent assessment, technical advice to government, consultancy services, standardization and benchmarking, State Ceremonies (Republic Day, Samadhis, etc.), processing of DPRs for development of urban infrastructure under JNNURM, North Eastern Region and works of other Ministries for centrally funded works. CPWD also assists in organizing public and ceremonial functions, and upkeep of historical and important monuments.

Delhi Analysis of Rates (E & M) 2022

Standardization of rates of items pertaining to Wet riser and Sprinkler System, and BEE 5 Star Rated Ceiling Fan With Brush Less Direct Current (BLDC) Motor works have been added here. This DAR (E&M) 2022 incorporates Schedule of Rates for Internal & External Electrical Works, rates for chilled water pipes, ducting, insulation, valves, AHUs etc. pertaining to low side of Air-conditioning Works, Fire Detection and Alarm System, Wet riser and Sprinkler System and BEE 5 Star Rated Ceiling Fan With Brush Les Direct Current (BLDC) Motor.

CPWD

CENTRAL PUBLIC WORKS DEPARTMENT

Ministry of Housing and Urban Affairs,
Government of India

www.cpwd.gov.in