



सत्यमेव जयते

GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

**DELHI ANALYSIS OF RATES
(E & M)**

2018



DIRECTORATE GENERAL, CPWD, NIRMAN BHAWAN, NEW DELHI-110011



GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
DELHI ANALYSIS OF RATES
(E & M)
2018



DIRECTORATE GENERAL, CPWD, NIRMAL BHAWAN, NEW DELHI-110011

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A GOVERNMENT OF INDIA PUBLICATION

Published by

Director General

Central Public Works Department

Nirman Bhawan

New Delhi-110011



PRABHAKAR SINGH
Director General



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भारत सरकार
Government of India



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FOREWORD

This Delhi Analysis of Rates (E&M) 2018 is a comprehensive and useful document. The input of materials, labour and machinery is based on realistic assessments. DAR (E&M) 2018 contains most of the items of Analysis of Rates (E&M) 2016. 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. 01-04-2018 and material collected during May-June 2018 in Delhi. The analysis of items of Fire Detection and Alarm System have been added in this edition.

In order to arrive 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) 2018 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 put in by Sh. D. K. Tulani, SE(E)TAS, Sh. Pramod Kumar Srivastava, EE(E)TAS, Sh. Rajiv Gupta, EE(E)TLQA, Sh. M. C. Sharma, AE(E)TAS and Sh. H. P. S. Tyagi, AE(E), Sh. Ram Karan, Sh. A. M. Tewari under the guidance of Sh. Prabhakar Singh, the then SDG(DR), Sh. A. S. Arora, ADG(TD) and Sh. C. K. Varma, CE(E)CSQ without which the revision would not have been possible. I also acknowledge the contribution of Sh. Vikas Gupta, CE(PEWZ), Sh. Vimal Kumar, CE(NDZ-II), Sh. N. K. Bansal, SE(E) DCEC-VI, Sh. Ramesh Garg, SE(E) PEWC, Sh. S. S. Garg, SE(E) Vigilance Cell and Sh. Gaurav Yadav, EE(E) PHED in preparing the Chapter of Fire Detection and Alarm System and valuable suggestions of other members of Specification Committee as well as all those involved in the process of preparation of Delhi Analysis of Rates (E&M) 2018. I also thank Sh. J. K. Choudhury, Retd. CE(E) who volunteered to give his inputs and extended his help for the Chapter of Fire Detection and Alarm System.

I am sure that this Analysis of Rates will be useful to all concerned Engineers of CPWD but also to many other engineering organizations of Central/State Governments as well as practicing Architects and E&M Consultants.

Place: New Delhi
Date: July 2018


(PRABHAKAR SINGH)
Director General, CPWD



अवतार सिंह अरोड़ा
AVTAR SINGH ARORA

भारत सरकार
Government of India
अपर महानिदेशक (प्रौ.वि.)
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PREFACE

The Delhi Schedule of Rates (E&M) 2018 which is the revised edition of Delhi Schedule of Rates (E&M) 2016 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.

The Delhi Analysis of Rates (E&M) 2018 is a detailed document based on which Delhi Schedule of Rates (E&M) 2018 is prepared. The rates of all items have been analyzed based on minimum wage rates of labour issued by Government of India for Delhi w.e.f. 01-04-2018 and prevailing market rates of materials (without any taxes etc.) in Delhi collected during May-June 2018. Coefficient of labour and materials have been adopted based on previous Analysis of Rates (E&M) 2016.

The Delhi Analysis of Rates (E&M)-2018 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 and CPWD General Specification for Fire Detection and Alarm System 2018, 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 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 analyzed by the NIT approving authority.
7. A new Chapter for Fire Detection and Alarm System has been added in this DAR (E&M).
8. The effect of GST on Works Contract has been incorporated in all the items.

All efforts have been made to ensure the correctness of the Delhi Analysis of Rates (E&M) 2018. Errors, omissions and/or suggestions for improvement, if any, may kindly be brought to the notice of the Superintending Engineer (E) TAS in the office of the Chief Engineer, CSQ (E), Nirman Bhawan, New Delhi- 110011.

Place: New Delhi
Dated: July 2018


(Avtar Singh Arora)
Addl. Director General (TD)

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GENERAL NOTE

The Analysis of Rate (E&M)-2018 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, General Specification for Fire Detection and Alarm 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 analyzed by the NIT approving authority.

CHAPTER 1 – WIRING

- 1.1 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 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 (Rs.)
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	metre	7.88	9.00	70.92
1201	20 mm dia. ISI marked, steel conduit = 2.5 + 0.13 (wastage @ 5%) = 2.63m	metre	2.63	43.00	113.09
1206	20 mm inspection/ solid bends	each	1.00	7.20	7.20
1211	20 mm sockets	each	0.00	5.00	0.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.50	6.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.50	4.00
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	19.00	19.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.10	7.20
1216	20 mm junction box, one way	each	1.00	15.00	15.00
1431	S.P. 5/6 amps, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					258.61
Cartage @ 1 % of A1					2.59
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.10	612.00	61.20
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.30	553.00	165.90
TOTAL					625.96
Add 12% GST (MF = 0.1405)					87.95
TOTAL					713.90
OVERHEADS & PROFIT @ 15 %					107.09
TOTAL					820.99
Rate per point					820.99
Say					821.00

1.1.2 Group B**COST FOR 1 POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 4 + 1 \times 2 = 10 + 0.5$ (wastage @ 5%) = 10.5m	metre	10.5	9.00	94.50
1201	20 mm dia. ISI marked, steel conduit = $3.5 + 0.18$ (wastage @ 5%) = 3.68m	metre	3.68	43.00	158.24
1206	20 mm inspection/ solid bends	each	1.00	7.20	7.20
1211	20 mm sockets	each	2.00	5.00	10.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.50	4.00
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	19.00	19.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.10	7.20
1216	20 mm junction box, one way	each	1.00	15.00	15.00
1431	S.P. 5/6 amps, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					346.34
Cartage @ 1 % of A1					3.46
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.10	612.00	61.20
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.30	553.00	165.90
TOTAL					714.56
Add 12% GST (MF = 0.1405)					100.40
TOTAL					814.96
OVERHEADS & PROFIT @ 15 %					122.24
TOTAL					937.20
Rate per point					937.20
Say					937.00

1.1.3 Group C**COST FOR 1 POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	metre	13.15	9.00	118.35
1201	20 mm dia. ISI marked, steel conduit = $4.5 + 0.23$ (wastage @ 5%) = 4.73m	metre	4.73	43.00	203.39
1206	20 mm inspection/ solid bends	each	1.00	7.20	7.20
1211	20 mm sockets	each	2.00	5.00	10.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.50	4.00
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	19.00	19.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.10	7.20
1216	20 mm junction box, one way	each	1.00	15.00	15.00
1431	S.P. 5/6 amps, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					415.34
Cartage @ 1 % of A1					4.15
LABOUR					
1001	Wireman	day	0.30	673.00	201.90
1010	Mason, Grade 2	day	0.10	612.00	61.20
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.40	553.00	221.20
TOTAL					906.85
Add 12% GST (MF = 0.1405)					127.41
TOTAL					1034.27
OVERHEADS & PROFIT @ 15 %					155.14
TOTAL					1189.41
Rate per point					1189.41
Say					1189.00

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 (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	metre	13.15	9.00	118.35
1201	20 mm dia. ISI marked, steel conduit = $4.5 + 0.23$ (wastage @ 5%) = 4.73m	metre	4.73	43.00	203.39
1206	20 mm inspection/ solid bends	each	1.00	7.20	7.20
1211	20 mm sockets	each	2.00	5.00	10.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.50	4.00
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	19.00	19.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.10	7.20
1216	20 mm junction box, one way	each	1.00	15.00	15.00
1432	S.P. 5/6 amps, two way switch, piano type ISI marked	each	1.00	16.80	16.80
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1	5.00	5.00
Total cost of materials					422.14
Cartage @ 1 % of A1					4.22
LABOUR					
1001	Wireman	day	0.30	673.00	201.90
1010	Mason, Grade 2	day	0.10	612.00	61.20
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.40	553.00	221.20
TOTAL					913.72
Add 12% GST (MF = 0.1405)					128.38
TOTAL					1042.10
OVERHEADS & PROFIT @ 15 %					156.31
TOTAL					1198.41
Rate per point					1198.41
Say					1198.00

- 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 (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 3 + 1 \times 1.5 = 7.5 + 0.38$ (wastage @ 5%) = 7.88m	metre	7.88	9.00	70.92
1201	20 mm dia. ISI marked, steel conduit = $2.5 + 0.13$ (wastage @ 5%) = 2.63m	metre	2.63	43.00	113.09
1206	20 mm inspection/ solid bends	each	1.00	7.20	7.20
1211	20 mm sockets	each	0.00	5.00	0.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.50	6.00
1216	20 mm junction box, one way	each	1.00	15.00	15.00
1300	Modular GI box for 2 module	each	0.50	22.50	11.25
1421	Modular base & cover plate for 2 module	each	0.50	37.50	18.75
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	1.00	28.00	28.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					276.41
Cartage @ 1 % of A1					2.76
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.10	612.00	61.20
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.30	553.00	165.90
TOTAL					643.93
Add 12% GST (MF = 0.1405)					90.47
TOTAL					734.41
OVERHEADS & PROFIT @ 15 %					110.16
TOTAL					844.57
Rate per point					844.57
Say					845.00

1.3.2 Group B**COST FOR 1 POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 4 + 1 \times 2 = 10 + 0.5$ (wastage @ 5%) = 10.5m	metre	10.5	9.00	94.50
1201	20 mm dia. ISI marked, steel conduit = $3.5 + 0.18$ (wastage @ 5%) = 3.68m	metre	3.68	43.00	158.24
1206	20 mm inspection/ solid bends	each	1.00	7.20	7.20
1211	20 mm sockets	each	2.00	5.00	10.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
1216	20 mm junction box, one way	each	1.00	15.00	15.00
1300	Modular GI box for 2 module	each	0.50	22.50	11.25
1421	Modular base & cover plate for 2 module	each	0.50	37.50	18.75
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	1.00	28.00	28.00
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					364.14
Cartage @ 1 % of A1					3.64
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.10	612.00	61.20
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.30	553.00	165.90
TOTAL					732.54
Add 12% GST (MF = 0.1405)					102.92
TOTAL					835.46
OVERHEADS & PROFIT @ 15 %					125.32
TOTAL					960.78
Rate per point					960.78
Say					961.00

1.3.3 Group C**COST FOR 1POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	metre	13.15	9.00	118.35
1201	20 mm dia. ISI marked, steel conduit = $4.5 + 0.23$ (wastage @ 5%) = 4.73m	metre	4.73	43.00	203.39
1206	20 mm inspection/ solid bends	each	1.00	7.20	7.20
1211	20 mm sockets	each	2.00	5.00	10.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
1216	20 mm junction box, one way	each	1.00	15.00	15.00
1300	Modular GI box for 2 module	each	0.50	22.50	11.25
1421	Modular base & cover plate for 2 module	each	0.50	37.50	18.75
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	1.00	28.00	28.00
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					433.14
Cartage @ 1 % of A1					4.33
LABOUR					
1001	Wireman	day	0.30	673.00	201.90
1010	Mason, Grade 2	day	0.10	612.00	61.20
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.40	553.00	221.20
TOTAL					924.83
Add 12% GST (MF = 0.1405)					129.94
TOTAL					1054.77
OVERHEADS & PROFIT @ 15 %					158.22
TOTAL					1212.99
Rate per point					1212.99
Say					1213.00

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 1POINT

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	metre	13.15	9.00	118.35
1201	20 mm dia. ISI marked, steel conduit = $4.5 + 0.23$ (wastage @ 5%) = 4.73m	metre	4.73	43.00	203.39
1206	20 mm inspection/ solid bends	each	1.00	7.20	7.20
1211	20 mm sockets	each	2.00	5.00	10.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
1216	20 mm junction box, one way	each	1.00	15.00	15.00
1217	20 mm junction box, two way	each	2.00	15.00	30.00
1300	Modular GI box for 2 module	each	0.50	22.50	11.25
1421	Modular base & cover plate for 2 module	each	0.50	37.50	18.75
1403	S.P. 5/6 amps, two way modular switch, ISI marked	each	1.00	56.50	56.50
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					491.64
Cartage @ 1 % of A1					4.92
LABOUR					
1001	Wireman	day	0.30	673.00	201.90
1010	Mason, Grade 2	day	0.10	612.00	61.20
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.40	553.00	221.20
TOTAL					983.92
Add 12% GST (MF = 0.1405)					138.24
TOTAL					1122.16
OVERHEADS & PROFIT @ 15 %					168.32
TOTAL					1290.48
Rate per point					1290.48
Say					1290.00

- 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 (Rs.)
MATERIALS					
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $50.5 \times 3 = 151.5 + 7.58$ (Wastage @ 5%) = 159.08m	metre	159.08	22.00	3499.76
1201	20 mm dia. ISI marked, steel conduit = $50.0 + 2.5$ (Wastage @ 5%) = 52.5m	metre	52.50	43.00	2257.50
1206	20 mm inspection/ solid bends	each	4.00	7.20	28.80
1211	20 mm sockets	each	10.00	5.00	50.00
1217	20 mm junction box, two way	each	6.00	15.00	90.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.50	127.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					6084.06
Cartage @ 1 % of A1					60.84
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	273.00	1.37
1007	Khallasi	day	3.25	553.00	1797.25
TOTAL					10085.02
Add 12% GST (MF = 0.1405)					1416.95
TOTAL					11501.97
OVERHEADS & PROFIT @ 15 %					1725.29
TOTAL					13227.26
Rate per meter					264.55
Say					265.00

**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 (Rs.)
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	metre	318.15	22.00	6999.30
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	55.00	2887.50
1207	25 mm inspection/ solid bends	each	4.00	12.70	50.80
1212	25 mm sockets	each	10.00	5.00	50.00
1217	20 mm junction box, two way	each	6.00	15.00	90.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					10286.60
Cartage @ 1 % of A1					102.87
LABOUR					
1001	Wireman	day	3.00	673.00	2019.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	3.75	553.00	2073.75
TOTAL					14944.28
Add 12% GST (MF = 0.1405)					2099.67
TOTAL					17043.95
OVERHEADS & PROFIT @ 15 %					2556.59
TOTAL					19600.54
Rate per meter					392.01
Say					392.00

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 (Rs.)
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	metre	159.08	9.00	1431.72

1201	20 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	43.00	2257.50
1206	20 mm inspection/ solid bends	each	4.00	7.20	28.80
1211	20 mm sockets	each	15.00	5.00	75.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.50	127.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					3951.02
Cartage @ 1 % of A1					39.51
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	3.25	553.00	1797.25
TOTAL					7932.34
Add 12% GST (MF = 0.1405)					1114.49
TOTAL					9046.83
OVERHEADS & PROFIT @ 15 %					1357.03
TOTAL					10403.86
Rate per meter					208.08
Say					208.00

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 (Rs.)
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	metre	159.08	14.00	2227.12
1201	20 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	43.00	2257.50
1206	20 mm inspection/ solid bends	each	4.00	7.20	28.80
1211	20 mm sockets	each	15.00	5.00	75.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.50	127.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					4746.42

Cartage @ 1 % of A1					47.46
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	3.25	553.00	1797.25
TOTAL					8735.69
Add 12% GST (MF = 0.1405)					1227.37
TOTAL					9963.06
OVERHEADS & PROFIT @ 15 %					1494.46
TOTAL					11457.52
Rate per meter					229.15
Say					229.00

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 (Rs.)
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	metre	159.08	22.00	3499.76
1201	20 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	43.00	2257.50
1206	20 mm inspection/ solid bends	each	4.00	7.20	28.80
1211	20 mm sockets	each	15.00	5.00	75.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.50	127.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					6019.06
Cartage @ 1 % of A1					60.19
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	3.25	553.00	1797.25
TOTAL					10021.06

Add 12% GST (MF = 0.1405)	1407.96
TOTAL	11429.02
OVERHEADS & PROFIT @ 15 %	1714.35
TOTAL	13143.37
Rate per meter	262.87
Say	263.00

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 (Rs.)
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	metre	159.08	32.00	5090.56
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	55.00	2887.50
1207	25 mm inspection/ solid bends	each	4.00	12.70	50.80
1212	25 mm sockets	each	15.00	5.00	75.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					8312.86
Cartage @ 1 % of A1					83.13
LABOUR					
1001	Wireman	day	3.50	673.00	2355.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	4.25	553.00	2350.25
TOTAL					13563.80
Add 12% GST (MF = 0.1405)					1905.71
TOTAL					15469.51
OVERHEADS & PROFIT @ 15 %					2320.43
TOTAL					17789.94
Rate per meter					355.80
Say					356.00

**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 (Rs.)
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	metre	106.05	57.00	6044.85
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	metre	53.03	32.00	1696.96
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	55.00	2887.50
1207	25 mm inspection/ solid bends	each	4.00	12.70	50.80
1212	25 mm sockets	each	15.00	5.00	75.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					10964.11
Cartage @ 1 % of A1					109.64
LABOUR					
1001	Wireman	day	3.50	673.00	2355.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	4.25	553.00	2350.25
TOTAL					16241.56
Add 12% GST (MF = 0.1405)					2281.94
TOTAL					18523.50
OVERHEADS & PROFIT @ 15 %					2778.53
TOTAL					21302.03
Rate per meter					426.04
Say					426.00

**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 (Rs.)
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	metre	106.05	89.00	9438.45

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	metre	53.03	32.00	1696.96
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	80.00	4200.00
1208	32 mm inspection/ solid bends	each	4.00	23.90	95.60
1213	32 mm sockets	each	15.00	6.00	90.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.15	267.75
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					15819.26
Cartage @ 1 % of A1					158.19
LABOUR					
1001	Wireman	day	3.50	673.00	2355.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	4.25	553.00	2350.25
TOTAL					21145.26
Add 12% GST (MF = 0.1405)					2970.91
TOTAL					24116.17
OVERHEADS & PROFIT @ 15 %					3617.43
TOTAL					27733.60
Rate per meter					554.67
Say					555.00

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 (Rs.)
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	metre	318.15	14.00	4454.10
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	55.00	2887.50
1207	25 mm inspection/ solid bends	each	4.00	12.70	50.80
1212	25 mm sockets	each	15.00	5.00	75.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50

2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				7676.40
	Cartage @ 1 % of A1				76.76
	LABOUR				
1001	Wireman	day	3.50	673.00	2355.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	4.25	553.00	2350.25
	TOTAL				12920.97
	Add 12% GST (MF = 0.1405)				1815.40
	TOTAL				14736.37
	OVERHEADS & PROFIT @ 15 %				2210.46
	TOTAL				16946.83
	Rate per meter				338.94
	Say				339.00

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 (Rs.)
	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	metre	318.15	22.00	6999.30
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	55.00	2887.50
1207	25 mm inspection/ solid bends	each	4.00	12.70	50.80
1212	25 mm sockets	each	15.00	5.00	75.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	4.00	4.00
	Total cost of materials				10220.60
	Cartage @ 1 % of A1				102.21
	LABOUR				
1001	Wireman	day	3.50	673.00	2355.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06

1007	Khallasi	day	4.25	553.00	2350.25
	TOTAL				15490.62
	Add 12% GST (MF = 0.1405)				2176.43
	TOTAL				17667.05
	OVERHEADS & PROFIT @ 15 %				2650.06
	TOTAL				20317.11
	Rate per meter				406.34
	Say				406.00

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 (Rs.)
	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	metre	318.15	32.00	10180.80
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	80.00	4200.00
1208	32 mm inspection/ solid bends	each	4.00	23.90	95.60
1213	32 mm sockets	each	15.00	6.00	90.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.15	267.75
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				14864.65
	Cartage @ 1 % of A1				148.65
	LABOUR				
1001	Wireman	day	3.50	673.00	2355.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	4.25	553.00	2350.25
	TOTAL				20181.11
	Add 12% GST (MF = 0.1405)				2835.45
	TOTAL				23016.55
	OVERHEADS & PROFIT @ 15 %				3452.48
	TOTAL				26469.03
	Rate per meter				529.38
	Say				529.00

**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 (Rs.)
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	metre	212.10	57.00	12089.70
1104	6 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable '=50.5x2=101.0+5.05 (Wastage @ 5%)=106.05m	metre	106.1	32.00	3393.60
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	80.00	4200.00
1208	32 mm inspection/ solid bends	each	4.00	23.90	95.60
1213	32 mm sockets	each	15.00	6.00	90.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.15	267.75
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					20167.15
Cartage @ 1 % of A1					201.67
LABOUR					
1001	Wireman	day	3.50	673.00	2355.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	4.25	553.00	2350.25
TOTAL					25536.63
Add 12% GST (MF = 0.1405)					3587.90
TOTAL					29124.53
OVERHEADS & PROFIT @ 15 %					4368.68
TOTAL					33493.21
Rate per meter					669.86
Say					670.00

**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 (Rs.)
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	metre	212.10	89.00	18876.90

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	metre	106.1	32.00	3393.60
1204	40 mm dia. ISI marked, steel conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	135.00	7087.50
1209	40 mm inspection/ solid bends	each	4.00	32.40	129.60
1214	40 mm sockets	each	15.00	9.00	135.00
1221	40 mm iron staples/ saddles/ screws	each	85.00	4.10	348.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					30001.60
Cartage @ 1 % of A1					300.02
LABOUR					
1001	Wireman	day	4.00	673.00	2692.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.01	612.00	3.06
1007	Khallasi	day	4.75	553.00	2626.75
TOTAL					36082.43
Add 12% GST (MF = 0.1405)					5069.58
TOTAL					41152.01
OVERHEADS & PROFIT @ 15 %					6172.80
TOTAL					47324.81
Rate per meter					946.50
Say					946.00

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 (Rs.)
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	metre	7.88	9.00	70.92

1224	20 mm dia. ISI marked, PVC conduit = 2.5 + 0.13 (wastage @ 5%) = 2.63m	metre	2.63	10.44	27.46
1229	20 mm PVC bends	each	1.00	4.71	4.71
1234	20 mm PVC couplers	each	0.00	3.00	0.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.50	6.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.50	4.00
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	19.00	19.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.10	7.20
1239	20 mm PVC junction box, one way	each	1.00	10.00	10.00
1431	S.P. 5/6 amps, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					165.49
Cartage @ 1 % of A1					1.65
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallas	day	0.30	553.00	165.90
TOTAL					528.84
Add 12% GST (MF = 0.1405)					74.30
TOTAL					603.15
OVERHEADS & PROFIT @ 15 %					90.47
TOTAL					693.62
Rate per point					693.62
Say					694.00

1.8.2 Group B**COST FOR 1 POINT**

ICD	Description No	Unit	Qty	Rate	Amount (Rs.)
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	metre	10.50	9.00	94.50
1224	20 mm dia. ISI marked, PVC conduit = 3.5 + 0.18 (wastage @ 5%) = 3.68m	metre	3.68	10.44	38.42

1229	20 mm PVC bends	each	1.00	4.71	4.71
1234	20 mm PVC couplers	each	2.00	3.00	6.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.50	4.00
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	19.00	19.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.10	7.20
1239	20 mm PVC junction box, one way	each	1.00	10.00	10.00
1431	S.P. 5/6 amps, one way switch, piano type ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					215.03
Cartage @ 1 % of A1					2.15
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.30	553.00	165.90
TOTAL					578.88
Add 12% GST (MF = 0.1405)					81.33
TOTAL					660.21
OVERHEADS & PROFIT @ 15 %					99.03
TOTAL					759.24
Rate per point					759.24
Say					759.00

1.8.3 Group C**COST FOR 1 POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	metre	13.15	9.00	118.35
1224	20 mm dia. ISI marked, PVC conduit = $4.5 + 0.23$ (wastage @ 5%) = 4.73m	metre	4.73	10.44	49.38
1229	20 mm PVC bends	each	1.00	4.71	4.71
1234	20 mm PVC couplers	each	2.00	3.00	6.00

1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.50	4.00
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	19.00	19.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.10	7.20
1239	20 mm PVC junction box, one way	each	1.00	10.00	10.00
1431	S.P. 5/6 amps, one way switch, piano type				
	ISI marked	each	1.00	10.00	10.00
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				249.84
	Cartage @ 1 % of A1				2.50
	LABOUR				
1001	Wireman	day	0.30	673.00	201.90
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.40	553.00	221.20
	TOTAL				736.64
	Add 12% GST (MF = 0.1405)				81.33
	TOTAL				840.14
	OVERHEADS & PROFIT @ 15 %				126.02
	TOTAL				966.16
	Rate per point				966.16
	Say				966.00

- 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 (Rs.)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	metre	13.15	9.00	118.35
1224	20 mm dia. ISI marked, PVC conduit = $4.5 + 0.23$ (wastage @ 5%) = 4.73m	metre	4.73	10.44	49.38

1229	20 mm PVC bends	each	1.00	4.71	4.71
1234	20 mm PVC couplers	each	2.00	3.00	6.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	8.00	0.50	4.00
2920	Washers	each	4.00	0.00	0.00
1306	75 mm X 75 mm X 50 mm MS box	each	1.00	19.00	19.00
1322	3 mm thick phenolic laminated sheet	sqcm	72.00	0.10	7.20
1239	20 mm PVC junction box, one way	each	1.00	10.00	10.00
1432	S.P. 5/6 amps, two way switch, piano type ISI marked	each	1.00	16.80	16.80
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					256.64
Cartage @ 1 % of A1					2.57
LABOUR					
1001	Wireman	day	0.30	673.00	201.90
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.40	553.00	221.20
TOTAL					743.51
Add 12% GST (MF = 0.1405)					104.46
TOTAL					847.97
OVERHEADS & PROFIT @ 15 %					127.20
TOTAL					975.17
Rate per point					975.17
Say					975.00

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 (Rs.)
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	metre	7.88	9.00	70.92

1224	20 mm dia. ISI marked, PVC conduit = 2.5 + 0.13 (wastage @ 5%) = 2.63m	metre	2.63	10.44	27.46
1229	20 mm PVC bends	each	1.00	4.71	4.71
1234	20 mm PVC couplers	each	0.00	3.00	0.00
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.50	6.00
1239	20 mm PVC junction box, one way	each	1.00	10.00	10.00
1300	Modular GI box for 2 module	each	0.50	22.50	11.25
1421	Modular base & cover plate for 2 module	each	0.50	37.50	18.75
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	1.00	28.00	28.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					183.29
Cartage @ 1 % of A1					1.83
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.30	553.00	165.90
TOTAL					546.82
Add 12% GST (MF = 0.1405)					76.83
TOTAL					623.65
OVERHEADS & PROFIT @ 15 %					93.55
TOTAL					717.20
Rate per point					717.20
Say					717.00

1.10.2 Group B**COST FOR 1 POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	10.50	9.00	94.50
1224	20 mm dia. ISI marked, PVC conduit = 3.5 + 0.18 (wastage @ 5%) = 3.68m	metre	3.68	10.44	38.42
1229	20 mm PVC bends	each	1.00	4.71	4.71
1234	20 mm PVC couplers	each	2.00	3.00	6.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50

1239	20 mm PVC junction box, one way	each	1.00	10.00	10.00
1300	Modular GI box for 2 module	each	0.50	22.50	11.25
1421	Modular base & cover plate for 2 module	each	0.50	37.50	18.75
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	1.00	28.00	28.00
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					232.83
Cartage @ 1 % of A1					2.33
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.30	553.00	165.90
TOTAL					596.86
Add 12% GST (MF = 0.1405)					83.86
TOTAL					680.72
OVERHEADS & PROFIT @ 15 %					102.11
TOTAL					782.83
Rate per point					782.83
Say					783.00

1.10.3 Group C**COST FOR 1 POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	metre	13.15	9.00	118.35
1224	20 mm dia. ISI marked, PVC conduit = $4.5 + 0.23$ (wastage @ 5%) = 4.73m	metre	4.73	10.44	49.38
1229	20 mm PVC bends	each	1.00	4.71	4.71
1234	20 mm PVC couplers	each	2.00	3.00	6.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
1239	20 mm PVC junction box, one way	each	1.00	10.00	10.00
1300	Modular GI box for 2 module	each	0.50	22.50	11.25
1421	Modular base & cover plate for 2 module	each	0.50	37.50	18.75
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	1.00	28.00	28.00
2857	PVC fastener 40mm long	each	9.00	0.30	2.70

2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				267.64
	Cartage @ 1 % of A1				2.68
	LABOUR				
1001	Wireman	day	0.30	673.00	201.90
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.40	553.00	221.20
	TOTAL				754.62
	Add 12% GST (MF = 0.1405)				106.02
	TOTAL				860.64
	OVERHEADS & PROFIT @ 15 %				129.10
	TOTAL				989.74
	Rate per point				989.74
	Say				990.00

- 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 (Rs.)
	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	metre	13.15	9.00	118.35
1224	20 mm dia. ISI marked, PVC conduit = 4.5 + 0.23 (wastage @ 5%) = 4.73m	metre	4.73	10.44	49.38
1229	20 mm PVC bends	each	1.00	4.71	4.71
1234	20 mm PVC couplers	each	2.00	3.00	6.00
1218	20 mm iron staples/ saddles/ screws	each	9.00	1.50	13.50
1239	20 mm PVC junction box, one way	each	1.00	10.00	10.00
1240	20 mm PVC junction box, two way	each	2.00	11.00	22.00
1300	Modular GI box for 2 module	each	0.50	22.50	11.25
1421	Modular base & cover plate for 2 module	each	0.50	37.50	18.75
1403	S.P. 5/6 amps, two way modular switch, ISI marked	each	1.00	56.50	56.50
2857	PVC fastener 40mm long	each	9.00	0.30	2.70
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				318.14

	Cartage @ 1 % of A1				3.18
	LABOUR				
1001	Wireman	day	0.30	673.00	201.90
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.40	553.00	221.20
	TOTAL				805.62
	Add 12% GST (MF = 0.1405)				113.19
	TOTAL				918.81
	OVERHEADS & PROFIT @ 15 %				137.82
	TOTAL				1056.63
	Rate per point				1056.63
	Say				1057.00

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 (Rs.)
	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	metre	159.08	22.00	3499.76
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	10.44	548.10
1229	20 mm PVC bends	each	4.00	4.71	18.84
1234	20 mm PVC couplers	each	15.00	3.00	45.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.50	127.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				4269.70
	Cartage @ 1 % of A1				42.70
	LABOUR				
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.75	553.00	1520.75
	TOTAL				7638.15

	Add 12% GST (MF = 0.1405)				1073.16
	TOTAL				8711.31
	OVERHEADS & PROFIT @ 15 %				1306.70
	TOTAL				10018.01
	Rate per meter				200.36
	Say				200.00
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 (Rs.)
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	metre	318.15	22.00	6999.30
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	14.00	735.00
1230	25 mm PVC bends	each	4.00	6.40	25.60
1235	25 mm PVC couplers	each	15.00	4.00	60.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				8028.90
	Cartage @ 1 % of A1				80.29
LABOUR					
1001	Wireman	day	2.25	673.00	1514.25
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallas	day	3.00	553.00	1659.00
	TOTAL				11741.44
	Add 12% GST (MF = 0.1405)				1649.67
	TOTAL				13391.11
	OVERHEADS & PROFIT @ 15 %				2008.67
	TOTAL				15399.78
	Rate per meter				308.00
	Say				308.00

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 (Rs.)
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	metre	159.08	9.00	1431.72
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	10.44	548.10
1229	20 mm PVC bends	each	4.00	4.71	18.84
1234	20 mm PVC couplers	each	15.00	3.00	45.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.50	127.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					2201.66
Cartage @ 1 % of A1					22.02
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.75	553.00	1520.75
TOTAL					5549.43
Add 12% GST (MF = 0.1405)					779.69
TOTAL					6329.12
OVERHEADS & PROFIT @ 15 %					949.37
TOTAL					7278.49
Rate per meter					145.57
Say					146.00

**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 (Rs.)
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	metre	159.08	14.00	2227.12

1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	10.44	548.10
1229	20 mm PVC bends	each	4.00	4.71	18.84
1234	20 mm PVC couplers	each	15.00	3.00	45.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.50	127.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					2997.06
Cartage @ 1 % of A1					29.97
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.75	553.00	1520.75
TOTAL					6352.78
Add 12% GST (MF = 0.1405)					892.57
TOTAL					7245.35
OVERHEADS & PROFIT @ 15 %					1086.80
TOTAL					8332.15
Rate per meter					166.64
Say					167.00

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 (Rs.)
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	metre	159.08	22.00	3499.76
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	10.44	548.10
1229	20 mm PVC bends	each	4.00	4.71	18.84
1234	20 mm PVC couplers	each	15.00	3.00	45.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.50	127.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					4269.70
Cartage @ 1 % of A1					42.70

LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.75	553.00	1520.75
TOTAL					7638.15
Add 12% GST (MF = 0.1405)					1073.16
TOTAL					8711.31
OVERHEADS & PROFIT @ 15 %					1306.70
TOTAL					10018.01
Rate per meter					200.36
Say					200.00

**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 (Rs.)
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	metre	159.08	32.00	5090.56
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	14.00	735.00
1230	25 mm PVC bends	each	4.00	6.40	25.60
1235	25 mm PVC couplers	each	15.00	4.00	60.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					6120.16
Cartage @ 1 % of A1					61.20
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.75	553.00	1520.75
TOTAL					9507.11
Add 12% GST (MF = 0.1405)					1335.75
TOTAL					10842.86
OVERHEADS & PROFIT @ 15 %					1626.43
TOTAL					12469.29
Rate per meter					249.39
Say					249.00

**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 (Rs.)
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	metre	106.05	57.00	6044.85
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	metre	53.03	32.00	1696.96
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	14.00	735.00
1230	25 mm PVC bends	each	4.00	6.40	25.60
1235	25 mm PVC couplers	each	15.00	4.00	60.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					8771.41
Cartage @ 1 % of A1					87.71
LABOUR					
1001	Wireman	day	2.25	673.00	1514.25
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	3.00	553.00	1659.00
TOTAL					12491.37
Add 12% GST (MF = 0.1405)					1755.04
TOTAL					14246.41
OVERHEADS & PROFIT @ 15 %					2136.96
TOTAL					16383.37
Rate per meter					327.67
Say					328.00

**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 (Rs.)
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	metre	106.05	89.00	9438.45

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	metre	53.03	32.00	1696.96
1226	32 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	12.79	671.48
1231	32 mm PVC bends	each	4.00	9.00	36.00
1236	32 mm PVC couplers	each	15.00	6.00	90.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.15	267.75
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					12231.14
Cartage @ 1 % of A1					122.31
LABOUR					
1001	Wireman	day	2.25	673.00	1514.25
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	3.00	553.00	1659.00
TOTAL					15985.70
Add 12% GST (MF = 0.1405)					2245.99
TOTAL					18231.69
OVERHEADS & PROFIT @ 15 %					2734.75
TOTAL					20966.44
Rate per meter					419.33
Say					419.00

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 (Rs.)
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	metre	318.15	14.00	4454.10
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	14.00	735.00
1230	25 mm PVC bends	each	4.00	6.40	25.60
1235	25 mm PVC couplers	each	15.00	4.00	60.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50

2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				5483.70
	Cartage @ 1 % of A1				54.84
	LABOUR				
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.75	553.00	1520.75
	TOTAL				8864.29
	Add 12% GST (MF = 0.1405)				1245.43
	TOTAL				10109.72
	OVERHEADS & PROFIT @ 15 %				1516.46
	TOTAL				11626.18
	Rate per meter				232.52
	Say				233.00

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

COST FOR 50 METERS

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	318.15	22.00	6999.30
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	14.00	735.00
1230	25 mm PVC bends	each	4.00	6.40	25.60
1235	25 mm PVC couplers	each	15.00	4.00	60.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				8028.90
	Cartage @ 1 % of A1				80.29
	LABOUR				
1001	Wireman	day	2.25	673.00	1514.25
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	3.00	553.00	1659.00
	TOTAL				11741.44

Add 12% GST (MF = 0.1405)	1649.67
TOTAL	13391.11
OVERHEADS & PROFIT @ 15 %	2008.67
TOTAL	15399.78
Rate per meter	308.00
Say	308.00

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 (Rs.)
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	metre	318.15	32.00	10180.80
1226	32 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	12.79	671.48
1231	32 mm PVC bends	each	4.00	9.00	36.00
1236	32 mm PVC couplers	each	15.00	6.00	90.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.15	267.75
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					11276.53
Cartage @ 1 % of A1					112.77
LABOUR					
1001	Wireman	day	2.25	673.00	1514.25
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	3.00	553.00	1659.00
TOTAL					15021.55
Add 12% GST (MF = 0.1405)					2110.53
TOTAL					17132.07
OVERHEADS & PROFIT @ 15 %					2569.81
TOTAL					19701.88
Rate per meter					394.04
Say					394.00

**1.14.10 4 X 10 sq. mm + 2 X 6 sq. mm earth wire
COST FOR 50 METERS**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	212.10	57.00	12089.70
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	metre	106.1	32.00	3393.60
1226	32 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	12.79	671.48
1231	32 mm PVC bends	each	4.00	9.00	36.00
1236	32 mm PVC couplers	each	15.00	6.00	90.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.15	267.75
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					16579.03
Cartage @ 1 % of A1					165.79
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	3.25	553.00	1797.25
TOTAL					20683.57
Add 12% GST (MF = 0.1405)					2906.04
TOTAL					23589.61
OVERHEADS & PROFIT @ 15 %					3538.44
TOTAL					27128.05
Rate per meter					542.56
Say					543.00

**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 (Rs.)
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	metre	212.10	89.00	18876.90

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	metre	106.1	32.00	3393.60
1227	40 mm dia. ISI marked, PVC conduit = 50.0 + 2.5 (Wastage @ 5%) = 52.5m	metre	52.50	32.12	1686.30
1232	40 mm PVC bends	each	4.00	14.00	56.00
1237	40 mm PVC couplers	each	15.00	7.00	105.00
1221	40 mm iron staples/ saddles/ screws	each	85.00	4.10	348.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					24496.80
Cartage @ 1 % of A1					244.97
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	3.25	553.00	1797.25
TOTAL					28680.52
Add 12% GST (MF = 0.1405)					4029.61
TOTAL					32710.13
OVERHEADS & PROFIT @ 15 %					4906.52
TOTAL					37616.65
Rate per meter					752.33
Say					752.00

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 1 POINT

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	7.88	9.00	70.92
2859	Rubber/ PVC bushes	each	1.00	0.50	0.50

Total cost of materials					71.42
Cartage @ 1 % of A1					0.71
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					317.33
Add 12% GST (MF = 0.1405)					44.59
TOTAL					361.92
OVERHEADS & PROFIT @ 15 %					54.29
TOTAL					416.21
Rate per point					416.21
Say					416.00

1.15.2 Group B**COST FOR 1 POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	10.50	9.00	94.50
2859	Rubber/ PVC bushes	each	1.00	0.50	0.50
Total cost of materials					95.00
Cartage @ 1 % of A1					0.95
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					341.15
Add 12% GST (MF = 0.1405)					47.93
TOTAL					389.08
OVERHEADS & PROFIT @ 15 %					58.36
TOTAL					447.44
Rate per point					447.44
Say					447.00

1.15.3 Group C**COST FOR 1 POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	metre	13.15	9.00	118.35
2859	Rubber/ PVC bushes	each	2.00	0.50	1.00
Total cost of materials					119.35
Cartage @ 1 % of A1					1.19
LABOUR					
1001	Wireman	day	0.30	673.00	201.90
1007	Khallasi	day	0.30	553.00	165.90
TOTAL					488.34
Add 12% GST (MF = 0.1405)					68.61
TOTAL					556.96
OVERHEADS & PROFIT @ 15 %					83.54
TOTAL					640.50
Rate per point					640.50
Say					640.00

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 1 POINT

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $2 \times 5 + 1 \times 2.5 = 12.5 + 0.65$ (wastage @ 5%) = 13.15m	metre	13.15	9.00	118.35
2859	Rubber/ PVC bushes	each	2.00	0.50	1.00
Total cost of materials					119.35
Cartage @ 1 % of A1					1.19
LABOUR					

1001	Wireman	day	0.30	673.00	201.90
1007	Khallasi	day	0.30	553.00	165.90
	TOTAL				488.34
	Add 12% GST (MF = 0.1405)				68.61
	TOTAL				556.96
	OVERHEADS & PROFIT @ 15 %				83.54
	TOTAL				640.50
	Rate per point				640.50
	Say				640.00

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 50 METRES

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	53.03	9.00	477.27
	Total cost of materials				477.27
	Cartage @ 1 % of A1				4.77
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				1095.04
	Add 12% GST (MF = 0.1405)				153.85
	TOTAL				1248.90
	OVERHEADS & PROFIT @ 15 %				187.33
	TOTAL				1436.23
	Rate per meter				28.72
	Say				29.00

1.17.2 2 x 1.5 sq. mm

COST FOR 50 METRES

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	106.05	9.00	954.45

Total cost of materials					954.45
Cartage @ 1 % of A1					9.54
LABOUR					
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
TOTAL					1576.99
Add 12% GST (MF = 0.1405)					221.57
TOTAL					1798.56
OVERHEADS & PROFIT @ 15 %					269.78
TOTAL					2068.34
Rate per meter					41.37
Say					41.00

1.17.3 3 x 1.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	159.08	9.00	1431.72
Total cost of materials					1431.72
Cartage @ 1 % of A1					14.32
LABOUR					
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
TOTAL					2059.04
Add 12% GST (MF = 0.1405)					289.29
TOTAL					2348.33
OVERHEADS & PROFIT @ 15 %					352.25
TOTAL					2700.58
Rate per meter					54.01
Say					54.00

1.17.4 4 x 1.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	212.10	9.00	1908.90
	Total cost of materials				1908.90
	Cartage @ 1 % of A1				19.09
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				2540.99
	Add 12% GST (MF = 0.1405)				357.01
	TOTAL				2898.00
	OVERHEADS & PROFIT @ 15 %				434.70
	TOTAL				3332.70
	Rate per meter				66.65
	Say				67.00

1.17.5 5 x 1.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	265.13	9.00	2386.17
	Total cost of materials				2386.17
	Cartage @ 1 % of A1				23.86
	LABOUR				
1001	Wireman	day	0.75	673.00	504.75
1007	Khallasi	day	0.75	553.00	414.75
	TOTAL				3329.53
	Add 12% GST (MF = 0.1405)				467.80

TOTAL	3797.33
OVERHEADS & PROFIT @ 15 %	569.60
TOTAL	4366.93
Rate per meter	87.34
Say	87.00

1.17.6 6 x 1.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	318.15	9.00	2863.35
	Total cost of materials				2863.35
	Cartage @ 1 % of A1				28.63
LABOUR					
1001	Wireman	day	0.75	673.00	504.75
1007	Khallasi	day	0.75	553.00	414.75
	TOTAL				3811.48
	Add 12% GST (MF = 0.1405)				535.51
	TOTAL				4347.00
	OVERHEADS & PROFIT @ 15 %				652.05
	TOTAL				4999.05
	Rate per meter				99.98
	Say				100.00

1.17.7 7 x 1.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	371.18	9.00	3340.62

Total cost of materials					3340.62
Cartage @ 1 % of A1					33.41
LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
TOTAL					4600.03
Add 12% GST (MF = 0.1405)					646.30
TOTAL					5246.33
OVERHEADS & PROFIT @ 15 %					786.95
TOTAL					6033.28
Rate per meter					120.67
Say					121.00

1.17.8 8 x 1.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	424.20	9.00	3817.80
Total cost of materials					3817.80
Cartage @ 1 % of A1					38.18
LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
TOTAL					5081.98
Add 12% GST (MF = 0.1405)					714.02
TOTAL					5796.00
OVERHEADS & PROFIT @ 15 %					869.40
TOTAL					6665.40
Rate per meter					133.31
Say					133.00

1.17.9 9 x 1.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	477.23	9.00	4295.07

Total cost of materials					4295.07
Cartage @ 1 % of A1					42.95
LABOUR					
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	1.50	553.00	829.50
TOTAL					6177.02
Add 12% GST (MF = 0.1405)					867.87
TOTAL					7044.89
OVERHEADS & PROFIT @ 15 %					1056.73
TOTAL					8101.62
Rate per meter					162.03
Say					162.00

1.17.10 10 x 1.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	530.25	9.00	4772.25
Total cost of materials					4772.25
Cartage @ 1 % of A1					47.72
LABOUR					
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	1.50	553.00	829.50
TOTAL					6658.97
Add 12% GST (MF = 0.1405)					935.59
TOTAL					7594.56
OVERHEADS & PROFIT @ 15 %					1139.18
TOTAL					8733.74
Rate per meter					174.67
Say					175.00

1.17.11 2 x 2.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	106.05	14.00	1484.70
	Total cost of materials				1484.70
	Cartage @ 1 % of A1				14.85
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				2112.55
	Add 12% GST (MF = 0.1405)				296.81
	TOTAL				2409.36
	OVERHEADS & PROFIT @ 15 %				361.40
	TOTAL				2770.76
	Rate per meter				55.42
	Say				55.00

1.17.12 3 x 2.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	159.08	14.00	2227.12
	Total cost of materials				2227.12
	Cartage @ 1 % of A1				22.27
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				2862.39

Add 12% GST (MF = 0.1405)	402.17
TOTAL	3264.56
OVERHEADS & PROFIT @ 15 %	489.68
TOTAL	3754.24
Rate per meter	75.08
Say	75.00

1.17.13 4 x 2.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	212.10	14.00	2969.40
	Total cost of materials				2969.40
	Cartage @ 1 % of A1				29.69
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				3612.09
	Add 12% GST (MF = 0.1405)				507.50
	TOTAL				4119.59
	OVERHEADS & PROFIT @ 15 %				617.94
	TOTAL				4737.53
	Rate per meter				94.75
	Say				95.00

1.17.14 5 x 2.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	265.13	14.00	3711.82

Total cost of materials					3711.82
Cartage @ 1 % of A1					37.12
LABOUR					
1001	Wireman	day	0.75	673.00	504.75
1007	Khallasi	day	0.75	553.00	414.75
TOTAL					4668.44
Add 12% GST (MF = 0.1405)					655.92
TOTAL					5324.35
OVERHEADS & PROFIT @ 15 %					798.65
TOTAL					6123.00
Rate per meter					122.46
Say					122.00

1.17.15 6 x 2.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	318.15	14.00	4454.10
Total cost of materials					4454.10
Cartage @ 1 % of A1					44.54
LABOUR					
1001	Wireman	day	0.75	673.00	504.75
1007	Khallasi	day	0.75	553.00	414.75
TOTAL					5418.14
Add 12% GST (MF = 0.1405)					761.25
TOTAL					6179.39
OVERHEADS & PROFIT @ 15 %					926.91
TOTAL					7106.30
Rate per meter					142.13
Say					142.00

1.17.16 7 x 2.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $50.5 \times 7 = 353.5 + 17.68$ (Wastage @ 5%) = 371.18m	metre	371.18	14.00	5196.52
	Total cost of materials				5196.52
	Cartage @ 1 % of A1				51.97
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				6474.49
	Add 12% GST (MF = 0.1405)				909.67
	TOTAL				7384.15
	OVERHEADS & PROFIT @ 15 %				1107.62
	TOTAL				8491.77
	Rate per meter				169.84
	Say				170.00

1.17.17 8 x 2.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $50.5 \times 8 = 404 + 20.2$ (Wastage @ 5%) = 424.2m	metre	424.20	14.00	5938.80
	Total cost of materials				5938.80
	Cartage @ 1 % of A1				59.39
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				7224.19

Add 12% GST (MF = 0.1405)	1015.00
TOTAL	8239.19
OVERHEADS & PROFIT @ 15 %	1235.88
TOTAL	9475.07
Rate per meter	189.50
Say	190.00

1.17.18 9 x 2.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	477.23	14.00	6681.22
	Total cost of materials				6681.22
	Cartage @ 1 % of A1				66.81
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	1.50	553.00	829.50
	TOTAL				8587.03
	Add 12% GST (MF = 0.1405)				1206.48
	TOTAL				9793.51
	OVERHEADS & PROFIT @ 15 %				1469.03
	TOTAL				11262.54
	Rate per meter				225.25
	Say				225.00

1.17.19 10 x 2.5 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	530.25	14.00	7423.50

Total cost of materials					7423.50
Cartage @ 1 % of A1					74.24
LABOUR					
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	1.50	553.00	829.50
TOTAL					9336.74
Add 12% GST (MF = 0.1405)					1311.81
TOTAL					10648.55
OVERHEADS & PROFIT @ 15 %					1597.28
TOTAL					12245.83
Rate per meter					244.92
Say					245.00

1.17.20 2 x 4 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	106.05	22.00	2333.10
Total cost of materials					2333.10
Cartage @ 1 % of A1					23.33
LABOUR					
1001	Wireman	day	0.75	673.00	504.75
1007	Khallasi	day	0.75	553.00	414.75
TOTAL					3275.93
Add 12% GST (MF = 0.1405)					460.27
TOTAL					3736.20
OVERHEADS & PROFIT @ 15 %					560.43
TOTAL					4296.63
Rate per meter					85.93
Say					86.00

1.17.21 3 x 4 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	159.08	22.00	3499.76
	Total cost of materials				3499.76
	Cartage @ 1 % of A1				35.00
	LABOUR				
1001	Wireman	day	0.75	673.00	504.75
1007	Khallasi	day	0.75	553.00	414.75
	TOTAL				4454.26
	Add 12% GST (MF = 0.1405)				625.82
	TOTAL				5080.08
	OVERHEADS & PROFIT @ 15 %				762.01
	TOTAL				5842.09
	Rate per meter				116.84
	Say				117.00

1.17.22 4 x 4 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable =50.5x4 = 202 + 10.1 (Wastage @ 5%) = 212.1m	metre	212.10	22.00	4666.20
	Total cost of materials				4666.20
	Cartage @ 1 % of A1				46.66
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				5938.86

Add 12% GST (MF = 0.1405)	834.41
TOTAL	6773.27
OVERHEADS & PROFIT @ 15 %	1015.99
TOTAL	7789.26
Rate per meter	155.79
Say	156.00

1.17.23 5 x 4 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	265.13	22.00	5832.86
	Total cost of materials				5832.86
	Cartage @ 1 % of A1				58.33
	LABOUR				
1001	Wireman	day	1.10	673.00	740.30
1007	Khallasi	day	1.10	553.00	608.30
	TOTAL				7239.79
	Add 12% GST (MF = 0.1405)				1017.19
	TOTAL				8256.98
	OVERHEADS & PROFIT @ 15 %				1238.55
	TOTAL				9495.53
	Rate per meter				189.91
	Say				190.00

1.17.24 6 x 4 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	318.15	22.00	6999.30

Total cost of materials					6999.30
Cartage @ 1 % of A1					69.99
LABOUR					
1001	Wireman	day	1.10	673.00	740.30
1007	Khallasi	day	1.10	553.00	608.30
TOTAL					8417.89
Add 12% GST (MF = 0.1405)					1182.71
TOTAL					9600.61
OVERHEADS & PROFIT @ 15 %					1440.09
TOTAL					11040.70
Rate per meter					220.81
Say					221.00

1.17.25 7 x 4 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	371.18	22.00	8165.96
Total cost of materials					8165.96
Cartage @ 1 % of A1					81.66
LABOUR					
1001	Wireman	day	1.15	673.00	773.95
1007	Khallasi	day	1.15	553.00	635.95
TOTAL					9657.52
Add 12% GST (MF = 0.1405)					1356.88
TOTAL					11014.40
OVERHEADS & PROFIT @ 15 %					1652.16
TOTAL					12666.56
Rate per meter					253.33
Say					253.00

1.17.26 8 x 4 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $50.5 \times 8 = 404 + 20.2$ (Wastage @ 5%) = 424.2m	metre	424.20	22.00	9332.40
	Total cost of materials				9332.40
	Cartage @ 1 % of A1				93.32
	LABOUR				
1001	Wireman	day	1.15	673.00	773.95
1007	Khallasi	day	1.15	553.00	635.95
	TOTAL				10835.62
	Add 12% GST (MF = 0.1405)				1522.41
	TOTAL				12358.03
	OVERHEADS & PROFIT @ 15 %				1853.70
	TOTAL				14211.73
	Rate per meter				284.23
	Say				284.00

1.17.27 9 x 4 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $50.5 \times 9 = 454.5 + 22.73$ (Wastage @ 5%) = 477.23m	metre	477.23	22.00	10499.06
	Total cost of materials				10499.06
	Cartage @ 1 % of A1				104.99
	LABOUR				
1001	Wireman	day	1.25	673.00	841.25
1007	Khallasi	day	1.25	553.00	691.25
	TOTAL				12136.55

Add 12% GST (MF = 0.1405)	1705.19
TOTAL	13841.74
OVERHEADS & PROFIT @ 15 %	2076.26
TOTAL	15918.00
Rate per meter	318.36
Say	318.00

1.17.28 10 x 4 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	530.25	22.00	11665.50
	Total cost of materials				11665.50
	Cartage @ 1 % of A1				116.66
LABOUR					
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	1.50	553.00	829.50
	TOTAL				13621.16
	Add 12% GST (MF = 0.1405)				1913.77
	TOTAL				15534.93
	OVERHEADS & PROFIT @ 15 %				2330.24
	TOTAL				17865.17
	Rate per meter				357.30
	Say				357.00

1.17.29 2 x 6 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	106.05	32.00	3393.60

Total cost of materials					3393.60
Cartage @ 1 % of A1					33.94
LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
TOTAL					4653.54
Add 12% GST (MF = 0.1405)					653.82
TOTAL					5307.36
OVERHEADS & PROFIT @ 15 %					796.10
TOTAL					6103.46
Rate per meter					122.07
Say					122.00

1.17.30 3 x 6 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	159.08	32.00	5090.56
Total cost of materials					5090.56
Cartage @ 1 % of A1					50.91
LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
TOTAL					6367.47
Add 12% GST (MF = 0.1405)					894.63
TOTAL					7262.09
OVERHEADS & PROFIT @ 15 %					1089.31
TOTAL					8351.40
Rate per meter					167.03
Say					167.00

1.17.31 4 x 6 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	212.10	32.00	6787.20
	Total cost of materials				6787.20
	Cartage @ 1 % of A1				67.87
	LABOUR				
1001	Wireman	day	1.25	673.00	841.25
1007	Khallasi	day	1.25	553.00	691.25
	TOTAL				8387.57
	Add 12% GST (MF = 0.1405)				1178.45
	TOTAL				9566.03
	OVERHEADS & PROFIT @ 15 %				1434.90
	TOTAL				11000.93
	Rate per meter				220.02
	Say				220.00

1.17.32 5 x 6 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	265.13	32.00	8484.16
	Total cost of materials				8484.16
	Cartage @ 1 % of A1				84.84
	LABOUR				
1001	Wireman	day	1.25	673.00	841.25
1007	Khallasi	day	1.25	553.00	691.25
	TOTAL				10101.50

Add 12% GST (MF = 0.1405)	1419.26
TOTAL	11520.76
OVERHEADS & PROFIT @ 15 %	1728.11
TOTAL	13248.87
Rate per meter	264.98
Say	265.00

1.17.33 6 x 6 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	318.15	32.00	10180.80
	Total cost of materials				10180.80
	Cartage @ 1 % of A1				101.81
	LABOUR				
1001	Wireman	day	1.75	673.00	1177.75
1007	Khallasi	day	1.75	553.00	967.75
	TOTAL				12428.11
	Add 12% GST (MF = 0.1405)				1746.15
	TOTAL				14174.26
	OVERHEADS & PROFIT @ 15 %				2126.14
	TOTAL				16300.40
	Rate per meter				326.01
	Say				326.00

1.17.34 7 x 6 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	371.18	32.00	11877.76

Total cost of materials					11877.76
Cartage @ 1 % of A1					118.78
LABOUR					
1001	Wireman	day	1.75	673.00	1177.75
1007	Khallasi	day	1.75	553.00	967.75
TOTAL					14142.04
Add 12% GST (MF = 0.1405)					1986.96
TOTAL					16128.99
OVERHEADS & PROFIT @ 15 %					2419.35
TOTAL					18548.34
Rate per meter					370.97
Say					371.00

1.17.35 8 x 6 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	424.20	32.00	13574.40
Total cost of materials					13574.40
Cartage @ 1 % of A1					135.74
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1007	Khallasi	day	2.00	553.00	1106.00
TOTAL					16162.14
Add 12% GST (MF = 0.1405)					2270.78
TOTAL					18432.93
OVERHEADS & PROFIT @ 15 %					2764.94
TOTAL					21197.87
Rate per meter					423.96
Say					424.00

1.17.36 9 x 6 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	477.23	32.00	15271.36
	Total cost of materials				15271.36
	Cartage @ 1 % of A1				152.71
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1007	Khallasi	day	2.00	553.00	1106.00
	TOTAL				17876.07
	Add 12% GST (MF = 0.1405)				2511.59
	TOTAL				20387.66
	OVERHEADS & PROFIT @ 15 %				3058.15
	TOTAL				23445.81
	Rate per meter				468.92
	Say				469.00

1.17.37 10 x 6 sq. mm**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	530.25	32.00	16968.00
	Total cost of materials				16968.00
	Cartage @ 1 % of A1				169.68
LABOUR					
1001	Wireman	day	2.13	673.00	1433.49
1007	Khallasi	day	2.13	553.00	1177.89
	TOTAL				19749.06

Add 12% GST (MF = 0.1405)	2774.74
TOTAL	22523.80
OVERHEADS & PROFIT @ 15 %	3378.57
TOTAL	25902.37
Rate per meter	518.05
Say	518.00

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 METRES

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1111	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable = $50.5 \times 1 = 50.5 + 2.53$ (Wastage @ 5%) = 53.03m	metre	53.03	2.00	106.06
	Total cost of materials				106.06
	Cartage @ 1 % of A1				1.06
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				720.12
	Add 12% GST (MF = 0.1405)				101.18
	TOTAL				821.30
	OVERHEADS & PROFIT @ 15 %				123.19
	TOTAL				944.49
	Rate per meter				18.89
	Say				19.00

1.18.2 2 Pair

COST FOR 50 METRES

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1112	2 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable = $50.5 \times 1 = 50.5 + 2.53$ (Wastage @ 5%) = 53.03m	metre	53.03	3.00	159.09
	Total cost of materials				159.09

	Cartage @ 1 % of A1				1.59
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				773.68
	Add 12% GST (MF = 0.1405)				108.70
	TOTAL				882.38
	OVERHEADS & PROFIT @ 15 %				132.36
	TOTAL				1014.74
	Rate per meter				20.29
	Say				20.00

1.18.3 4 Pair**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	53.03	9.00	477.27
	Total cost of materials				477.27
	Cartage @ 1 % of A1				4.77
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				1095.04
	Add 12% GST (MF = 0.1405)				153.85
	TOTAL				1248.90
	OVERHEADS & PROFIT @ 15 %				187.33
	TOTAL				1436.23
	Rate per meter				28.72
	Say				29.00

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 METRES					
ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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 = $50.5 \times 1 = 50.5 + 2.53$ (Wastage @ 5%) = 53.03m	metre	53.03	12.32	653.33
	Total cost of materials				653.33
	Cartage @ 1 % of A1				6.53
LABOUR					
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				1272.86
	Add 12% GST (MF = 0.1405)				178.84
	TOTAL				1451.70
	OVERHEADS & PROFIT @ 15 %				217.76
	TOTAL				1669.46
	Rate per meter				33.39
	Say				33.00

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 (Rs.)
1201	20 mm dia. ISI marked, steel conduit = $50.0 + 2.50$ (Wastage @ 5%) = 52.50m	metre	52.50	43.00	2257.50
1206	20 mm inspection/ solid bends	each	4.00	7.20	28.80
1211	20 mm sockets	each	15.00	5.00	75.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.50	127.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	LS	1.00	5.00	5.00
	Total cost of materials				2519.30
	Cartage @ 1 % of A1				25.19
LABOUR					

1001	Wireman	day	1.75	673.00	1177.75
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	2.50	553.00	1382.50
	TOTAL				5566.80
	Add 12% GST (MF = 0.1405)				782.14
	TOTAL				6348.94
	OVERHEADS & PROFIT @ 15 %				952.34
	TOTAL				7301.28
	Rate per meter				146.03
	Say				146.00

1.20.2 25 mm**COST FOR 50 METERS**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
1202	25 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	metre	52.50	55.00	2887.50
1207	25 mm inspection/ solid bends	each	4.00	12.70	50.80
1212	25 mm sockets	each	15.00	5.00	75.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	LS	1.00	5.00	5.00
	Total cost of materials				3222.30
	Cartage @ 1 % of A1				32.22
	LABOUR				
1001	Wireman	day	1.75	673.00	1177.75
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	2.50	553.00	1382.50
	TOTAL				6276.83
	Add 12% GST (MF = 0.1405)				881.90
	TOTAL				7158.73
	OVERHEADS & PROFIT @ 15 %				1073.81
	TOTAL				8232.54
	Rate per meter				164.65
	Say				165.00

1.20.3 32 mm**COST FOR 50 METERS**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
1203	32 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	metre	52.50	80.00	4200.00
1208	32 mm inspection/ solid bends	each	4.00	23.90	95.60
1213	32 mm sockets	each	15.00	6.00	90.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.15	267.75
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	LS	1.00	5.00	5.00
	Total cost of materials				4683.85
	Cartage @ 1 % of A1				46.84
	LABOUR				
1001	Wireman	day	1.75	673.00	1177.75
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	2.50	553.00	1382.50
	TOTAL				7753.00
	Add 12% GST (MF = 0.1405)				1089.30
	TOTAL				8842.29
	OVERHEADS & PROFIT @ 15 %				1326.34
	TOTAL				10168.63
	Rate per meter				203.37
	Say				203.00

1.20.4 40 mm**COST FOR 50 METERS**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
1204	40 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	metre	52.50	135.00	7087.50
1209	40 mm inspection/ solid bends	each	4.00	32.40	129.60
1214	40 mm sockets	each	15.00	9.00	135.00
1221	40 mm iron staples/ saddles/ screws	each	85.00	4.10	348.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	LS	1.00	5.00	5.00
	Total cost of materials				7731.10

Cartage @ 1 % of A1					77.31
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	2.75	553.00	1520.75
TOTAL					11137.22
Add 12% GST (MF = 0.1405)					1564.78
TOTAL					12702.00
OVERHEADS & PROFIT @ 15 %					1905.30
TOTAL					14607.30
Rate per meter					292.15
Say					292.00

1.20.5 50 mm**COST FOR 50 METERS**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
1205	50 mm dia. ISI marked, steel conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	metre	52.50	185.00	9712.50
1210	50 mm inspection/ solid bends	each	4.00	47.40	189.60
1215	50 mm sockets	each	15.00	13.15	197.25
1222	50 mm iron staples/ saddles/ screws	each	85.00	5.40	459.00
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	LS	1.00	5.00	5.00
Total cost of materials					10588.85
Cartage @ 1 % of A1					105.89
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	2.75	553.00	1520.75
TOTAL					14023.55
Add 12% GST (MF = 0.1405)					1970.31
TOTAL					15993.86
OVERHEADS & PROFIT @ 15 %					2399.08
TOTAL					18392.94
Rate per meter					367.86
Say					368.00

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 (Rs.)
1224	20 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	metre	52.50	10.44	548.10
1229	20 mm PVC bends	each	4.00	4.71	18.84
1234	20 mm PVC couplers	each	15.00	3.00	45.00
1218	20 mm iron staples/ saddles/ screws	each	85.00	1.50	127.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	LS	1.00	5.00	5.00
	Total cost of materials				769.94
	Cartage @ 1 % of A1				7.70
	LABOUR				
1001	Wireman	day	1.25	673.00	841.25
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.00	553.00	1106.00
	TOTAL				3183.89
	Add 12% GST (MF = 0.1405)				447.34
	TOTAL				3631.23
	OVERHEADS & PROFIT @ 15 %				544.68
	TOTAL				4175.91
	Rate per meter				83.52
	Say				84.00

1.21.2 25 mm

COST FOR 50 METERS

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
1225	25 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	metre	52.50	14.00	735.00
1230	25 mm PVC bends	each	4.00	6.40	25.60
1235	25 mm PVC couplers	each	15.00	4.00	60.00
1219	25 mm iron staples/ saddles/ screws	each	85.00	2.10	178.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	LS	1.00	5.00	5.00

Total cost of materials					1029.60
Cartage @ 1 % of A1					10.30
LABOUR					
1001	Wireman	day	1.25	673.00	841.25
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.00	553.00	1106.00
TOTAL					3446.15
Add 12% GST (MF = 0.1405)					484.18
TOTAL					3930.33
OVERHEADS & PROFIT @ 15 %					589.55
TOTAL					4519.88
Rate per meter					90.40
Say					90.00

1.21.3 32 mm**COST FOR 50 METERS**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
1226	32 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	metre	52.50	12.79	671.48
1231	32 mm PVC bends	each	4.00	9.00	36.00
1236	32 mm PVC couplers	each	15.00	6.00	90.00
1220	32 mm iron staples/ saddles/ screws	each	85.00	3.15	267.75
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	LS	1.00	5.00	5.00
Total cost of materials					1095.73
Cartage @ 1 % of A1					10.96
LABOUR					
1001	Wireman	day	1.25	673.00	841.25
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.00	553.00	1106.00
TOTAL					3512.94
Add 12% GST (MF = 0.1405)					493.57
TOTAL					4006.50
OVERHEADS & PROFIT @ 15 %					600.98
TOTAL					4607.48
Rate per meter					92.15
Say					92.00

1.21.4 40 mm**COST FOR 50 METERS**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
1227	40 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	metre	52.50	32.12	1686.30
1232	40 mm PVC bends	each	4.00	14.00	56.00
1237	40 mm PVC couplers	each	15.00	7.00	105.00
1221	40 mm iron staples/ saddles/ screws	each	85.00	4.10	348.50
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	LS	1.00	5.00	5.00
	Total cost of materials				2226.30
	Cartage @ 1 % of A1				22.26
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.25	553.00	1244.25
	TOTAL				4961.31
	Add 12% GST (MF = 0.1405)				697.06
	TOTAL				5658.38
	OVERHEADS & PROFIT @ 15 %				848.76
	TOTAL				6507.14
	Rate per meter				130.14
	Say				130.00

1.21.5 50 mm**COST FOR 50 METERS**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
1228	50 mm dia. ISI marked, PVC conduit = 50.0 + 2.50 (Wastage @ 5%) = 52.50m	metre	52.50	48.55	2548.88
1233	50 mm PVC bends	each	4.00	24.00	96.00
1238	50 mm PVC couplers	each	15.00	9.00	135.00
1222	50 mm iron staples/ saddles/ screws	each	85.00	5.40	459.00
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
2935	Cement, paint, sand etc.	LS	1.00	5.00	5.00
	Total cost of materials				3269.38

	Cartage @ 1 % of A1				32.69
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.25	553.00	1244.25
	TOTAL				6014.82
	Add 12% GST (MF = 0.1405)				845.08
	TOTAL				6859.91
	OVERHEADS & PROFIT @ 15 %				1028.99
	TOTAL				7888.90
	Rate per meter				157.78
	Say				158.00

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 (Rs.)
	MATERIALS				
1306	75 mm X 75 mm X 60 mm deep metal box	each	1.00	19.00	19.00
1322	3 mm thick phenolic laminated sheet	sqcm	64.00	0.10	6.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.50	1.00
2920	Washers	each	2.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				32.00
	Cartage @ 1 % of A1				0.32
	LABOUR				
1001	Wireman	day	0.02	673.00	13.46
1010	Mason, Grade 2	day	0.04	612.00	24.48
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				106.50
	Add 12% GST (MF = 0.1405)				14.96
	TOTAL				121.46
	OVERHEADS & PROFIT @ 15 %				18.22
	TOTAL				139.68
	Rate per Each				139.68
	Say				140.00

1.22.2 100 mm X 100 mm X 60 mm deep**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1307	100 mm X 100 mm X 60 mm deep metal box	each	1.00	29.00	29.00
1322	3 mm thick phenolic laminated sheet	sqcm	121.00	0.10	12.10
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.50	1.00
2920	Washers	each	2.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					47.70
Cartage @ 1 % of A1					0.48
LABOUR					
1001	Wireman	day	0.02	673.00	13.46
1010	Mason, Grade 2	day	0.04	612.00	24.48
1006	Painter	day	0.005	612.00	3.06
1007	Khallas	day	0.06	553.00	33.18
TOTAL					122.36
Add 12% GST (MF = 0.1405)					17.19
TOTAL					139.55
OVERHEADS & PROFIT @ 15 %					20.93
TOTAL					160.48
Rate per Each					160.48
Say					160.00

1.22.3 150 mm X 75 mm X 60 mm deep**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1308	150 mm X 75 mm X 60 mm deep metal box	each	1.00	30.90	30.90
1322	3 mm thick phenolic laminated sheet	sqcm	136.00	0.10	13.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.50	1.00
2920	Washers	each	2.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					51.10
Cartage @ 1 % of A1					0.51

LABOUR					
1001	Wireman	day	0.02	673.00	13.46
1010	Mason, Grade 2	day	0.04	612.00	24.48
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.06	553.00	33.18
TOTAL					125.79
Add 12% GST (MF = 0.1405)					17.67
TOTAL					143.46
OVERHEADS & PROFIT @ 15 %					21.52
TOTAL					164.98
Rate per Each					164.98
Say					165.00

1.22.4 150 mm X 150 mm X 60 mm deep**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1309	150 mm X 150 mm X 60 mm deep metal box	each	1.00	44.35	44.35
1322	3 mm thick phenolic laminated sheet	sqcm	256.00	0.10	25.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					78.15
Cartage @ 1 % of A1					0.78
LABOUR					
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.05	612.00	30.60
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.080	553.00	44.24
TOTAL					177.02
Add 12% GST (MF = 0.1405)					24.87
TOTAL					201.89
OVERHEADS & PROFIT @ 15 %					30.28
TOTAL					232.17
Rate per Each					232.17
Say					232.00

1.22.5 180 mm X 100 mm X 60 mm**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1310	180 mm X 100 mm X 60 mm deep metal box	each	1.00	37.30	37.30
1322	3 mm thick phenolic laminated sheet	sqcm	205.00	0.10	20.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.50	1.00
2920	Washers	each	2.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					64.40
Cartage @ 1 % of A1					0.64
LABOUR					
1001	Wireman	day	0.020	673.00	13.46
1010	Mason, Grade 2	day	0.04	612.00	24.48
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.06	553.00	33.18
TOTAL					139.22
Add 12% GST (MF = 0.1405)					19.56
TOTAL					158.78
OVERHEADS & PROFIT @ 15 %					23.82
TOTAL					182.60
Rate per Each					182.60
Say					183.00

1.22.6 200 mm X 125 mm X 60 mm**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1311	200 mm X 125 mm X 60 mm deep metal box	each	1.00	46.50	46.50
1322	3 mm thick phenolic laminated sheet	sqcm	284.00	0.10	28.40
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					83.10

Cartage @ 1 % of A1					0.83
LABOUR					
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.05	612.00	30.60
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.080	553.00	44.24
TOTAL					182.02
Add 12% GST (MF = 0.1405)					25.57
TOTAL					207.59
OVERHEADS & PROFIT @ 15 %					31.14
TOTAL					238.73
Rate per Each					238.73
Say					239.00

1.22.7 200 mm X 150 mm X 60 mm**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1312	200 mm X 150 mm X 60 mm deep metal box	each	1.00	58.00	58.00
1322	3 mm thick phenolic laminated sheet	sqcm	336.00	0.10	33.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					99.80
Cartage @ 1 % of A1					1.00
LABOUR					
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.05	612.00	30.60
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.080	553.00	44.24
TOTAL					198.89
Add 12% GST (MF = 0.1405)					27.94
TOTAL					226.83
OVERHEADS & PROFIT @ 15 %					34.02
TOTAL					260.85
Rate per Each					260.85
Say					261.00

1.22.8 200 mm X 150 mm X 75 mm**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1316	200 mm X 150 mm X 75 mm deep metal box	each	1.00	63.50	63.50
1322	3 mm thick phenolic laminated sheet	sqcm	336.00	0.10	33.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					105.30
Cartage @ 1 % of A1					1.05
LABOUR					
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.05	612.00	30.60
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.080	553.00	44.24
TOTAL					204.44
Add 12% GST (MF = 0.1405)					28.72
TOTAL					233.17
OVERHEADS & PROFIT @ 15 %					34.98
TOTAL					268.15
Rate per Each					268.15
Say					268.00

1.22.9 200 mm X 250 mm X 60 mm**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1313	200 mm X 250 mm X 60 mm deep metal box	each	1.00	75.00	75.00
1322	3 mm thick phenolic laminated sheet	sqcm	557.00	0.10	55.70
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	2.00	5.00	10.00
Total cost of materials					143.90

	Cartage @ 1 % of A1				1.44
	LABOUR				
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.06	612.00	36.72
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.090	553.00	49.77
	TOTAL				255.08
	Add 12% GST (MF = 0.1405)				35.84
	TOTAL				290.92
	OVERHEADS & PROFIT @ 15 %				43.64
	TOTAL				334.56
	Rate per Each				334.56
	Say				335.00

1.22.10 200 mm X 250 mm X 75 mm**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1317	200 mm X 250 mm X 75 mm deep metal box	each	1.00	87.50	87.50
1322	3 mm thick phenolic laminated sheet	sqcm	557.00	0.10	55.70
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	2.00	5.00	10.00
	Total cost of materials				156.40
	Cartage @ 1 % of A1				1.56
	LABOUR				
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.06	612.00	36.72
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.090	553.00	49.77
	TOTAL				267.70
	Add 12% GST (MF = 0.1405)				37.61
	TOTAL				305.32
	OVERHEADS & PROFIT @ 15 %				45.80
	TOTAL				351.12
	Rate per Each				351.12
	Say				351.00

1.22.11 200 mm X 150 mm X 100 mm
COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1318	200 mm X 150 mm X 100 mm deep metal box	each	1.00	77.00	77.00
1322	3 mm thick phenolic laminated sheet	sqcm	336.00	0.10	33.60
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	2.00	5.00	10.00
	Total cost of materials				123.80
	Cartage @ 1 % of A1				1.24
	LABOUR				
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.06	612.00	36.72
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.090	553.00	49.77
	TOTAL				234.78
	Add 12% GST (MF = 0.1405)				32.99
	TOTAL				267.76
	OVERHEADS & PROFIT @ 15 %				40.16
	TOTAL				307.92
	Rate per Each				307.92
	Say				308.00

1.22.12 200 mm X 250 mm X 100 mm
COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1319	200 mm X 250 mm X 100 mm deep metal box	each	1.00	98.80	98.80
1322	3 mm thick phenolic laminated sheet	sqcm	557.00	0.10	55.70
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	2.00	5.00	10.00
	Total cost of materials				167.70
	Cartage @ 1 % of A1				1.68
	LABOUR				

1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.06	612.00	36.72
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.090	553.00	49.77
	TOTAL				279.12
	Add 12% GST (MF = 0.1405)				39.22
	TOTAL				318.33
	OVERHEADS & PROFIT @ 15 %				47.75
	TOTAL				366.08
	Rate per Each				366.08
	Say				366.00

1.22.13 200 mm X 300 mm X 60 mm**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1314	200 mm X 300 mm X 60 mm deep metal box	each	1.00	104.00	104.00
1322	3 mm thick phenolic laminated sheet	sqcm	662.00	0.10	66.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	2.00	5.00	10.00
	Total cost of materials				183.40
	Cartage @ 1 % of A1				1.83
	LABOUR				
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.06	612.00	36.72
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.090	553.00	49.77
	TOTAL				294.97
	Add 12% GST (MF = 0.1405)				41.44
	TOTAL				336.42
	OVERHEADS & PROFIT @ 15 %				50.46
	TOTAL				386.88
	Rate per Each				386.88
	Say				387.00

1.22.14 200 mm X 300 mm X 100 mm**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1320	200 mm X 300 mm X 100 mm deep metal box	each	1.00	116.00	116.00
1322	3 mm thick phenolic laminated sheet	sqcm	662.00	0.10	66.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	2.00	5.00	10.00
Total cost of materials					195.40
Cartage @ 1 % of A1					1.95
LABOUR					
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.06	612.00	36.72
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.090	553.00	49.77
TOTAL					307.09
Add 12% GST (MF = 0.1405)					43.15
TOTAL					350.24
OVERHEADS & PROFIT @ 15 %					52.54
TOTAL					402.78
Rate per Each					402.78
Say					403.00

1.22.15 250 mm X 300 mm X 60 mm**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1315	250 mm X 300 mm X 60 mm deep metal box	each	1.00	116.00	116.00
1322	3 mm thick phenolic laminated sheet	sqcm	835.00	0.10	83.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	2.00	5.00	10.00
Total cost of materials					212.70
Cartage @ 1 % of A1					2.13

LABOUR					
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.06	612.00	36.72
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.090	553.00	49.77
TOTAL					324.57
Add 12% GST (MF = 0.1405)					45.60
TOTAL					370.17
OVERHEADS & PROFIT @ 15 %					55.53
TOTAL					425.70
Rate per Each					425.70
Say					426.00

1.22.16 250 mm X 300 mm X 100 mm**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1321	250 mm X 300 mm X 100 mm deep metal box	each	1.00	145.30	145.30
1322	3 mm thick phenolic laminated sheet	sqcm	835.00	0.10	83.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	2.00	5.00	10.00
Total cost of materials					242.00
Cartage @ 1 % of A1					2.42
LABOUR					
1001	Wireman	day	0.030	673.00	20.19
1010	Mason, Grade 2	day	0.06	612.00	36.72
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.090	553.00	49.77
TOTAL					354.16
Add 12% GST (MF = 0.1405)					49.76
TOTAL					403.92
OVERHEADS & PROFIT @ 15 %					60.59
TOTAL					464.51
Rate per Each					464.51
Say					465.00

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 amps switch
COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1431	S.P. 5/6 amps, 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	673.00	13.46
1007	Khallasi	day	0.02	553.00	11.06
	TOTAL				34.62
	Add 12% GST (MF = 0.1405)				4.86
	TOTAL				39.48
	OVERHEADS & PROFIT @ 15 %				5.92
	TOTAL				45.40
	Rate per Each				45.40
	Say				45.00

**1.23.2 2 way 5/6 amps switch
COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1432	S.P. 5/6 amps, two way switch, piano type ISI marked	each	1.00	16.80	16.80
	Total cost of materials				16.80
	Cartage @ 1 % of A1				0.17
	LABOUR				
1001	Wireman	day	0.02	673.00	13.46
1007	Khallasi	day	0.02	553.00	11.06
	TOTAL				41.49
	Add 12% GST (MF = 0.1405)				5.83

TOTAL	47.32
OVERHEADS & PROFIT @ 15 %	7.10
TOTAL	54.42
Rate per Each	54.42
Say	54.00

1.23.3 15/16 amp switch**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1433	S.P. 15/16 amps, one way switch, piano type ISI marked	each	1.00	46.80	46.80
	Total cost of materials				46.80
	Cartage @ 1 % of A1				0.47
LABOUR					
1001	Wireman	day	0.03	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
	TOTAL				84.05
	Add 12% GST (MF = 0.1405)				11.81
	TOTAL				95.86
	OVERHEADS & PROFIT @ 15 %				14.38
	TOTAL				110.24
	Rate per Each				110.24
	Say				110.00

1.23.4 3 pin 5/6 amp socket outlet**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1434	3 pin 5/6 amps socket outlet, piano type ISI marked	each	1.00	19.20	19.20
	Total cost of materials				19.20
	Cartage @ 1 % of A1				0.19
LABOUR					
1001	Wireman	day	0.02	673.00	13.46
1007	Khallasi	day	0.02	553.00	11.06

TOTAL	43.91
Add 12% GST (MF = 0.1405)	6.17
TOTAL	50.08
OVERHEADS & PROFIT @ 15 %	7.51
TOTAL	57.59
Rate per Each	57.59
Say	58.00

1.23.5 6 pin 15/16 amp socket outlet**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1435	6 pin 15/16 & 5/6 amps 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	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
	TOTAL				97.38
	Add 12% GST (MF = 0.1405)				13.68
	TOTAL				111.06
	OVERHEADS & PROFIT @ 15 %				16.66
	TOTAL				127.72
	Rate per Each				127.72
	Say				128.00

1.23.6 Telephone socket outlet**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1437	Telephone Socket outlet piano type	each	1.00	20.00	20.00
	Total cost of materials				20.00
	Cartage @ 1 % of A1				0.20
LABOUR					
1001	Wireman	day	0.03	673.00	20.19

1007	Khallasi	day	0.03	553.00	16.59
	TOTAL				56.98
	Add 12% GST (MF = 0.1405)				8.01
	TOTAL				64.99
	OVERHEADS & PROFIT @ 15 %				9.75
	TOTAL				74.74
	Rate per Each				74.74
	Say				75.00

1.23.7 TV antenna socket outlet**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1438	T.V. Socket outlet piano type	each	1.00	21.00	21.00
	Total cost of materials				21.00
	Cartage @ 1 % of A1				0.21
	LABOUR				
1001	Wireman	day	0.03	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
	TOTAL				57.99
	Add 12% GST (MF = 0.1405)				8.15
	TOTAL				66.14
	OVERHEADS & PROFIT @ 15 %				9.92
	TOTAL				76.06
	Rate per Each				76.06
	Say				76.00

1.23.8 Bell push**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1436	Bell push, piano type	each	1.00	12.00	12.00
	Total cost of materials				12.00
	Cartage @ 1 % of A1				0.12
	LABOUR				
1001	Wireman	day	0.03	673.00	20.19

1007	Khallasi	day	0.03	553.00	16.59
	TOTAL				48.90
	Add 12% GST (MF = 0.1405)				6.87
	TOTAL				55.77
	OVERHEADS & PROFIT @ 15 %				8.37
	TOTAL				64.14
	Rate per Each				64.14
	Say				64.00

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 amps switch
COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1402	S.P. 5/6 amps, one way modular switch, ISI marked	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	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
	TOTAL				65.06
	Add 12% GST (MF = 0.1405)				9.14
	TOTAL				74.20
	OVERHEADS & PROFIT @ 15 %				11.13
	TOTAL				85.33
	Rate per Each				85.33
	Say				85.00

**1.24.2 2 way 5/6 amps switch
COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1403	S.P. 5/6 amps, two way modular switch, ISI marked	each	1.00	56.50	56.50
	Total cost of materials				56.50

	Cartage @ 1 % of A1				0.57
	LABOUR				
1001	Wireman	day	0.03	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
	TOTAL				93.85
	Add 12% GST (MF = 0.1405)				13.19
	TOTAL				107.03
	OVERHEADS & PROFIT @ 15 %				16.05
	TOTAL				123.08
	Rate per Each				123.08
	Say				123.00

1.24.3 15/16 amp switch COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1404	S.P. 15/16 amps, one way modular switch, 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	0.03	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
	TOTAL				100.41
	Add 12% GST (MF = 0.1405)				14.11
	TOTAL				114.52
	OVERHEADS & PROFIT @ 15 %				17.18
	TOTAL				131.70
	Rate per Each				131.70
	Say				132.00

1.24.4 3 pin 5/6 amp socket outlet COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1405	3 pin 5/6 amps modular socket outlet, ISI marked	each	1.00	59.50	59.50
	Total cost of materials				59.50
	Cartage @ 1 % of A1				0.60

LABOUR					
1001	Wireman	day	0.02	673.00	13.46
1007	Khallasi	day	0.02	553.00	11.06
TOTAL					84.62
Add 12% GST (MF = 0.1405)					11.89
TOTAL					96.50
OVERHEADS & PROFIT @ 15 %					14.48
TOTAL					110.98
Rate per Each					110.98
Say					111.00

1.24.5 6 pin 15/16 amp socket outlet**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1406	6 pin 15/16 amps modular socket outlet, ISI marked	each	1.00	95.50	95.50
Total cost of materials					95.50
Cartage @ 1 % of A1					0.96
LABOUR					
1001	Wireman	day	0.03	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
TOTAL					133.24
Add 12% GST (MF = 0.1405)					18.72
TOTAL					151.95
OVERHEADS & PROFIT @ 15 %					22.79
TOTAL					174.74
Rate per Each					174.74
Say					175.00

1.24.6 Telephone socket outlet**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1409	Telephone Socket outlet modular type	each	1.00	53.50	53.50
Total cost of materials					53.50
Cartage @ 1 % of A1					0.54

LABOUR					
1001	Wireman	day	0.03	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
TOTAL					90.82
Add 12% GST (MF = 0.1405)					12.76
TOTAL					103.57
OVERHEADS & PROFIT @ 15 %					15.54
TOTAL					119.11
Rate per Each					119.11
Say					119.00

1.24.7 TV antenna socket outlet**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1410	T.V. Socket outlet modular type	each	1.00	53.50	53.50
Total cost of materials					53.50
Cartage @ 1 % of A1					0.54
LABOUR					
1001	Wireman	day	0.03	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
TOTAL					90.82
Add 12% GST (MF = 0.1405)					12.76
TOTAL					103.57
OVERHEADS & PROFIT @ 15 %					15.54
TOTAL					119.11
Rate per Each					119.11
Say					119.00

1.24.8 Bell push**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1407	Modular bell push, ISI marked	each	1.00	58.50	58.50
Total cost of materials					58.50
Cartage @ 1 % of A1					0.59

LABOUR					
1001	Wireman	day	0.03	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
TOTAL					95.87
Add 12% GST (MF = 0.1405)					13.47
TOTAL					109.33
OVERHEADS & PROFIT @ 15 %					16.40
TOTAL					125.73
Rate per Each					125.73
Say					126.00

- 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 (Rs.)
MATERIALS					
1408	Stepped type Modular Fan regulator (2 module)	each	1.00	209.50	209.50
Total cost of materials					209.50
Cartage @ 1 % of A1					2.10
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
TOTAL					260.64
Add 12% GST (MF = 0.1405)					36.62
TOTAL					297.25
OVERHEADS & PROFIT @ 15 %					44.59
TOTAL					341.84
Rate per Each					341.84
Say					342.00

- 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 (Rs.)
MATERIALS					
1411	Modular blanking plate	each	1.00	12.00	12.00
Total cost of materials					12.00
Cartage @ 1 % of A1					0.12

LABOUR					
1001	Wireman	day	0.01	673.00	6.73
1007	Khallasi	day	0.01	553.00	5.53
TOTAL					24.38
Add 12% GST (MF = 0.1405)					3.43
TOTAL					27.81
OVERHEADS & PROFIT @ 15 %					4.17
TOTAL					31.98
Rate per Each					31.98
Say					32.00

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 (Rs.)
MATERIALS					
1300	Modular GI box for 2 module	each	1.00	22.50	22.50
1421	Modular base & cover plate for 2 module	each	1.00	37.50	37.50
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					65.60
Cartage @ 1 % of A1					0.66
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1010	Mason, Grade 2	day	0.06	612.00	36.72
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					185.20
Add 12% GST (MF = 0.1405)					26.02
TOTAL					211.22
OVERHEADS & PROFIT @ 15 %					31.68
TOTAL					242.90
Rate per Each					242.90
Say					243.00

1.27.2 3 Module (100mmX75mm)**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1301	Modular GI box for 3 module	each	1.00	30.50	30.50
1422	Modular base & cover plate for 3 module	each	1.00	48.00	48.00
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				84.10
	Cartage @ 1 % of A1				0.84
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1010	Mason, Grade 2	day	0.06	612.00	36.72
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				203.88
	Add 12% GST (MF = 0.1405)				28.65
	TOTAL				232.53
	OVERHEADS & PROFIT @ 15 %				34.88
	TOTAL				267.41
	Rate per Each				267.41
	Say				267.00

1.27.3 4 Module (125mmX75mm)**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1302	Modular GI box for 4 module	each	1.00	37.50	37.50
1423	Modular base & cover plate for 4 module	each	1.00	55.50	55.50
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				98.60
	Cartage @ 1 % of A1				0.99
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1010	Mason, Grade 2	day	0.06	612.00	36.72
1007	Khallasi	day	0.10	553.00	55.30

TOTAL	218.53
Add 12% GST (MF = 0.1405)	30.70
TOTAL	249.23
OVERHEADS & PROFIT @ 15 %	37.38
TOTAL	286.61
Rate per Each	286.61
Say	287.00

1.27.4 6 Module (200mmX75mm)**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1303	Modular GI box for 6 module	each	1.00	50.50	50.50
1424	Modular base & cover plate for 6 module	each	1.00	77.50	77.50
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				133.60
	Cartage @ 1 % of A1				1.34
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1010	Mason, Grade 2	day	0.06	612.00	36.72
1007	Khallas	day	0.10	553.00	55.30
	TOTAL				253.88
	Add 12% GST (MF = 0.1405)				35.67
	TOTAL				289.55
	OVERHEADS & PROFIT @ 15 %				43.43
	TOTAL				332.98
	Rate per Each				332.98
	Say				333.00

1.27.5 8 Module (125mmX125mm)**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1304	Modular GI box for 8 module	each	1.00	65.50	65.50
1425	Modular base & cover plate for 8 module	each	1.00	99.50	99.50

2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				171.20
	Cartage @ 1 % of A1				1.71
	LABOUR				
1001	Wireman	day	0.04	673.00	26.92
1010	Mason, Grade 2	day	0.06	612.00	36.72
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				291.85
	Add 12% GST (MF = 0.1405)				41.01
	TOTAL				332.86
	OVERHEADS & PROFIT @ 15 %				49.93
	TOTAL				382.79
	Rate per Each				382.79
	Say				383.00

1.27.6 12 Module (200mmX150mm)**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1305	Modular GI box for 12 module	each	1.00	80.50	80.50
1426	Modular base & cover plate for 12 module	each	1.00	123.00	123.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				209.70
	Cartage @ 1 % of A1				2.10
	LABOUR				
1001	Wireman	day	0.04	673.00	26.92
1010	Mason, Grade 2	day	0.06	612.00	36.72
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				330.74
	Add 12% GST (MF = 0.1405)				46.47
	TOTAL				377.21
	OVERHEADS & PROFIT @ 15 %				56.58
	TOTAL				433.79
	Rate per Each				433.79
	Say				434.00

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 (Rs.)
	MATERIALS				
1420	Modular base & cover plate for 1 module	each	1.00	37.50	37.50
	Total cost of materials				37.50
	Cartage @ 1 % of A1				0.38
	LABOUR				
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				86.92
	Add 12% GST (MF = 0.1405)				12.21
	TOTAL				99.13
	OVERHEADS & PROFIT @ 15 %				14.87
	TOTAL				114.00
	Rate per Each				114.00
	Say				114.00

1.28.2 3 Module**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1422	Modular base & cover plate for 3 module	each	1.00	48.00	48.00
	Total cost of materials				48.00
	Cartage @ 1 % of A1				0.48
	LABOUR				
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				97.52
	Add 12% GST (MF = 0.1405)				13.70
	TOTAL				111.22
	OVERHEADS & PROFIT @ 15 %				16.68
	TOTAL				127.90
	Rate per Each				127.90
	Say				128.00

1.28.3 4 Module**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1423	Modular base & cover plate for 4 module	each	1.00	55.50	55.50
	Total cost of materials				55.50
	Cartage @ 1 % of A1				0.56
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				105.10
	Add 12% GST (MF = 0.1405)				14.77
	TOTAL				119.86
	OVERHEADS & PROFIT @ 15 %				17.98
	TOTAL				137.84
	Rate per Each				137.84
	Say				138.00

1.28.4 6 Module**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1424	Modular base & cover plate for 6 module	each	1.00	77.50	77.50
	Total cost of materials				77.50
	Cartage @ 1 % of A1				0.78
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				127.32
	Add 12% GST (MF = 0.1405)				17.89
	TOTAL				145.20
	OVERHEADS & PROFIT @ 15 %				21.78
	TOTAL				166.98
	Rate per Each				166.98
	Say				167.00

1.28.5 8 Module**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1425	Modular base & cover plate for 8 module	each	1.00	99.50	99.50
	Total cost of materials				99.50
	Cartage @ 1 % of A1				1.00
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				149.54
	Add 12% GST (MF = 0.1405)				21.01
	TOTAL				170.54
	OVERHEADS & PROFIT @ 15 %				25.58
	TOTAL				196.12
	Rate per Each				196.12
	Say				196.00

1.28.6 12 Module**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1426	Modular base & cover plate for 12 module	each	1.00	123.00	123.00
	Total cost of materials				123.00
	Cartage @ 1 % of A1				1.23
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				173.27
	Add 12% GST (MF = 0.1405)				24.34
	TOTAL				197.61
	OVERHEADS & PROFIT @ 15 %				29.64
	TOTAL				227.25
	Rate per Each				227.25
	Say				227.00

- 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 FRLSont including providing and fixing 3 pin 5/6 amps 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 (Rs.)
MATERIALS					
1308	150 mm X 75 mm X 60 mm deep metal box	each	1.00	30.90	30.90
1322	3 mm thick phenolic laminated sheet	sqcm	136.00	0.10	13.60
1434	3 pin 5/6 amps socket outlet, piano type ISI marked	each	1.00	19.20	19.20
1431	S.P. 5/6 amps, 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	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					81.30
Cartage @ 1 % of A1					0.81
LABOUR					
1001	Wireman	day	0.07	673.00	47.11
1010	Mason, Grade 2	day	0.04	612.00	24.48
1006	Painter	day	0.005	612.00	3.06
1007	Khallasi	day	0.11	553.00	60.83
TOTAL					217.59
Add 12% GST (MF = 0.1405)					30.57
TOTAL					248.16
OVERHEADS & PROFIT @ 15 %					37.22
TOTAL					285.38
Rate per Each					285.38
Say					285.00

- 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 amps socket outlet and 15/16 amps piano type switch, connection, painting etc. as required.**

COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1310	180 mm X 100 mm X 60 mm deep metal box	each	1.00	37.30	37.30
1322	3 mm thick phenolic laminated sheet	sqcm	209.00	0.10	20.90

1435	6 pin 15/16 & 5/6 amps socket outlet, piano type ISI marked	each	1.00	60.00	60.00
1433	S.P. 15/16 amps, one way switch, piano type ISI marked	each	1.00	46.80	46.80
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	4.00	0.50	2.00
2920	Washers	each	4.00	0.00	0.00
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					172.60
Cartage @ 1 % of A1					1.73
LABOUR					
1001	Wireman	day	0.07	673.00	47.11
1010	Mason, Grade 2	day	0.04	612.00	24.48
1006	Painter	day	0.005	612.00	3.06
1007	Khallas	day	0.11	553.00	60.83
TOTAL					309.81
Add 12% GST (MF = 0.1405)					43.53
TOTAL					353.33
OVERHEADS & PROFIT @ 15 %					53.00
TOTAL					406.33
Rate per Each					406.33
Say					406.00

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 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.

COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1301	Modular GI box for 3 module	each	1.00	30.50	30.50
1405	3 pin 5/6 amps modular socket outlet, ISI marked	each	1.00	59.50	59.50
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	1.00	28.00	28.00
1422	Modular base & cover plate for 3 module	each	1.00	48.00	48.00
2857	PVC fastener 40mm long	each	2.00	0.30	0.60

2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				171.60
	Cartage @ 1 % of A1				1.72
	LABOUR				
1001	Wireman	day	0.07	673.00	47.11
1010	Mason, Grade 2	day	0.04	612.00	24.48
1007	Khallasi	day	0.11	553.00	60.83
	TOTAL				305.74
	Add 12% GST (MF = 0.1405)				42.96
	TOTAL				348.69
	OVERHEADS & PROFIT @ 15 %				52.30
	TOTAL				400.99
	Rate per Each				400.99
	Say				401.00

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

COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1301	Modular GI box for 3 module	each	1.00	30.50	30.50
1406	6 pin 15/16 amps modular socket outlet, ISI marked	each	1.00	95.50	95.50
1404	S.P. 15/16 amps, one way modular switch, ISI marked	each	1.00	63.00	63.00
1422	Modular base & cover plate for 3 module	each	1.00	48.00	48.00
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				242.60
	Cartage @ 1 % of A1				2.43
	LABOUR				
1001	Wireman	day	0.07	673.00	47.11
1010	Mason, Grade 2	day	0.04	612.00	24.48
1007	Khallasi	day	0.11	553.00	60.83
	TOTAL				377.45
	Add 12% GST (MF = 0.1405)				53.03

TOTAL	430.48
OVERHEADS & PROFIT @ 15 %	64.57
TOTAL	495.05
Rate per Each	495.05
Say	495.00

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

COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1401	Ceiling rose, 3 pin, 5 amps ISI marked	each	1.00	12.00	12.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	2.00	0.50	1.00
	Total cost of materials				13.00
	Cartage @ 1 % of A1				0.13
LABOUR					
1001	Wireman	day	0.03	673.00	20.19
1007	Khallasi	day	0.03	553.00	16.59
	TOTAL				49.91
	Add 12% GST (MF = 0.1405)				7.01
	TOTAL				56.92
	OVERHEADS & PROFIT @ 15 %				8.54
	TOTAL				65.46
	Rate per Each				65.46
	Say				65.00

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

COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	0.50	1.50
	Total cost of materials				39.50
	Cartage @ 1 % of A1				0.40
LABOUR					
1001	Wireman	day	0.04	673.00	26.92

1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				88.94
	Add 12% GST (MF = 0.1405)				12.50
	TOTAL				101.43
	OVERHEADS & PROFIT @ 15 %				15.21
	TOTAL				116.64
	Rate per Each				116.64
	Say				117.00

- 1.35 Erection of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS lamps per fitting, complete with all accessories including connection etc. as required.**
COST FOR EACH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	3.00	0.50	1.50
	Total cost of materials				1.50
	Cartage @ 1 % of A1				0.02
	LABOUR				
1001	Wireman	day	0.06	673.00	40.38
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				75.08
	Add 12% GST (MF = 0.1405)				10.55
	TOTAL				85.62
	OVERHEADS & PROFIT @ 15 %				12.84
	TOTAL				98.46
	Rate per Each				98.46
	Say				98.00

- 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 (Rs.)
	MATERIALS				
1201	20 mm dia. ISI marked, steel conduit	metre	0.32	43.00	13.76
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	0.79	9.00	7.11
	= 0.75 + 0.04 (Wastage @5%) = 0.79m				

2908	Brass nipple	each	1.00	8.00	8.00
2928	Back plate	each	1.00	7.00	7.00
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	0.50	1.50
2944	Paint	litre	0.01	170.00	1.70
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
Total cost of materials					86.67
Cartage @ 1 % of A1					0.87
LABOUR					
1001	Wireman	day	0.06	673.00	40.38
1010	Mason, Grade 2	day	0.04	612.00	24.48
1007	Khallasi	day	0.06	553.00	33.18
TOTAL					185.58
Add 12% GST (MF = 0.1405)					26.07
TOTAL					211.65
OVERHEADS & PROFIT @ 15 %					31.75
TOTAL					243.40
Rate per Each					243.40
Say					243.00

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 (Rs.)
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	0.50	1.00
Total cost of materials					45.00
Cartage @ 1 % of A1					0.45
LABOUR					
1001	Wireman	day	0.02	673.00	13.46
1007	Khallasi	day	0.02	553.00	11.06
TOTAL					69.97
Add 12% GST (MF = 0.1405)					9.83
TOTAL					79.80
OVERHEADS & PROFIT @ 15 %					11.97
TOTAL					91.77
Rate per Each					91.77
Say					92.00

- 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 (Rs.)
MATERIALS					
1108	16/0.20 mm (0.5 sqmm) twin core FRLS PVC sheathed, flat flexible copper cable	metre	53.03	9.00	477.27
	Total cost of materials				477.27
	Cartage @ 1 % of A1				4.77
LABOUR					
1001	Wireman	day	0.40	673.00	269.20
1007	Khallasi	day	0.40	553.00	221.20
	TOTAL				972.44
	Add 12% GST (MF = 0.1405)				136.63
	TOTAL				1109.07
	OVERHEADS & PROFIT @ 15 %				166.36
	TOTAL				1275.43
	Rate per meter				25.51
	Say				26.00

- 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 (Rs.)
MATERIALS					
1109	16/0.20 mm (0.5 sqmm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	metre	53.03	8.86	469.85
2858	PVC clip for fixing cable	each	100.00	0.15	15.00
	Total cost of materials				484.85
	Cartage @ 1 % of A1				4.85
LABOUR					
1001	Wireman	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				796.20
	Add 12% GST (MF = 0.1405)				111.87

TOTAL	908.06
OVERHEADS & PROFIT @ 15 %	136.21
TOTAL	1044.27
Rate per meter	20.89
Say	21.00

- 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 (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 0.30 + 0.02 (Wastage @5%) = 0.32m	metre	0.32	9.00	2.88
2852	Iron screws, 35 mm X 6 mm	each	2.00	1.00	2.00
2857	PVC fastener 40mm long	each	1.00	0.30	0.30
	Total cost of materials				5.18
	Cartage @ 1 % of A1				0.05
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				127.83
	Add 12% GST (MF = 0.1405)				17.96
	TOTAL				145.79
	OVERHEADS & PROFIT @ 15 %				21.87
	TOTAL				167.66
	Rate per Each				167.66
	Say				168.00

- 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 (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 0.90 + 0.05 (Wastage @5%) = 0.95m	metre	0.95	9.00	8.55
1201	20 mm dia. ISI marked, steel conduit = 0.60 + 0.03 (Wastage @5%) = 0.63m	metre	0.63	43.00	27.09
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	6.00	0.50	3.00
2927	Ball and socket	each	2.00	17.00	34.00
2929	Check nut 20mm	each	4.00	4.00	16.00
2859	Rubber/ PVC bushes	each	1.00	0.50	0.50
2944	Paint	litre	0.02	170.00	3.40
2857	PVC fastener 40mm long	each	6.00	0.30	1.80
Total cost of materials					94.34
Cartage @ 1 % of A1					0.94
LABOUR					
1001	Wireman	day	0.130	673.00	87.49
1006	Painter	day	0.03	612.00	18.36
1007	Khallasi	day	0.130	553.00	71.89
TOTAL					273.02
Add 12% GST (MF = 0.1405)					38.36
TOTAL					311.38
OVERHEADS & PROFIT @ 15 %					46.71
TOTAL					358.09
Rate per Each					358.09
Say					358.00

- 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. (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 (Rs.)
MATERIALS					
1201	20 mm dia. ISI marked, steel conduit	metre	0.20	43.00	8.60
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	0.20	9.00	1.80

2944	Paint	litre	0.01	170.00	1.70
	Total cost of materials				12.10
	Cartage @ 1 % of A1				0.12
	LABOUR				
1001	Wireman	day	0.010	673.00	6.73
1006	Painter	day	0.010	612.00	6.12
1007	Khallasi	day	0.010	553.00	5.53
	TOTAL				30.60
	Add 12% GST (MF = 0.1405)				4.30
	TOTAL				34.90
	OVERHEADS & PROFIT @ 15 %				5.24
	TOTAL				40.14
	Rate per Each				40.14
	Say				40.00

- 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 (Rs.)
	MATERIALS				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 8.0 + 0.40 (Wastage @5%) = 8.40m	metre	8.40	9.00	75.60
	Total cost of materials				75.60
	Cartage @ 1 % of A1				0.76
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				1302.36
	Add 12% GST (MF = 0.1405)				182.98
	TOTAL				1485.34
	OVERHEADS & PROFIT @ 15 %				222.80
	TOTAL				1708.14
	Rate per Fan				170.81
	Say				171.00

- 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 (Rs.)
MATERIALS					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = 8.0 + 0.40 (Wastage @5%) = 8.40m	metre	8.40	9.00	75.60
1322	3 mm thick phenolic laminated sheet	sqcm	#####	0.10	231.20
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	16.00	0.50	8.00
2920	Washers	each	16.00	0.00	0.00
Total cost of materials					314.80
Cartage @ 1 % of A1					3.15
LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
TOTAL					1543.95
Add 12% GST (MF = 0.1405)					216.92
TOTAL					1760.87
OVERHEADS & PROFIT @ 15 %					264.13
TOTAL					2025.00
Rate per Fan					202.50
Say					203.00

- 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 (Rs.)
MATERIALS					
2827	15 mm dia. G.I. pipe (heavy class) = 0.10 + 0.005 (Wastage @ 5%) = 0.105m	metre	0.105	101.00	10.61
2944	Paint	letre	0.01	170.00	1.70
Total cost of materials					12.31

	Cartage @ 1 % of A1				0.12
	LABOUR				
1001	Wireman	day	0.007	673.00	4.71
1006	Painter	day	0.007	612.00	4.28
1007	Khallasi	day	0.007	553.00	3.87
	TOTAL				25.29
	Add 12% GST (MF = 0.1405)				3.55
	TOTAL				28.85
	OVERHEADS & PROFIT @ 15 %				4.33
	TOTAL				33.18
	Rate per Each				33.18
	Say				33.00

- 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 (Rs.)
	MATERIALS				
2828	20 mm dia. G.I. pipe (heavy class) = 0.10 + 0.005 (Wastage @ 5%) = 0.105m	metre	0.105	130.00	13.65
2944	Paint	litre	0.01	170.00	1.70
	Total cost of materials				15.35
	Cartage @ 1 % of A1				0.15
	LABOUR				
1001	Wireman	day	0.007	673.00	4.71
1006	Painter	day	0.007	612.00	4.28
1007	Khallasi	day	0.007	553.00	3.87
	TOTAL				28.36
	Add 12% GST (MF = 0.1405)				3.99
	TOTAL				32.35
	OVERHEADS & PROFIT @ 15 %				4.85
	TOTAL				37.20
	Rate per Each				37.20
	Say				37.00

1.49 Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.**COST FOR 100 FANS**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2944	Paint	litre	1.00	170.00	170.00
	Total cost of materials				170.00
	Cartage @ 1 % of A1				1.70
LABOUR					
1006	Painter	day	3.00	612.00	1836.00
1007	Khallasi	day	3.00	553.00	1659.00
	TOTAL				3666.70
	Add 12% GST (MF = 0.1405)				515.17
	TOTAL				4181.87
	OVERHEADS & PROFIT @ 15 %				627.28
	TOTAL				4809.15
	Rate per Each				48.09
	Say				48.00

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 (Rs.)
MATERIALS					
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
1108	16/0.20 mm (0.5 sqmm) twin core FRLS PVC sheathed, flat flexible copper cable	metre	1.00	9.00	9.00
	Total cost of materials				31.00
	Cartage @ 1 % of A1				0.31
LABOUR					
1001	Wireman	day	0.20	673.00	134.60

1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				276.51
	Add 12% GST (MF = 0.1405)				38.85
	TOTAL				315.36
	OVERHEADS & PROFIT @ 15 %				47.30
	TOTAL				362.66
	Rate per Each				362.66
	Say				363.00

1.50.2 510 mm sweep**COST FOR EACH**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
1108	16/0.20 mm (0.5 sqmm) twin core FRLS PVC sheathed, flat flexible copper cable	metre	1.00	9.00	9.00
	Total cost of materials				31.00
	Cartage @ 1 % of A1				0.31
	LABOUR				
1001	Wireman	day	0.30	673.00	201.90
1007	Khallasi	day	0.30	553.00	165.90
	TOTAL				399.11
	Add 12% GST (MF = 0.1405)				56.07
	TOTAL				455.18
	OVERHEADS & PROFIT @ 15 %				68.28
	TOTAL				523.46
	Rate per Each				523.46
	Say				523.00

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 (Rs.)
MATERIALS					
2853	Iron screws, 40 mm X 6 mm	each	4.00	1.00	4.00
2857	PVC fastener 40mm long	each	4.00	0.30	1.20
Total cost of materials					5.20
Cartage @ 1 % of A1					0.05
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					127.85
Add 12% GST (MF = 0.1405)					17.96
TOTAL					145.82
OVERHEADS & PROFIT @ 15 %					21.87
TOTAL					167.69
Rate per Each					167.69
Say					168.00

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 (Rs.)
MATERIALS					
2944	Paint	letre	2.70	170.00	459.00
2939	Cleaning materials like soap/ detergent	kg	1.00	52.00	52.00
2938	Cotton waste, cleaning cloth etc.	kg	2.00	46.00	92.00
Total cost of materials					603.00
Cartage @ 1 % of A1					6.03
LABOUR					
1006	Painter	day	3.00	612.00	1836.00
1007	Khallasi	day	3.00	553.00	1659.00

1082	Hire charges for compressor and spray gun	day	3.00	350.00	1050.00
	TOTAL				5154.03
	Add 12% GST (MF = 0.1405)				724.14
	TOTAL				5878.17
	OVERHEADS & PROFIT @ 15 %				881.73
	TOTAL				6759.90
	Rate per Each				135.20
	Say				135.00

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 4 pair UTP CAT 6- 1 run of Cable

COST FOR 50 METRES

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1451	4 pair UTP CAT 6	metre	51.50	24.00	1236.00
	Total cost of materials				1236.00
	Cartage @ 1 % of A1				12.36
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallas	day	0.50	553.00	276.50
	TOTAL				1861.36
	Add 12% GST (MF = 0.1405)				261.52
	TOTAL				2122.88
	OVERHEADS & PROFIT @ 15 %				318.43
	TOTAL				2441.31
	Rate per meter				48.83
	Say				49.00

1.53.2 4 pair UTP CAT 6- 2 run of Cable

COST FOR 50 METRES

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1451	4 pair UTP CAT 6	metre	103.00	24.00	2472.00
	Total cost of materials				2472.00
	Cartage @ 1 % of A1				24.72
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				3109.72
	Add 12% GST (MF = 0.1405)				436.92
	TOTAL				3546.64
	OVERHEADS & PROFIT @ 15 %				532.00
	TOTAL				4078.64
	Rate per meter				81.57
	Say				82.00

1.53.3 4 pair UTP CAT 6- 2 run of Cable**COST FOR 50 METRES**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1451	4 pair UTP CAT 6	metre	154.50	24.00	3708.00
	Total cost of materials				3708.00
	Cartage @ 1 % of A1				37.08
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				4358.08
	Add 12% GST (MF = 0.1405)				612.31
	TOTAL				4970.39
	OVERHEADS & PROFIT @ 15 %				745.56
	TOTAL				5715.95
	Rate per meter				114.32
	Say				114.00

- 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

Details of cost for 1 point

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
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	metre	6.30	9.00	56.70
1201	20 mm dia. ISI marked, steel conduit = 2.5-1=1.5+0.075 (wastage @5%)= 1.575 m	metre	1.58	43.00	67.94
1218	20 mm iron staples/ saddles/ screws	each	2.00	1.50	3.00
Total cost of materials					127.64
Cartage @ 1 %					1.28
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1006	Painter	day	0.02	612.00	12.24
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					416.96
Add 12% GST (MF = 0.1405)					58.58
TOTAL					475.54
Add 15 % Over Head & Contractor Profit					71.33
TOTAL					546.87
Rate per Point					546.87
Say					547.00

1.54.2 Group B

Details of cost for 1 point

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $3 \times 4 = 12 - 1.2 \times 3 = 8.4 + 0.4$ (wastage @ 5%) = 8.8 m	metre	8.80	9.00	79.20
1201	20 mm dia. ISI marked, steel conduit = $3.5 - 1.2 = 2.3 + 0.12$ (wastage @ 5%) = 2.42 m	metre	2.42	43.00	104.06
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.50	6.00
	Total cost of materials				189.26
	Cartage @ 1 %				1.89
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1006	Painter	day	0.02	612.00	12.24
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				479.19
	Add 12% GST (MF = 0.1405)				67.33
	TOTAL				546.52
	Add 15 % Over Head & Contractor Profit				81.98
	TOTAL				628.50
	Rate per Point				628.50
	Say				628.00

1.54.3 Group C**Details of cost for 1 point**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $3 \times 5 = 15 - 1.5 \times 3 = 10.5 + 0.52$ (wastage @ 5%) = 11.02 m	metre	11.02	9.00	99.18

1201	20 mm dia. ISI marked, steel conduit	metre	3.15	43.00	135.45
	= $4.5 - 1.5 = 3 + 0.15$ (wastage @5%)= 3.15 m				
1211	20 mm sockets	each	1.00	5.00	5.00
1218	20 mm iron staples/ saddles/ screws	each	6.00	1.50	9.00
	Total cost of materials				248.63
	Cartage @ 1 %				2.49
	LABOUR				
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1006	Painter	day	0.02	612.00	12.24
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				539.16
	Add 12% GST (MF = 0.1405)				75.75
	TOTAL				614.91
	Add 15 % Over Head & Contractor Profit				92.24
	TOTAL				707.14
	Rate per Point				707.14
	Say				707.00

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

Details of cost for 1 point

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	6.30	9.00	56.70
	3x3=9-1x3=6+0.30 (wastage @ 5%)= 6.3m				
1224	20 mm dia. ISI marked, PVC conduit	metre	1.58	10.44	16.50
	= $2.5 - 1 = 1.5 + 0.075$ (wastage @5%)= 1.575 m				

1218	20 mm iron staples/ saddles/ screws	each	2.00	1.50	3.00
	Total cost of materials				76.20
	Cartage @ 1 %				0.76
	LABOUR				
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				352.76
	Add 12% GST (MF = 0.1405)				49.56
	TOTAL				402.32
	Add 15 % Over Head & Contractor Profit				60.35
	TOTAL				462.67
	Rate per Point				462.67
	Say				463.00

1.55.2 Group B**Details of cost for 1 point**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $3 \times 4 = 12 - 1.2 \times 3 = 8.4 + 0.4$ (wastage @ 5%) = 8.8 m	metre	8.80	9.00	79.20
1224	20 mm dia. ISI marked, PVC conduit = $3.5 - 1.2 = 2.3 + 0.12$ (wastage @ 5%) = 2.42 m	metre	2.42	10.44	25.26
1218	20 mm iron staples/ saddles/ screws	each	4.00	1.50	6.00
	Total cost of materials				110.46
	Cartage @ 1 %				1.10
	LABOUR				
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				387.37

Add 12% GST (MF = 0.1405)	54.43
TOTAL	441.79
Add 15 % Over Head & Contractor Profit	66.27
TOTAL	508.06
Rate per Point	508.06
Say	508.00

1.55.3 Group C

Details of cost for 1 point

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable = $3 \times 5 = 15 - 1.5 \times 3 = 10.5 + 0.52$ (wastage @ 5%) = 11.02 m	metre	11.02	9.00	99.18
1224	20 mm dia. ISI marked, PVC conduit = $4.5 - 1.5 = 3 + 0.15$ (wastage @ 5%) = 3.15 m	metre	3.15	10.44	32.89
1211	20 mm sockets	each	1.00	5.00	5.00
1218	20 mm iron staples/ saddles/ screws	each	6.00	1.50	9.00
Total cost of materials					146.07
Cartage @ 1 %					1.46
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallas	day	0.20	553.00	110.60
TOTAL					423.33
Add 12% GST (MF = 0.1405)					59.48
TOTAL					482.80
Add 15 % Over Head & Contractor Profit					72.42
TOTAL					555.22
Rate per Point					555.22
Say					555.00

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

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
1424	Modular base & cover plate for 6 module	each	1.00	77.50	77.50
1405	3 pin 5/6 amps modular socket outlet, ISI marked	each	2.00	59.50	119.00
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	2.00	28.00	56.00
1303	Modular GI box for 6 module	each	1.00	50.50	50.50
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	4.50	4.50
Total cost of materials					308.10
Cartage @ 1 %					3.08
LABOUR					
1001	Wireman	day	0.07	673.00	47.11
1010	Mason, Grade 2	day	0.04	612.00	24.48
1007	Khallasi	day	0.11	553.00	60.83
TOTAL					443.60
Add 12% GST (MF = 0.1405)					62.33
TOTAL					505.93
Add 15 % Over Head & Contractor Profit					75.89
TOTAL					581.82
Rate per Point					581.82
Say					582.00

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

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
1301	Modular GI box for 3 module	each	1.00	30.50	30.50
1412	6 pin 25 amp modular type socket ISI Marked	nos	1.00	106.50	106.50
1705	25 amp modular SPMCB	nos	1.00	161.00	161.00
1422	Modular base & cover plate for 3 module	each	1.00	48.00	48.00
2857	PVC fastener 40mm long	each	2.00	0.30	0.60
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					351.60
Cartage @ 1 %					3.52
LABOUR					
1001	Wireman	day	0.07	673.00	47.11
1010	Mason, Grade 2	day	0.04	612.00	24.48
1007	Khallas	day	0.11	553.00	60.83
TOTAL					487.54
Add 12% GST (MF = 0.1405)					68.50
TOTAL					556.03
Add 15 % Over Head & Contractor Profit					83.41
TOTAL					639.44
Rate per Each					639.44
Say					639.00

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

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
1452	PVC Batten/ Angle Holder	each	1.00	18.00	18.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	3.00	0.50	1.50
Total cost of materials					19.50
Cartage @ 1 %					0.20
LABOUR					
1001	Wireman	day	0.04	673.00	26.92

1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				68.74
	Add 12% GST (MF = 0.1405)				9.66
	TOTAL				78.39
	Add 15 % Over Head & Contractor Profit				11.76
	TOTAL				90.15
	Rate per Each				90.15
	Say				90.00

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.

Details of cost for 50 Fans

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
2944	Paint	litre	2.84	170.00	481.95
	= 2.7 + 0.135 (wastage @5%) = 2.835				
2939	Cleaning materials like soap/ detergent	kg	1.00	52.00	52.00
2938	Cotton waste, cleaning cloth etc.	kg	2.00	46.00	92.00
2930	Rubber reel, nut & bolts with washers and safety pin	set	10.00	60.00	600.00
	Total cost of materials				1225.95
	Cartage @ 1 %				12.26
	LABOUR				
1001	Wireman	day	3.00	673.00	2019.00
1006	Painter	day	3.00	612.00	1836.00
1007	Khallasi	day	6.00	553.00	3318.00
	TOTAL				8411.21
	Add 12% GST (MF = 0.1405)				1181.77
	TOTAL				9592.98
	Add 15 % Over Head & Contractor Profit				1438.95
	Cost for 50 Fans				11031.93
	Rate per Each				220.64
	Say				221.00

CHAPTER 2 – MCCB, MCB & DBs

2.1 Providing and fixing following capacity TP&N disconnecter 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 (Rs.)
MATERIALS					
1601	32 A TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	1421.00	1421.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	13.00	13.00
Total cost of materials					1444.80
Cartage @ 1 % of A1					14.45
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1581.85
Add 12% GST (MF = 0.1405)					222.25
TOTAL					1804.10
OVERHEADS & PROFIT @ 15 %					270.61
TOTAL					2074.71
Rate per Each					2074.71
Say					2075.00

2.1.2 63 A TP&N

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1602	63 A TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	2005.00	2005.00
2863	38mm X 10mm bolts & nuts	each	4.00	7.25	29.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	13.00	13.00
Total cost of materials					2049.00

	Cartage @ 1 % of A1				20.49
	LABOUR				
1001	Wireman	day	0.130	673.00	87.49
1007	Khallasi	day	0.130	553.00	71.89
	TOTAL				2228.87
	Add 12% GST (MF = 0.1405)				313.16
	TOTAL				2542.03
	OVERHEADS & PROFIT @ 15 %				381.30
	TOTAL				2923.33
	Rate per Each				2923.33
	Say				2923.00

2.1.3 100 A TP&N**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1603	100 A TPN, switch disconnecter 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	7.25	29.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	13.00	13.00
	Total cost of materials				4390.00
	Cartage @ 1 % of A1				43.90
	LABOUR				
1001	Wireman	day	0.130	673.00	87.49
1007	Khallasi	day	0.130	553.00	71.89
	TOTAL				4593.28
	Add 12% GST (MF = 0.1405)				645.36
	TOTAL				5238.64
	OVERHEADS & PROFIT @ 15 %				785.80
	TOTAL				6024.44
	Rate per Each				6024.44
	Say				6024.00

2.1.4 125 A TP&N**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1604	125 A TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	4829.00	4829.00
2863	38mm X 10mm bolts & nuts	each	4.00	7.25	29.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	13.00	13.00
Total cost of materials					4873.00
Cartage @ 1 % of A1					48.73
LABOUR					
1001	Wireman	day	0.15	673.00	100.95
1007	Khallasi	day	0.15	553.00	82.95
TOTAL					5105.63
Add 12% GST (MF = 0.1405)					717.34
TOTAL					5822.97
OVERHEADS & PROFIT @ 15 %					873.45
TOTAL					6696.42
Rate per Each					6696.42
Say					6696.00

2.1.5 160 A TP&N**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1605	160 A TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1.00	5779.00	5779.00
2863	38mm X 10mm bolts & nuts	each	4.00	7.25	29.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	13.00	13.00
Total cost of materials					5823.00
Cartage @ 1 % of A1					58.23
LABOUR					
1001	Wireman	day	0.15	673.00	100.95

1007	Khallasi	day	0.15	553.00	82.95
	TOTAL				6065.13
	Add 12% GST (MF = 0.1405)				852.15
	TOTAL				6917.28
	OVERHEADS & PROFIT @ 15 %				1037.59
	TOTAL				7954.87
	Rate per Each				7954.87
	Say				7955.00

2.1.6 200 A TP&N

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1606	200 A TPN switch fuse unit with ISI marked HRC fuses	each	1.00	6624.00	6624.00
2863	38mm X 10mm bolts & nuts	each	4.00	7.25	29.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	13.00	13.00
	Total cost of materials				6668.00
	Cartage @ 1 % of A1				66.68
	LABOUR				
1001	Wireman	day	0.170	673.00	114.41
1007	Khallasi	day	0.170	553.00	94.01
	TOTAL				6943.10
	Add 12% GST (MF = 0.1405)				975.51
	TOTAL				7918.61
	OVERHEADS & PROFIT @ 15 %				1187.79
	TOTAL				9106.40
	Rate per Each				9106.40
	Say				9106.00

2.1.7 320 A TP&N

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	7.25	29.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	13.00	13.00
Total cost of materials					10691.00
Cartage @ 1 % of A1					106.91
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					11043.11
Add 12% GST (MF = 0.1405)					1551.56
TOTAL					12594.67
OVERHEADS & PROFIT @ 15 %					1889.20
TOTAL					14483.87
Rate per Each					14483.87
Say					14484.00

2.1.8 400 A TP&N**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1608	400 A TPN switch fuse unit with ISI marked HRC fuses	each	1.00	13025.00	13025.00
2863	38mm X 10mm bolts & nuts	each	4.00	7.25	29.00
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
2934	Earthing thimbles and solder	L.S.	1.00	13.00	13.00
Total cost of materials					13069.00
Cartage @ 1 % of A1					130.69
LABOUR					
1001	Wireman	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					13506.19
Add 12% GST (MF = 0.1405)					1897.62
TOTAL					15403.81
OVERHEADS & PROFIT @ 15 %					2310.57
TOTAL					17714.38
Rate per Each					17714.38
Say					17714.00

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 (Rs.)
MATERIALS					
1610	3 pole MCCB, 100A, 16KA	each	1.00	2644.00	2644.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				2654.80
	Cartage @ 1 % of A1				26.55
LABOUR					
1001	Wireman	day	0.130	673.00	87.49
1007	Khallasi	day	0.130	553.00	71.89
	TOTAL				2840.73
	Add 12% GST (MF = 0.1405)				399.12
	TOTAL				3239.85
	OVERHEADS & PROFIT @ 15 %				485.98
	TOTAL				3725.83
	Rate per Each				3725.83
	Say				3726.00

2.2.2 125 A 16 KA

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1611	3 pole MCCB, 125A, 16KA	each	1.00	2936.00	2936.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				2946.80
	Cartage @ 1 % of A1				29.47
LABOUR					
1001	Wireman	day	0.15	673.00	100.95
1007	Khallasi	day	0.15	553.00	82.95
	TOTAL				3160.17
	Add 12% GST (MF = 0.1405)				444.00

TOTAL	3604.17
OVERHEADS & PROFIT @ 15 %	540.63
TOTAL	4144.80
Rate per Each	4144.80
Say	4145.00

2.2.3 160 A 16 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1612	3 pole MCCB, 150A, 16KA	each	1.00	3346.00	3346.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				3356.80
	Cartage @ 1 % of A1				33.57
LABOUR					
1001	Wireman	day	0.15	673.00	100.95
1007	Khallas	day	0.15	553.00	82.95
	TOTAL				3574.27
	Add 12% GST (MF = 0.1405)				502.18
	TOTAL				4076.45
	OVERHEADS & PROFIT @ 15 %				611.47
	TOTAL				4687.92
	Rate per Each				4687.92
	Say				4688.00

2.2.4 200 A 16 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1613	3 pole MCCB, 200A, 16KA	each	1.00	5541.00	5541.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				5551.80
	Cartage @ 1 % of A1				55.52
LABOUR					

1001	Wireman	day	0.170	673.00	114.41
1007	Khallasi	day	0.170	553.00	94.01
	TOTAL				5815.74
	Add 12% GST (MF = 0.1405)				817.11
	TOTAL				6632.85
	OVERHEADS & PROFIT @ 15 %				994.93
	TOTAL				7627.78
	Rate per Each				7627.78
	Say				7628.00

2.2.5 200 A 25 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1614	3 pole MCCB, 200A, 25KA	each	1.00	8051.00	8051.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				8061.80
	Cartage @ 1 % of A1				80.62
	LABOUR				
1001	Wireman	day	0.170	673.00	114.41
1007	Khallasi	day	0.170	553.00	94.01
	TOTAL				8350.84
	Add 12% GST (MF = 0.1405)				1173.29
	TOTAL				9524.13
	OVERHEADS & PROFIT @ 15 %				1428.62
	TOTAL				10952.75
	Rate per Each				10952.75
	Say				10953.00

2.2.6 250 A 25 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1615	3 pole MCCB, 250A, 25KA	each	1.00	9522.00	9522.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80

2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				9532.80
	Cartage @ 1 % of A1				95.33
	LABOUR				
1001	Wireman	day	0.180	673.00	121.14
1007	Khallasi	day	0.180	553.00	99.54
	TOTAL				9848.81
	Add 12% GST (MF = 0.1405)				1383.76
	TOTAL				11232.57
	OVERHEADS & PROFIT @ 15 %				1684.88
	TOTAL				12917.45
	Rate per Each				12917.45
	Say				12917.00

2.2.7 250 A 35 KA

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1616	3 pole MCCB, 250A, 35KA	each	1.00	8180.00	8180.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				8190.80
	Cartage @ 1 % of A1				81.91
	LABOUR				
1001	Wireman	day	0.180	673.00	121.14
1007	Khallasi	day	0.180	553.00	99.54
	TOTAL				8493.39
	Add 12% GST (MF = 0.1405)				1193.32
	TOTAL				9686.71
	OVERHEADS & PROFIT @ 15 %				1453.01
	TOTAL				11139.72
	Rate per Each				11139.72
	Say				11140.00

2.2.8 315 A 35 KA

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1617	3 pole MCCB, 315A, 35KA	each	1.00	15986.00	15986.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				15996.80
	Cartage @ 1 % of A1				159.97
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				16401.97
	Add 12% GST (MF = 0.1405)				2304.48
	TOTAL				18706.44
	OVERHEADS & PROFIT @ 15 %				2805.97
	TOTAL				21512.41
	Rate per Each				21512.41
	Say				21512.00

2.2.9 400 A 35 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1618	3 pole MCCB, 400A, 35KA	each	1.00	15986.00	15986.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				15996.80
	Cartage @ 1 % of A1				159.97
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				16401.97
	Add 12% GST (MF = 0.1405)				2304.48
	TOTAL				18706.44
	OVERHEADS & PROFIT @ 15 %				2805.97
	TOTAL				21512.41
	Rate per Each				21512.41
	Say				21512.00

2.2.10 500 A 35 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1619	3 pole MCCB, 500A, 35KA	each	1.00	18511.00	18511.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				18521.80
	Cartage @ 1 % of A1				185.22
LABOUR					
1001	Wireman	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				19013.52
	Add 12% GST (MF = 0.1405)				2671.40
	TOTAL				21684.92
	OVERHEADS & PROFIT @ 15 %				3252.74
	TOTAL				24937.66
	Rate per Each				24937.66
	Say				24938.00

2.2.11 630 A 50 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1620	3 pole MCCB, 630A, 50KA	each	1.00	20650.00	20650.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				20660.80
	Cartage @ 1 % of A1				206.61
LABOUR					
1001	Wireman	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				21173.91
	Add 12% GST (MF = 0.1405)				2974.93
	TOTAL				24148.84
	OVERHEADS & PROFIT @ 15 %				3622.33

TOTAL	27771.17
Rate per Each	27771.17
Say	27771.00

2.2.12 800 A 50 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1621	3 pole MCCB, 800A, 50KA	each	1.00	25243.00	25243.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				25253.80
	Cartage @ 1 % of A1				252.54
LABOUR					
1001	Wireman	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				25812.84
	Add 12% GST (MF = 0.1405)				3626.70
	TOTAL				29439.54
	OVERHEADS & PROFIT @ 15 %				4415.93
	TOTAL				33855.47
	Rate per Each				33855.47
	Say				33855.00

2.2.13 100 A 30 KA 4Pole**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1622	4 pole MCCB, 100A, 30KA	each	1.00	5400.00	5400.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				5410.80
	Cartage @ 1 % of A1				54.11
LABOUR					
1001	Wireman	day	0.130	673.00	87.49
1007	Khallasi	day	0.130	553.00	71.89

TOTAL	5624.29
Add 12% GST (MF = 0.1405)	790.21
TOTAL	6414.50
OVERHEADS & PROFIT @ 15 %	962.18
TOTAL	7376.68
Rate per Each	7376.68
Say	7377.00

2.2.14 125 A 36 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1623	4 pole MCCB, 125A, 36KA	each	1.00	5472.00	5472.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					5482.80
Cartage @ 1 % of A1					54.83
LABOUR					
1001	Wireman	day	0.15	673.00	100.95
1007	Khallasi	day	0.15	553.00	82.95
TOTAL					5721.53
Add 12% GST (MF = 0.1405)					803.87
TOTAL					6525.40
OVERHEADS & PROFIT @ 15 %					978.81
TOTAL					7504.21
Rate per Each					7504.21
Say					7504.00

2.2.15 200 A 36 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1624	4 pole MCCB, 200A, 36KA	each	1.00	11243.00	11243.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					11253.80

	Cartage @ 1 % of A1				112.54
	LABOUR				
1001	Wireman	day	0.15	673.00	100.95
1007	Khallasi	day	0.15	553.00	82.95
	TOTAL				11550.24
	Add 12% GST (MF = 0.1405)				1622.81
	TOTAL				13173.05
	OVERHEADS & PROFIT @ 15 %				1975.96
	TOTAL				15149.01
	Rate per Each				15149.01
	Say				15149.00

2.2.16 250 A 36 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1625	4 pole MCCB, 250A, 36KA	each	1.00	12821.00	12821.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				12831.80
	Cartage @ 1 % of A1				128.32
	LABOUR				
1001	Wireman	day	0.170	673.00	114.41
1007	Khallasi	day	0.170	553.00	94.01
	TOTAL				13168.54
	Add 12% GST (MF = 0.1405)				1850.18
	TOTAL				15018.72
	OVERHEADS & PROFIT @ 15 %				2252.81
	TOTAL				17271.53
	Rate per Each				17271.53
	Say				17272.00

2.2.17 250 A 50 KA**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1626	4 pole MCCB, 250A, 50KA	each	1.00	11066.00	11066.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				11076.80
	Cartage @ 1 % of A1				110.77
LABOUR					
1001	Wireman	day	0.170	673.00	114.41
1007	Khallasi	day	0.170	553.00	94.01
	TOTAL				11395.99
	Add 12% GST (MF = 0.1405)				1601.14
	TOTAL				12997.12
	OVERHEADS & PROFIT @ 15 %				1949.57
	TOTAL				14946.69
	Rate per Each				14946.69
	Say				14947.00

2.2.18 400 A 50 KA, 4Pole**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1627	4 pole MCCB, 400A, 50KA	each	1.00	19535.00	19535.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
	Total cost of materials				19545.80
	Cartage @ 1 % of A1				195.46
LABOUR					
1001	Wireman	day	0.180	673.00	121.14
1007	Khallasi	day	0.180	553.00	99.54
	TOTAL				19961.94
	Add 12% GST (MF = 0.1405)				2804.65
	TOTAL				22766.59
	OVERHEADS & PROFIT @ 15 %				3414.99
	TOTAL				26181.58
	Rate per Each				26181.58
	Say				26182.00

2.2.19 630 A 50 KA,FPMCCB**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1628	4 pole MCCB, 630A, 50KA	each	1.00	24309.00	24309.00
2861	25mm X 3mm bolts & nuts	each	4.00	2.20	8.80
2859	Rubber/ PVC bushes	each	4.00	0.50	2.00
Total cost of materials					24319.80
Cartage @ 1 % of A1					243.20
LABOUR					
1001	Wireman	day	0.180	673.00	121.14
1007	Khallasi	day	0.180	553.00	99.54
TOTAL					24783.68
Add 12% GST (MF = 0.1405)					3482.11
TOTAL					28265.78
OVERHEADS & PROFIT @ 15 %					4239.87
TOTAL					32505.65
Rate per Each					32505.65
Say					32506.00

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 (Rs.)
MATERIALS					
1738	2+2 way, SPN, double door, MCB DB	each	1.00	991.00	991.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					1018.00
Cartage @ 1 % of A1					10.18
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1010	Mason, Grade 2	day	0.12	612.00	73.44
1007	Khallasi	day	0.20	553.00	110.60

TOTAL	1266.06
Add 12% GST (MF = 0.1405)	177.88
TOTAL	1443.94
OVERHEADS & PROFIT @ 15 %	216.59
TOTAL	1660.53
Rate per Each	1660.53
Say	1661.00

2.3.2 8 way, Double door**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1739	2+4 way, SPN, double door, MCB DB	each	1.00	1066.00	1066.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				1093.00
	Cartage @ 1 % of A1				10.93
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1010	Mason, Grade 2	day	0.12	612.00	73.44
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				1341.81
	Add 12% GST (MF = 0.1405)				188.52
	TOTAL				1530.33
	OVERHEADS & PROFIT @ 15 %				229.55
	TOTAL				1759.88
	Rate per Each				1759.88
	Say				1760.00

2.3.3 12 way, Double door**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1740	2+6 way, SPN, double door, MCB DB	each	1.00	1287.00	1287.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00

Total cost of materials					1314.00
Cartage @ 1 % of A1					13.14
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1010	Mason, Grade 2	day	0.12	612.00	73.44
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					1565.02
Add 12% GST (MF = 0.1405)					219.89
TOTAL					1784.91
OVERHEADS & PROFIT @ 15 %					267.74
TOTAL					2052.65
Rate per Each					2052.65
Say					2053.00

2.3.4 16 way, Double door

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1741	2+10 way, SPN, double door, MCB DB	each	1.00	1589.00	1589.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					1616.00
Cartage @ 1 % of A1					16.16
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1010	Mason, Grade 2	day	0.12	612.00	73.44
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					1870.04
Add 12% GST (MF = 0.1405)					262.74
TOTAL					2132.78
OVERHEADS & PROFIT @ 15 %					319.92
TOTAL					2452.70
Rate per Each					2452.70
Say					2453.00

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 (Rs.)
MATERIALS					
1754	4 way (4+12), TPN, MCB DB, double door, horizontal type	each	1.00	2005.00	2005.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					2032.00
Cartage @ 1 % of A1					20.32
LABOUR					
1001	Wireman	day	0.12	673.00	80.76
1010	Mason, Grade 2	day	0.12	612.00	73.44
1007	Khallasi	day	0.24	553.00	132.72
TOTAL					2339.24
Add 12% GST (MF = 0.1405)					328.66
TOTAL					2667.90
OVERHEADS & PROFIT @ 15 %					400.19
TOTAL					3068.09
Rate per Each					3068.09
Say					3068.00

2.4.2 6 way (4 + 18), Double door
Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1755	6 way (4+18), TPN, MCB DB, double door, horizontal type	each	1.00	2477.00	2477.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					2504.00
Cartage @ 1 % of A1					25.04
LABOUR					
1001	Wireman	day	0.12	673.00	80.76
1010	Mason, Grade 2	day	0.12	612.00	73.44
1007	Khallasi	day	0.24	553.00	132.72
TOTAL					2815.96

Add 12% GST (MF = 0.1405)	395.64
TOTAL	3211.60
OVERHEADS & PROFIT @ 15 %	481.74
TOTAL	3693.34
Rate per Each	3693.34
Say	3693.00

2.4.3 8 way (4 + 24), Double door

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1756	8 way (4+24), TPN, MCB DB, double door, horizontal type	each	1.00	3162.00	3162.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					3189.00
Cartage @ 1 % of A1					31.89
LABOUR					
1001	Wireman	day	0.12	673.00	80.76
1010	Mason, Grade 2	day	0.12	612.00	73.44
1007	Khallasi	day	0.24	553.00	132.72
TOTAL					3507.81
Add 12% GST (MF = 0.1405)					492.85
TOTAL					4000.66
OVERHEADS & PROFIT @ 15 %					600.10
TOTAL					4600.76
Rate per Each					4600.76
Say					4601.00

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 amps 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 (Rs.)
MATERIALS					
1760	4 way (4+12), TPN, vertical type, MCB DB, double door	each	1.00	3955.00	3955.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					3982.00
Cartage @ 1 % of A1					39.82
LABOUR					
1001	Wireman	day	0.12	673.00	80.76
1010	Mason, Grade 2	day	0.12	612.00	73.44
1007	Khallasi	day	0.24	553.00	132.72
TOTAL					4308.74
Add 12% GST (MF = 0.1405)					605.38
TOTAL					4914.12
OVERHEADS & PROFIT @ 15 %					737.12
TOTAL					5651.24
Rate per Each					5651.24
Say					5651.00

2.5.2 8 way (4 + 24), Double door
Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1761	8 way (4+24), TPN, vertical type, MCB DB, double door	each	1.00	5535.00	5535.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					5562.00
Cartage @ 1 % of A1					55.62
LABOUR					
1001	Wireman	day	0.12	673.00	80.76
1010	Mason, Grade 2	day	0.12	612.00	73.44
1007	Khallasi	day	0.24	553.00	132.72
TOTAL					5904.54
Add 12% GST (MF = 0.1405)					829.59

TOTAL	6734.13
OVERHEADS & PROFIT @ 15 %	1010.12
TOTAL	7744.25
Rate per Each	7744.25
Say	7744.00

2.5.3 12 way (4 + 36), Double door**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1762	12 way (4+36), TPN, vertical type, MCB DB, double door	each	1.00	7108.00	7108.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				7135.00
	Cartage @ 1 % of A1				71.35
LABOUR					
1001	Wireman	day	0.12	673.00	80.76
1010	Mason, Grade 2	day	0.12	612.00	73.44
1007	Khallasi	day	0.24	553.00	132.72
	TOTAL				7493.27
	Add 12% GST (MF = 0.1405)				1052.80
	TOTAL				8546.07
	OVERHEADS & PROFIT @ 15 %				1281.91
	TOTAL				9827.98
	Rate per Each				9827.98
	Say				9828.00

2.6 DELETED**2.7 DELETED****2.8 DELETED****2.9 DELETED**

2.10 Supplying and fixing 5 amps to 32 amps 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 (Rs.)
MATERIALS					
1706	6 A to 32 A ratings , SP MCB, "C" curve, 10 KA breaking capacity	each	1.00	102.00	102.00
	Total cost of materials				102.00
	Cartage @ 1 % of A1				1.02
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				152.06
	Add 12% GST (MF = 0.1405)				21.36
	TOTAL				173.42
	OVERHEADS & PROFIT @ 15 %				26.01
	TOTAL				199.43
	Rate per Each				199.43
	Say				199.00

2.10.2 Single pole and neutral**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1707	6 A to 32 A ratings , SPN MCB, "C" curve, 10 KA breaking capacity	each	1.00	362.40	362.40
	Total cost of materials				362.40
	Cartage @ 1 % of A1				3.62
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				415.06
	Add 12% GST (MF = 0.1405)				58.32
	TOTAL				473.38

OVERHEADS & PROFIT @ 15 %	71.01
TOTAL	544.39
Rate per Each	544.39
Say	544.00

2.10.3 Double pole**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1708	6 A to 32 A ratings , DP MCB, “C” curve, 10 KA breaking capacity	each	1.00	371.00	371.00
	Total cost of materials				371.00
	Cartage @ 1 % of A1				3.71
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				423.75
	Add 12% GST (MF = 0.1405)				59.54
	TOTAL				483.29
	OVERHEADS & PROFIT @ 15 %				72.49
	TOTAL				555.78
	Rate per Each				555.78
	Say				556.00

2.10.4 Triple pole**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1709	6 A to 32 A ratings , TP MCB, “C” curve, 10 KA breaking capacity	each	1.00	575.00	575.00
	Total cost of materials				575.00
	Cartage @ 1 % of A1				5.75
LABOUR					
1001	Wireman	day	0.04	673.00	26.92

1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				629.79
	Add 12% GST (MF = 0.1405)				88.49
	TOTAL				718.28
	OVERHEADS & PROFIT @ 15 %				107.74
	TOTAL				826.02
	Rate per Each				826.02
	Say				826.00

2.10.5 Triple pole and neutral

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1710	6 A to 32 A ratings , TPN MCB, "C" curve, 10 KA breaking capacity	each	1.00	776.00	776.00
	Total cost of materials				776.00
	Cartage @ 1 % of A1				7.76
	LABOUR				
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				832.80
	Add 12% GST (MF = 0.1405)				117.01
	TOTAL				949.81
	OVERHEADS & PROFIT @ 15 %				142.47
	TOTAL				1092.28
	Rate per Each				1092.28
	Say				1092.00

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 (Rs.)
	MATERIALS				
1711	Single pole, blanking plate	each	1.00	5.00	5.00
	Total cost of materials				5.00

	Cartage @ 1 % of A1				0.05
	LABOUR				
1001	Wireman	day	0.001	673.00	0.67
1007	Khallasi	day	0.001	553.00	0.55
	TOTAL				6.27
	Add 12% GST (MF = 0.1405)				0.88
	TOTAL				7.15
	OVERHEADS & PROFIT @ 15 %				1.07
	TOTAL				8.22
	Rate per Each				8.22
	Say				8.00

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 amps

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1712	40 A, 2 pole isolator	each	1.00	207.00	207.00
	Total cost of materials				207.00
	Cartage @ 1 % of A1				2.07
	LABOUR				
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
	TOTAL				258.11
	Add 12% GST (MF = 0.1405)				36.26
	TOTAL				294.37
	OVERHEADS & PROFIT @ 15 %				44.16
	TOTAL				338.53
	Rate per Each				338.53
	Say				339.00

2.12.2 63 A

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1713	63 A, 2 pole isolator	each	1.00	242.00	242.00

Total cost of materials					242.00
Cartage @ 1 % of A1					2.42
LABOUR					
1001	Wireman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
TOTAL					293.46
Add 12% GST (MF = 0.1405)					41.23
TOTAL					334.69
OVERHEADS & PROFIT @ 15 %					50.20
TOTAL					384.89
Rate per Each					384.89
Say					385.00

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 (Rs.)
MATERIALS					
1714	40 A, 4 pole isolator	each	1.00	531.00	531.00
Total cost of materials					531.00
Cartage @ 1 % of A1					5.31
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1007	Khallasi	day	0.08	553.00	44.24
TOTAL					634.39
Add 12% GST (MF = 0.1405)					89.13
TOTAL					723.52
OVERHEADS & PROFIT @ 15 %					108.53
TOTAL					832.05
Rate per Each					832.05
Say					832.00

2.13.2 63 A

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1715	63 A, 4 pole isolator	each	1.00	536.00	536.00
Total cost of materials					536.00
Cartage @ 1 % of A1					5.36

LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1007	Khallasi	day	0.08	553.00	44.24
TOTAL					639.44
Add 12% GST (MF = 0.1405)					89.84
TOTAL					729.28
OVERHEADS & PROFIT @ 15 %					109.39
TOTAL					838.67
Rate per Each					838.67
Say					839.00

2.13.3 100 A

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1716	100 A, 4 pole isolator	each	1.00	693.00	693.00
Total cost of materials					693.00
Cartage @ 1 % of A1					6.93
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1007	Khallasi	day	0.08	553.00	44.24
TOTAL					798.01
Add 12% GST (MF = 0.1405)					112.12
TOTAL					910.13
OVERHEADS & PROFIT @ 15 %					136.52
TOTAL					1046.65
Rate per Each					1046.65
Say					1047.00

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 amperes 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 (Rs.)
MATERIALS					
1717	25 A rating, 2 pole RCCB, 30 mA	each	1.00	1394.00	1394.00
	Total cost of materials				1394.00
	Cartage @ 1 % of A1				13.94
LABOUR					
1001	Wireman	day	0.05	673.00	33.65
1007	Khallas	day	0.05	553.00	27.65
	TOTAL				1469.24
	Add 12% GST (MF = 0.1405)				206.43
	TOTAL				1675.67
	OVERHEADS & PROFIT @ 15 %				251.35
	TOTAL				1927.02
	Rate per Each				1927.02
	Say				1927.00

2.14.2 40 A**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1718	40 A rating, 2 pole RCCB, 30 mA	each	1.00	1521.00	1521.00
	Total cost of materials				1521.00
	Cartage @ 1 % of A1				15.21
LABOUR					
1001	Wireman	day	0.05	673.00	33.65
1007	Khallas	day	0.05	553.00	27.65
	TOTAL				1597.51
	Add 12% GST (MF = 0.1405)				224.45
	TOTAL				1821.96
	OVERHEADS & PROFIT @ 15 %				273.29
	TOTAL				2095.25
	Rate per Each				2095.25
	Say				2095.00

2.14.3 63 A

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1719	63 A rating, 2 pole RCCB, 30 mA	each	1.00	1932.00	1932.00
	Total cost of materials				1932.00
	Cartage @ 1 % of A1				19.32
LABOUR					
1001	Wireman	day	0.05	673.00	33.65
1007	Khallasi	day	0.05	553.00	27.65
	TOTAL				2012.62
	Add 12% GST (MF = 0.1405)				282.77
	TOTAL				2295.39
	OVERHEADS & PROFIT @ 15 %				344.31
	TOTAL				2639.70
	Rate per Each				2639.70
	Say				2640.00

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 amperes 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 (Rs.)
MATERIALS					
1720	25 A rating, 4 pole RCCB, 30 mA	each	1.00	1810.00	1810.00
	Total cost of materials				1810.00
	Cartage @ 1 % of A1				18.10
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1007	Khallasi	day	0.08	553.00	44.24
	TOTAL				1926.18
	Add 12% GST (MF = 0.1405)				270.63
	TOTAL				2196.81

OVERHEADS & PROFIT @ 15 %	329.52
TOTAL	2526.33
Rate per Each	2526.33
Say	2526.00

2.15.2 40 A**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1721	40 A rating, 4 pole RCCB, 30 mA	each	1.00	1885.00	1885.00
	Total cost of materials				1885.00
	Cartage @ 1 % of A1				18.85
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1007	Khallasi	day	0.08	553.00	44.24
	TOTAL				2001.93
	Add 12% GST (MF = 0.1405)				281.27
	TOTAL				2283.20
	OVERHEADS & PROFIT @ 15 %				342.48
	TOTAL				2625.68
	Rate per Each				2625.68
	Say				2626.00

2.15.3 63 A**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1722	63 amps. rating, 4 pole RCCB, 30 mA	each	1.00	1999.00	1999.00
	Total cost of materials				1999.00
	Cartage @ 1 % of A1				19.99
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1007	Khallasi	day	0.08	553.00	44.24

TOTAL	2117.07
Add 12% GST (MF = 0.1405)	297.45
TOTAL	2414.52
OVERHEADS & PROFIT @ 15 %	362.18
TOTAL	2776.70
Rate per Each	2776.70
Say	2777.00

2.16 Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32amps 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 (Rs.)
MATERIALS					
1742	Sheet steel DP MCB enclosure	each	1.00	148.00	148.00
1708	6 A to 32 A ratings , DP MCB, “C” curve, 10 KA breaking capacity	each	1.00	371.00	371.00
	Total cost of materials				519.00
	Cartage @ 1 % of A1				5.19
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				646.79
	Add 12% GST (MF = 0.1405)				90.87
	TOTAL				737.66
	OVERHEADS & PROFIT @ 15 %				110.65
	TOTAL				848.31
	Rate per Each				848.31
	Say				848.00

2.17 Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32amps 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 (Rs.)
MATERIALS					
1743	Sheet steel TP MCB enclosure	each	1.00	169.00	169.00
1709	6 A to 32 A ratings , TP MCB, “C” curve, 10 KA breaking capacity	each	1.00	575.00	575.00

Total cost of materials					744.00
Cartage @ 1 % of A1					7.44
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					874.04
Add 12% GST (MF = 0.1405)					122.80
TOTAL					996.84
OVERHEADS & PROFIT @ 15 %					149.53
TOTAL					1146.37
Rate per Each					1146.37
Say					1146.00

- 2.18 Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps “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 (Rs.)
MATERIALS					
1730	20 A SPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1.00	490.00	490.00
1706	6 A to 32 amps. ratings , SP MCB, “C” curve, 10 KA breaking capacity	each	1.00	102.00	102.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					619.00
Cartage @ 1 % of A1					6.19
LABOUR					
1001	Wireman	day	0.180	673.00	121.14
1010	Mason, Grade 2	day	0.180	612.00	110.16
1007	Khallasi	day	0.15	553.00	82.95
TOTAL					939.44

Add 12% GST (MF = 0.1405)	131.99
TOTAL	1071.43
OVERHEADS & PROFIT @ 15 %	160.71
TOTAL	1232.14
Rate per Each	1232.14
Say	1232.00

- 2.19 Supplying and fixing 20 amps, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 20 amps “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 (Rs.)
MATERIALS					
1731	20 A TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1.00	490.00	490.00
1709	6 A to 32 A ratings , TP MCB, “C” curve, 10 KA breaking capacity	each	1.00	575.00	575.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					1092.00
Cartage @ 1 % of A1					10.92
LABOUR					
1001	Wireman	day	0.080	673.00	53.84
1010	Mason, Grade 2	day	0.080	612.00	48.96
1007	Khallasi	day	0.15	553.00	82.95
TOTAL					1288.67
Add 12% GST (MF = 0.1405)					181.06
TOTAL					1469.73
OVERHEADS & PROFIT @ 15 %					220.46
TOTAL					1690.19
Rate per Each					1690.19
Say					1690.00

- 2.20 Supplying and fixing 30 amps, 415 volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top alongwith 30 amps “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 (Rs.)
MATERIALS					
1732	30 A TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1.00	1515.00	1515.00
1709	6 A to 32 A ratings , TP MCB, “C” curve, 10 KA breaking capacity	each	1.00	575.00	575.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
Total cost of materials					2117.00
Cartage @ 1 % of A1					21.17
LABOUR					
1001	Wireman	day	0.080	673.00	53.84
1010	Mason, Grade 2	day	0.080	612.00	48.96
1007	Khallasi	day	0.15	553.00	82.95
TOTAL					2323.92
Add 12% GST (MF = 0.1405)					326.51
TOTAL					2650.43
OVERHEADS & PROFIT @ 15 %					397.56
TOTAL					3047.99
Rate per Each					3047.99
Say					3048.00

- 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 (Rs.)
MATERIALS					
2933	200 mm X 150 mm M.V. danger notice plate	each	1.00	48.00	48.00
2865	15 mm long X 6 mm dia G.I. bolts and nuts	each	6.00	4.20	25.20
Total cost of materials					73.20

	Cartage @ 1 % of A1				0.73
	LABOUR				
1001	Wireman	day	0.08	673.00	53.84
1007	Khallasi	day	0.08	553.00	44.24
	TOTAL				172.01
	Add 12% GST (MF = 0.1405)				24.17
	TOTAL				196.18
	OVERHEADS & PROFIT @ 15 %				29.43
	TOTAL				225.61
	Rate per Each				225.61
	Say				226.00

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 (Rs.)
	MATERIALS				
2932	250 mm X 200 mm H.T. danger notice plate	each	1.00	62.00	62.00
2865	15 mm long X 6 mm dia G.I. bolts and nuts	each	6.00	4.20	25.20
	Total cost of materials				87.20
	Cartage @ 1 % of A1				0.87
	LABOUR				
1001	Wireman	day	0.080	673.00	53.84
1007	Khallasi	day	0.080	553.00	44.24
	TOTAL				186.15
	Add 12% GST (MF = 0.1405)				26.15
	TOTAL				212.31
	OVERHEADS & PROFIT @ 15 %				31.85
	TOTAL				244.16
	Rate per Each				244.16
	Say				244.00

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

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
1801	Cable End Boxes for 6 Way SPN DD DB	Each	1.00	314.29	314.29
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				341.29
	Cartage @ 1 %				3.41
	LABOUR				
1001	Wireman	day	0.06	673.00	40.38
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				479.46
	Add 12% GST (MF = 0.1405)				67.36
	TOTAL				546.83
	Add 15 % Over Head & Contractor Profit				82.02
	TOTAL				628.85
	Rate per Each				628.85
	Say				629.00

2.23.2 For 8 way, Double door SPN MCBDB

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
1802	Cable End Boxes for 8 Way SPN DD DB	Each	1.00	391.74	391.74
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				418.74
	Cartage @ 1 %				4.19
	LABOUR				
1001	Wireman	day	0.06	673.00	40.38
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				557.69
	Add 12% GST (MF = 0.1405)				78.36
	TOTAL				636.04
	Add 15 % Over Head & Contractor Profit				95.41
	TOTAL				731.45
	Rate per Each				731.45
	Say				731.00

2.23.3 For 10 way, Double door SPN MCBDB**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
1803	Cable End Boxes for 10 Way SPN DD DB	Each	1.00	403.00	403.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				430.00
	Cartage @ 1 %				4.30
LABOUR					
1001	Wireman	day	0.06	673.00	40.38
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				569.06
	Add 12% GST (MF = 0.1405)				79.95
	TOTAL				649.01
	Add 15 % Over Head & Contractor Profit				97.35
	TOTAL				746.36
	Rate per Each				746.36
	Say				746.00

2.23.4 For 14 way, Double door SPN MCBDB**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
1804	Cable End Boxes for 14 Way SPN DD DB	Each	1.00	492.00	492.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				519.00
	Cartage @ 1 %				5.19
LABOUR					
1001	Wireman	day	0.06	673.00	40.38
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				658.95

Add 12% GST (MF = 0.1405)	92.58
TOTAL	751.53
Add 15 % Over Head & Contractor Profit	112.73
TOTAL	864.26
Rate per Each	864.26
Say	864.00

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

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
1805	Cable End Boxes for 4 Way TPN DD DB	Each	1.00	522.32	522.32
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				549.32
	Cartage @ 1 %				5.49
LABOUR					
1001	Wireman	day	0.06	673.00	40.38
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				689.57
	Add 12% GST (MF = 0.1405)				96.89
	TOTAL				786.46
	Add 15 % Over Head & Contractor Profit				117.97
	TOTAL				904.43
	Rate per Each				904.43
	Say				904.00

2.24.2 For 6 way, Double door TPN MCBDB

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
1806	Cable End Boxes for 6 Way TPN DD DB	Each	1.00	641.29	641.29
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00

2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				668.29
	Cartage @ 1 %				6.68
	LABOUR				
1001	Wireman	day	0.06	673.00	40.38
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				809.73
	Add 12% GST (MF = 0.1405)				113.77
	TOTAL				923.50
	Add 15 % Over Head & Contractor Profit				138.53
	TOTAL				1062.03
	Rate per Each				1062.03
	Say				1062.00

2.24.3 For 8 way, Double door TPN MCBDB

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
1807	Cable End Boxes for 8 Way TPN DD DB	Each	1.00	774.78	774.78
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				801.78
	Cartage @ 1 %				8.02
	LABOUR				
1001	Wireman	day	0.06	673.00	40.38
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				944.56
	Add 12% GST (MF = 0.1405)				132.71
	TOTAL				1077.27
	Add 15 % Over Head & Contractor Profit				161.59
	TOTAL				1238.86
	Rate per Each				1238.86
	Say				1239.00

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.

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
1808	Cable End Boxes for Vertical TPN DD DB	Each	1.00	416.00	416.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2935	Cement, paint, sand etc.	L.S.	1.00	5.00	5.00
	Total cost of materials				443.00
	Cartage @ 1 %				4.43
	LABOUR				
1001	Wireman	day	0.06	673.00	40.38
1010	Mason, Grade 2	day	0.10	612.00	61.20
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				582.19
	Add 12% GST (MF = 0.1405)				81.80
	TOTAL				663.99
	Add 15 % Over Head & Contractor Profit				99.60
	TOTAL				763.59
	Rate per Each				763.59
	Say				764.00

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 conforming to IS 8623, TEC 439)**

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

Details of cost for 10 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1501	200 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	metre	10.00	4213.64	42136.40
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.5m = 3.5m @ 2.1 kg/m = 7.35kg	kg	7.35	33.00	242.55
Total cost of materials					42378.95
Cartage @ 1 % of A1					423.79
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.00	553.00	1659.00
TOTAL					46419.74
Add 12% GST (MF = 0.1405)					6521.97
TOTAL					52941.71
OVERHEADS & PROFIT @ 15 %					7941.26
Cost for 10 Metre					60882.97
Rate per Metre					6088.30
Say					6088.00

3.1.2 300 A (Isc=20 kA for 1 second)

Details of cost for 10 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1502	300 A TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	metre	10.00	4405.17	44051.70
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.5m = 3.5m @ 2.1 kg/m = 7.35kg	kg	7.35	33.00	242.55
Total cost of materials					44294.25
Cartage @ 1 % of A1					442.94
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.00	553.00	1659.00
TOTAL					48354.19
Add 12% GST (MF = 0.1405)					6793.76
TOTAL					55147.96
OVERHEADS & PROFIT @ 15 %					8272.19
Cost for 10 Metre					63420.15
Rate per Metre					6342.01
Say					6342.00

3.1.3 400 A (ISC rating for 1 sec. - 25 KA)**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1503	400 A TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	metre	10.00	5458.57	54585.70
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.5m = 3.5m @ 2.1 kg/m = 7.35kg	kg	7.35	33.00	242.55
Total cost of materials					54828.25
Cartage @ 1 % of A1					548.28
LABOUR					
1001	Wireman	day	2.25	673.00	1514.25
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.25	553.00	1797.25
TOTAL					59300.03
Add 12% GST (MF = 0.1405)					8331.65

TOTAL	67631.69
OVERHEADS & PROFIT @ 15 %	10144.75
Cost for 10 Metre	77776.44
Rate per Metre	7777.64
Say	7778.00

3.1.4 600 A (ISC rating for 1 sec. - 45 KA)**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1504	600 A TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	metre	10.00	6128.92	61289.20
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.6m = 4.2m @ 2.1 kg/m = 8.82kg	kg	8.82	33.00	291.06
Total cost of materials					61580.26
Cartage @ 1 % of A1					615.80
LABOUR					
1001	Wireman	day	2.25	673.00	1514.25
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallas	day	3.25	553.00	1797.25
TOTAL					66119.56
Add 12% GST (MF = 0.1405)					9289.80
TOTAL					75409.36
OVERHEADS & PROFIT @ 15 %					11311.40
Cost for 10 Metre					86720.76
Rate per Metre					8672.08
Say					8672.00

3.1.5 800 A (ISC rating for 1 sec. - 50 KA)**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1505	800 A TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	metre	10.00	7421.75	74217.50
2805	35 mm X 35 mm X 4 mm angle iron = 7x0.6m = 4.2m @ 2.1 kg/m = 8.82kg	kg	8.82	33.00	291.06

Total cost of materials					74508.56
Cartage @ 1 % of A1					745.09
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
TOTAL					79483.65
Add 12% GST (MF = 0.1405)					11167.45
TOTAL					90651.10
OVERHEADS & PROFIT @ 15 %					13597.66
Cost for 10 Metre					104248.76
Rate per Metre					10424.88
Say					10425.00

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 disconnecter 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 (Rs.)
MATERIALS					
1541	16 A TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	1.00	6019.00	6019.00
Total cost of materials					6019.00
Cartage @ 1 % of A1					60.19
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					6201.79
Add 12% GST (MF = 0.1405)					871.35
TOTAL					7073.14
OVERHEADS & PROFIT @ 15 %					1060.97
TOTAL					8134.11
Rate per Each					8134.11
Say					8134.00

3.2.2 32 A TPN**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1542	32 A TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	1.00	6348.00	6348.00
	Total cost of materials				6348.00
	Cartage @ 1 % of A1				63.48
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				6534.08
	Add 12% GST (MF = 0.1405)				918.04
	TOTAL				7452.12
	OVERHEADS & PROFIT @ 15 %				1117.82
	TOTAL				8569.94
	Rate per Each				8569.94
	Say				8570.00

3.2.3 63 A TPN**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1543	63 A TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	1.00	7114.00	7114.00
	Total cost of materials				7114.00
	Cartage @ 1 % of A1				71.14
LABOUR					
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				7344.52
	Add 12% GST (MF = 0.1405)				1031.91
	TOTAL				8376.43
	OVERHEADS & PROFIT @ 15 %				1256.46

TOTAL	9632.89
Rate per Each	9632.89
Say	9633.00

3.2.4 100 A TPN**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1544	100 A TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	1.00	8208.00	8208.00
	Total cost of materials				8208.00
	Cartage @ 1 % of A1				82.08
LABOUR					
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				8449.46
	Add 12% GST (MF = 0.1405)				1187.15
	TOTAL				9636.61
	OVERHEADS & PROFIT @ 15 %				1445.49
	TOTAL				11082.10
	Rate per Each				11082.10
	Say				11082.00

3.2.5 200 A TPN**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1545	200 A TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	1.00	12915.00	12915.00
	Total cost of materials				12915.00
	Cartage @ 1 % of A1				129.15
LABOUR					
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01

TOTAL	13252.57
Add 12% GST (MF = 0.1405)	1861.99
TOTAL	15114.56
OVERHEADS & PROFIT @ 15 %	2267.18
TOTAL	17381.74
Rate per Each	17381.74
Say	17382.00

3.2.6 315 A TPN**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1546	315 A TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	No	1.00	13681.00	13681.00
	Total cost of materials				13681.00
	Cartage @ 1 % of A1				136.81
LABOUR					
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
	TOTAL				14026.23
	Add 12% GST (MF = 0.1405)				1970.69
	TOTAL				15996.92
	OVERHEADS & PROFIT @ 15 %				2399.54
	TOTAL				18396.46
	Rate per Each				18396.46
	Say				18396.00

3.2.7 400 A TPN**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1547	400 A TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	No	1.00	14228.00	14228.00
	Total cost of materials				14228.00

	Cartage @ 1 % of A1				142.28
	LABOUR				
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
	TOTAL				14578.70
	Add 12% GST (MF = 0.1405)				2048.31
	TOTAL				16627.01
	OVERHEADS & PROFIT @ 15 %				2494.05
	TOTAL				19121.06
	Rate per Each				19121.06
	Say				19121.00

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 (Rs.)
	MATERIALS				
1511	16 A TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	7524.35	7524.35
	Total cost of materials				7524.35
	Cartage @ 1 % of A1				75.24
	LABOUR				
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				7758.97
	Add 12% GST (MF = 0.1405)				1090.14
	TOTAL				8849.11
	OVERHEADS & PROFIT @ 15 %				1327.37
	TOTAL				10176.48
	Rate per Each				10176.48
	Say				10176.00

3.3.2 16 A TPN, 4 way

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1512	16 A TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	16964.00	16964.00
	Total cost of materials				16964.00
	Cartage @ 1 % of A1				169.64
LABOUR					
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				17293.02
	Add 12% GST (MF = 0.1405)				2429.67
	TOTAL				19722.69
	OVERHEADS & PROFIT @ 15 %				2958.40
	TOTAL				22681.09
	Rate per Each				22681.09
	Say				22681.00

3.3.3 16 A TPN, 6 way

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1513	16 A TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	24078.00	24078.00
	Total cost of materials				24078.00
	Cartage @ 1 % of A1				240.78
LABOUR					
1001	Wireman	day	0.15	673.00	100.95
1007	Khallasi	day	0.15	553.00	82.95
	TOTAL				24502.68
	Add 12% GST (MF = 0.1405)				3442.63
	TOTAL				27945.31
	OVERHEADS & PROFIT @ 15 %				4191.80
	TOTAL				32137.11
	Rate per Each				32137.11
	Say				32137.00

3.3.4 16 A TPN, 8 way

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1514	16 A TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	33381.00	33381.00
	Total cost of materials				33381.00
	Cartage @ 1 % of A1				333.81
	LABOUR				
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
	TOTAL				33923.23
	Add 12% GST (MF = 0.1405)				4766.21
	TOTAL				38689.44
	OVERHEADS & PROFIT @ 15 %				5803.42
	TOTAL				44492.86
	Rate per Each				44492.86
	Say				44493.00

3.3.5 32 A TPN, 2 way

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1515	32 A TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	9303.00	9303.00
	Total cost of materials				9303.00
	Cartage @ 1 % of A1				93.03
	LABOUR				
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				9555.41
	Add 12% GST (MF = 0.1405)				1342.54
	TOTAL				10897.95
	OVERHEADS & PROFIT @ 15 %				1634.69
	TOTAL				12532.64
	Rate per Each				12532.64
	Say				12533.00

3.3.6 32 A TPN, 4 way**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1516	32 A TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	19153.00	19153.00
	Total cost of materials				19153.00
	Cartage @ 1 % of A1				191.53
	LABOUR				
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				19503.91
	Add 12% GST (MF = 0.1405)				2740.30
	TOTAL				22244.21
	OVERHEADS & PROFIT @ 15 %				3336.63
	TOTAL				25580.84
	Rate per Each				25580.84
	Say				25581.00

3.3.7 32 A TPN, 6 way**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1517	32 A TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	25172.00	25172.00
	Total cost of materials				25172.00
	Cartage @ 1 % of A1				251.72
	LABOUR				
1001	Wireman	day	0.15	673.00	100.95
1007	Khallasi	day	0.15	553.00	82.95
	TOTAL				25607.62
	Add 12% GST (MF = 0.1405)				3597.87
	TOTAL				29205.49
	OVERHEADS & PROFIT @ 15 %				4380.82
	TOTAL				33586.31
	Rate per Each				33586.31
	Say				33586.00

3.3.8 32 A TPN, 8 way**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1518	32 A TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	35022.00	35022.00
	Total cost of materials				35022.00
	Cartage @ 1 % of A1				350.22
LABOUR					
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
	TOTAL				35580.64
	Add 12% GST (MF = 0.1405)				4999.08
	TOTAL				40579.72
	OVERHEADS & PROFIT @ 15 %				6086.96
	TOTAL				46666.68
	Rate per Each				46666.68
	Say				46667.00

3.3.9 63 A TPN, 2 way**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1519	63 amps. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	10616.00	10616.00
	Total cost of materials				10616.00
	Cartage @ 1 % of A1				106.16
LABOUR					
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				10881.54
	Add 12% GST (MF = 0.1405)				1528.86
	TOTAL				12410.40
	OVERHEADS & PROFIT @ 15 %				1861.56
	TOTAL				14271.96
	Rate per Each				14271.96
	Say				14272.00

3.3.10 63 A TPN, 4 way**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1520	63 A TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	18058.00	18058.00
	Total cost of materials				18058.00
	Cartage @ 1 % of A1				180.58
LABOUR					
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				18397.96
	Add 12% GST (MF = 0.1405)				2584.91
	TOTAL				20982.87
	OVERHEADS & PROFIT @ 15 %				3147.43
	TOTAL				24130.30
	Rate per Each				24130.30
	Say				24130.00

3.3.11 63 A TPN, 6 way**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1521	63 A TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	19481.00	19481.00
	Total cost of materials				19481.00
	Cartage @ 1 % of A1				194.81
LABOUR					
1001	Wireman	day	0.15	673.00	100.95
1007	Khallasi	day	0.15	553.00	82.95
	TOTAL				19859.71
	Add 12% GST (MF = 0.1405)				2790.29
	TOTAL				22650.00
	OVERHEADS & PROFIT @ 15 %				3397.50
	TOTAL				26047.50
	Rate per Each				26047.50
	Say				26047.00

3.3.12 63 A TPN, 8 way**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1522	63 A TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	33600.00	33600.00
	Total cost of materials				33600.00
	Cartage @ 1 % of A1				336.00
LABOUR					
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
	TOTAL				34144.42
	Add 12% GST (MF = 0.1405)				4797.29
	TOTAL				38941.71
	OVERHEADS & PROFIT @ 15 %				5841.26
	TOTAL				44782.97
	Rate per Each				44782.97
	Say				44783.00

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 disconnecter 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 (Rs.)
MATERIALS					
1526	200 A TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.00	15103.00	15103.00
2211	Aluminium lugs for 185 sq. mm cable	each	3.00	19.00	57.00
2208	Aluminium lugs for 95 sq. mm cable	each	1.00	8.00	8.00
	Total cost of materials				15168.00

	Cartage @ 1 % of A1				151.68
	LABOUR				
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
	TOTAL				15528.10
	Add 12% GST (MF = 0.1405)				2181.70
	TOTAL				17709.80
	OVERHEADS & PROFIT @ 15 %				2656.47
	TOTAL				20366.27
	Rate per Each				20366.27
	Say				20366.00

3.4.2 300 A TPN**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1527	300 A TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.00	16417.00	16417.00
2214	Aluminium lugs for 300 sq. mm cable	each	3.00	45.00	135.00
2210	Aluminium lugs for 150 sq. mm cable	each	1.00	15.00	15.00
	Total cost of materials				16567.00
	Cartage @ 1 % of A1				165.67
	LABOUR				
1001	Wireman	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				17039.17
	Add 12% GST (MF = 0.1405)				2394.00
	TOTAL				19433.17
	OVERHEADS & PROFIT @ 15 %				2914.98
	TOTAL				22348.15
	Rate per Each				22348.15
	Say				22348.00

3.4.3 400 A TPN**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1528	400 amps. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.00	18058.00	18058.00
2215	Aluminium lugs for 400 sq. mm cable	each	3.00	65.00	195.00
2212	Aluminium lugs for 225 sq. mm cable	each	1.00	27.00	27.00
Total cost of materials					18280.00
Cartage @ 1 % of A1					182.80
LABOUR					
1001	Wireman	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					18867.38
Add 12% GST (MF = 0.1405)					2650.87
TOTAL					21518.25
OVERHEADS & PROFIT @ 15 %					3227.74
TOTAL					24745.99
Rate per Each					24745.99
Say					24746.00

3.4.4 600 A TPN**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1529	600 A TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	1.00	19481.00	19481.00
2214	Aluminium lugs for 300 sq. mm cable	each	6.00	45.00	270.00
2210	Aluminium lugs for 150 sq. mm cable	each	2.00	15.00	30.00
Total cost of materials					19781.00

	Cartage @ 1 % of A1				197.81
	LABOUR				
1001	Wireman	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				20383.39
	Add 12% GST (MF = 0.1405)				2863.87
	TOTAL				23247.26
	OVERHEADS & PROFIT @ 15 %				3487.09
	TOTAL				26734.35
	Rate per Each				26734.35
	Say				26734.00

3.4.5 800 A TPN**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1530	800 A TPN, adaptor box with cable end box, with TPN disconnecter 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	6.00	65.00	390.00
2212	Aluminium lugs for 225 sq. mm cable	each	2.00	27.00	54.00
	Total cost of materials				22114.00
	Cartage @ 1 % of A1				221.14
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				22948.14
	Add 12% GST (MF = 0.1405)				3224.21
	TOTAL				26172.35
	OVERHEADS & PROFIT @ 15 %				3925.85
	TOTAL				30098.20
	Rate per Each				30098.20
	Say				30098.00

- 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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1531	800 A TPN, bus trunking with aluminium busbars	metre	10.00	8482.00	84820.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	33.00	291.06
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	7.30	102.20
Total cost of materials					85535.26
Cartage @ 1 % of A1					855.35
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1007	Khallasi	day	2.00	553.00	1106.00
TOTAL					88842.61
Add 12% GST (MF = 0.1405)					12482.39
TOTAL					101325.00
OVERHEADS & PROFIT @ 15 %					15198.75
Cost for 10 Metre					116523.75
Rate per Metre					11652.37
Say					11652.00

3.5.2 1000 A

Details of cost for 10 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1532	1000 amps. TPN, bus trunking with aluminium busbars	metre	10.00	10069.00	100690.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	33.00	291.06

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	7.30	102.20
Total cost of materials					101405.26
Cartage @ 1 % of A1					1014.05
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1007	Khallasi	day	2.00	553.00	1106.00
TOTAL					104871.31
Add 12% GST (MF = 0.1405)					14734.42
TOTAL					119605.73
OVERHEADS & PROFIT @ 15 %					17940.86
Cost for 10 Metre					137546.59
Rate per Metre					13754.66
Say					13755.00

3.5.3 1250 A**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1533	1250 A TPN, bus trunking with aluminium busbars	metre	10.00	12915.00	129150.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	11.03	33.00	363.99
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	7.30	102.20
Total cost of materials					129938.19
Cartage @ 1 % of A1					1299.38
LABOUR					
1001	Wireman	day	3.00	673.00	2019.00
1007	Khallasi	day	3.00	553.00	1659.00
TOTAL					134915.57
Add 12% GST (MF = 0.1405)					18955.64
TOTAL					153871.21
OVERHEADS & PROFIT @ 15 %					23080.68
Cost for 10 Metre					176951.89
Rate per Metre					17695.19
Say					17695.00

3.5.4 1400 A**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1534	1400 amps. TPN, bus trunking with aluminium busbars	metre	10.00	16198.00	161980.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	11.03	33.00	363.99
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	7.30	102.20
Total cost of materials					162768.19
Cartage @ 1 % of A1					1627.68
LABOUR					
1001	Wireman	day	3.00	673.00	2019.00
1007	Khallasi	day	3.00	553.00	1659.00
TOTAL					168073.87
Add 12% GST (MF = 0.1405)					23614.38
TOTAL					191688.25
OVERHEADS & PROFIT @ 15 %					28753.24
Cost for 10 Metre					220441.49
Rate per Metre					22044.15
Say					22044.00

3.5.5 1600 A**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1535	1600 A TPN, bus trunking with aluminium busbars	metre	10.00	16198.00	161980.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	9.80	33.00	323.40
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	7.30	102.20
Total cost of materials					162727.60
Cartage @ 1 % of A1					1627.28
LABOUR					
1001	Wireman	day	3.50	673.00	2355.50

1007	Khallasi	day	3.50	553.00	1935.50
	TOTAL				168645.88
	Add 12% GST (MF = 0.1405)				23694.75
	TOTAL				192340.62
	OVERHEADS & PROFIT @ 15 %				28851.09
	Cost for 10 Metre				221191.71
	Rate per Metre				22119.17
	Say				22119.00
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 Metres				
ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1536	200 A TPN, overhead busbars with aluminium busbars	metre	10.00	4816.00	48160.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	33.00	291.06
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	7.30	102.20
	Total cost of materials				48875.26
	Cartage @ 1 % of A1				488.75
	LABOUR				
1001	Wireman	day	2.00	673.00	1346.00
1007	Khallasi	day	2.00	553.00	1106.00
	TOTAL				51816.01
	Add 12% GST (MF = 0.1405)				7280.15
	TOTAL				59096.16
	OVERHEADS & PROFIT @ 15 %				8864.42
	Cost for 10 Metre				67960.58
	Rate per Metre				6796.06
	Say				6796.00

3.6.2 400 A**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1537	400 A TPN, overhead busbars with aluminium busbars	metre	10.00	6238.00	62380.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	8.82	33.00	291.06
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	7.30	102.20
Total cost of materials					63095.26
Cartage @ 1 % of A1					630.95
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1007	Khallasi	day	2.00	553.00	1106.00
TOTAL					66178.21
Add 12% GST (MF = 0.1405)					9298.04
TOTAL					75476.25
OVERHEADS & PROFIT @ 15 %					11321.44
Cost for 10 Metre					86797.69
Rate per Metre					8679.77
Say					8680.00

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 disconnecter 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 (Rs.)
MATERIALS					
1538	32 A TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	1.00	5441.00	5441.00
Total cost of materials					5441.00
Cartage @ 1 % of A1					54.41
LABOUR					

1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				5618.01
	Add 12% GST (MF = 0.1405)				789.33
	TOTAL				6407.34
	OVERHEADS & PROFIT @ 15 %				961.10
	TOTAL				7368.44
	Rate per Each				7368.44
	Say				7368.00

3.7.2 63 A**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1539	63 A TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	1.00	6098.00	6098.00
	Total cost of materials				6098.00
	Cartage @ 1 % of A1				60.98
	LABOUR				
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				6318.36
	Add 12% GST (MF = 0.1405)				887.73
	TOTAL				7206.09
	OVERHEADS & PROFIT @ 15 %				1080.91
	TOTAL				8287.00
	Rate per Each				8287.00
	Say				8287.00

3.7.3 100 A**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1540	100 A TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	1.00	7036.00	7036.00
	Total cost of materials				7036.00

Cartage @ 1 % of A1					70.36
LABOUR					
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
TOTAL					7265.74
Add 12% GST (MF = 0.1405)					1020.84
TOTAL					8286.58
OVERHEADS & PROFIT @ 15 %					1242.99
TOTAL					9529.57
Rate per Each					9529.57
Say					9530.00

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 metre, 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 15KA SC for 1 sec

Details of cost for 10 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1551	200 A TPN, compact type rising mains with aluminium busbar including all accessories	metre	10.00	5289.00	52890.00
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	33.00	64.02
Total cost of materials					52954.02
Cartage @ 1 % of A1					529.54
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.75	553.00	1520.75
TOTAL					56809.31
Add 12% GST (MF = 0.1405)					7981.71
TOTAL					64791.02

OVERHEADS & PROFIT @ 15 %	9718.65
Cost for 10 Metre	74509.67
Rate per Metre	7450.97
Say	7451.00

3.8.2 315 A 25KA SC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1552	315 A TPN, compact type rising mains with aluminium busbar including all accessories	metre	10.00	5727.00	57270.00
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	33.00	64.02
Total cost of materials					57334.02
Cartage @ 1 % of A1					573.34
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.75	553.00	1520.75
TOTAL					61233.11
Add 12% GST (MF = 0.1405)					8603.25
TOTAL					69836.36
OVERHEADS & PROFIT @ 15 %					10475.45
Cost for 10 Metre					80311.81
Rate per Metre					8031.18
Say					8031.00

3.8.3 400 A 30KA SC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1553	400 A TPN, compact type rising mains with aluminium busbar including all accessories	metre	10.00	6365.00	63650.00
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	33.00	64.02

Total cost of materials					63714.02
Cartage @ 1 % of A1					637.14
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.00	553.00	1659.00
TOTAL					67968.16
Add 12% GST (MF = 0.1405)					9549.53
TOTAL					77517.69
OVERHEADS & PROFIT @ 15 %					11627.65
Cost for 10 Metre					89145.34
Rate per Metre					8914.53
Say					8915.00

3.8.4 500 A 30KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1554	500 A TPN, compact type rising mains with aluminium busbar including all accessories	metre	10.00	7327.00	73270.00
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	33.00	64.02
Total cost of materials					73334.02
Cartage @ 1 % of A1					733.34
LABOUR					
1001	Wireman	day	2.25	673.00	1514.25
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.25	553.00	1797.25
TOTAL					77990.86
Add 12% GST (MF = 0.1405)					10957.72
TOTAL					88948.58
OVERHEADS & PROFIT @ 15 %					13342.29
Cost for 10 Metre					102290.87
Rate per Metre					10229.09
Say					10229.00

3.8.5 630 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1555	630 A TPN, compact type rising mains with aluminium busbar including all accessories	metre	10.00	8763.00	87630.00
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	33.00	64.02
Total cost of materials					87694.02
Cartage @ 1 % of A1					876.94
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
TOTAL					92800.96
Add 12% GST (MF = 0.1405)					13038.53
TOTAL					105839.50
OVERHEADS & PROFIT @ 15 %					15875.92
Cost for 10 Metre					121715.42
Rate per Metre					12171.54
Say					12172.00

3.8.6 630 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1556	800 A TPN, compact type rising mains with aluminium busbar including all accessories	metre	10.00	12162.00	121620.00
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	33.00	64.02
Total cost of materials					121684.02
Cartage @ 1 % of A1					1216.84
LABOUR					

1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
TOTAL					127130.86
Add 12% GST (MF = 0.1405)					17861.89
TOTAL					144992.75
OVERHEADS & PROFIT @ 15 %					21748.91
Cost for 10 Metre					166741.66
Rate per Metre					16674.17
Say					16674.00

3.8.7 1000 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1557	1000 A TPN, compact type rising mains with aluminium busbar including all accessories	metre	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	33.00	64.02
Total cost of materials					141304.02
Cartage @ 1 % of A1					1413.04
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
TOTAL					146947.06
Add 12% GST (MF = 0.1405)					20646.06
TOTAL					167593.12
OVERHEADS & PROFIT @ 15 %					25138.97
Cost for 10 Metre					192732.09
Rate per Metre					19273.21
Say					19273.00

3.8.8 1250 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1558	1250 A TPN, compact type rising mains with aluminium busbar including all accessories	metre	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	33.00	64.02
Total cost of materials					168484.02
Cartage @ 1 % of A1					1684.84
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallas	day	3.50	553.00	1935.50
TOTAL					174398.86
Add 12% GST (MF = 0.1405)					24503.04
TOTAL					198901.90
OVERHEADS & PROFIT @ 15 %					29835.29
Cost for 10 Metre					228737.19
Rate per Metre					22873.72
Say					22874.00

- 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 15KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1559	200 A TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	10.00	5376.00	53760.00

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	33.00	64.02
	Total cost of materials				53824.02
	Cartage @ 1 % of A1				538.24
	LABOUR				
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.75	553.00	1520.75
	TOTAL				57688.01
	Add 12% GST (MF = 0.1405)				8105.17
	TOTAL				65793.18
	OVERHEADS & PROFIT @ 15 %				9868.98
	Cost for 10 Metre				75662.16
	Rate per Metre				7566.22
	Say				7566.00

3.9.2 315 A 25KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1560	315 A TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	10.00	5741.00	57410.00
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	33.00	64.02
	Total cost of materials				57474.02
	Cartage @ 1 % of A1				574.74
	LABOUR				
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	0.75	612.00	459.00
1007	Khallasi	day	2.75	553.00	1520.75
	TOTAL				61374.51
	Add 12% GST (MF = 0.1405)				8623.12
	TOTAL				69997.63
	OVERHEADS & PROFIT @ 15 %				10499.64
	Cost for 10 Metre				80497.27
	Rate per Metre				8049.73
	Say				8050.00

3.9.3 400 A 30KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1561	400 A TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	10.00	6379.00	63790.00
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	33.00	64.02
Total cost of materials					63854.02
Cartage @ 1 % of A1					638.54
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.00	553.00	1659.00
TOTAL					68109.56
Add 12% GST (MF = 0.1405)					9569.39
TOTAL					77678.95
OVERHEADS & PROFIT @ 15 %					11651.84
Cost for 10 Metre					89330.79
Rate per Metre					8933.08
Say					8933.00

3.9.4 500 A 35KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1562	500 A TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	10.00	7381.00	73810.00
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	33.00	64.02
Total cost of materials					73874.02
Cartage @ 1 % of A1					738.74
LABOUR					
1001	Wireman	day	2.25	673.00	1514.25
1010	Mason, Grade 2	day	1.00	612.00	612.00

1007	Khallasi	day	3.25	553.00	1797.25
	TOTAL				78536.26
	Add 12% GST (MF = 0.1405)				11034.34
	TOTAL				89570.60
	OVERHEADS & PROFIT @ 15 %				13435.59
	Cost for 10 Metre				103006.19
	Rate per Metre				10300.62
	Say				10301.00

3.9.5 630 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1563	630 A TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	10.00	8748.00	87480.00
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	33.00	64.02
	Total cost of materials				87544.02
	Cartage @ 1 % of A1				875.44
	LABOUR				
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
	TOTAL				92649.46
	Add 12% GST (MF = 0.1405)				13017.25
	TOTAL				105666.71
	OVERHEADS & PROFIT @ 15 %				15850.01
	Cost for 10 Metre				121516.72
	Rate per Metre				12151.67
	Say				12152.00

3.9.6 800 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1564	800 A TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	10.00	11391.00	113910.00

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	33.00	64.02
	Total cost of materials				113974.02
	Cartage @ 1 % of A1				1139.74
	LABOUR				
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
	TOTAL				119343.76
	Add 12% GST (MF = 0.1405)				16767.80
	TOTAL				136111.56
	OVERHEADS & PROFIT @ 15 %				20416.73
	Cost for 10 Metre				156528.29
	Rate per Metre				15652.83
	Say				15653.00

3.9.7 1000 A 50KA ISC for 1 sec Details of cost for 10 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1565	1000 A TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	10.00	13213.00	132130.00
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	33.00	64.02
	Total cost of materials				132194.02
	Cartage @ 1 % of A1				1321.94
	LABOUR				
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
	TOTAL				137745.96
	Add 12% GST (MF = 0.1405)				19353.31
	TOTAL				157099.27
	OVERHEADS & PROFIT @ 15 %				23564.89
	Cost for 10 Metre				180664.16
	Rate per Metre				18066.42
	Say				18066.00

3.9.8 1250 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1566	1250 A TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	10.00	15491.00	154910.00
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	33.00	64.02
Total cost of materials					154974.02
Cartage @ 1 % of A1					1549.74
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
TOTAL					160753.76
Add 12% GST (MF = 0.1405)					22585.90
TOTAL					183339.66
OVERHEADS & PROFIT @ 15 %					27500.95
Cost for 10 Metre					210840.61
Rate per Metre					21084.06
Say					21084.00

3.10 DELETED

3.11 Supplying, installation, testing & commissioning 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 15KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1567	200 A TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	4040.00	4040.00

Total cost of materials					4040.00
Cartage @ 1 % of A1					40.40
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					4203.00
Add 12% GST (MF = 0.1405)					590.52
TOTAL					4793.52
OVERHEADS & PROFIT @ 15 %					719.03
TOTAL					5512.55
Rate per Each					5512.55
Say					5513.00

3.11.2 315 A 25KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1568	315 A TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	4210.00	4210.00
Total cost of materials					4210.00
Cartage @ 1 % of A1					42.10
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					4374.70
Add 12% GST (MF = 0.1405)					614.65
TOTAL					4989.35
OVERHEADS & PROFIT @ 15 %					748.40
TOTAL					5737.75
Rate per Each					5737.75
Say					5738.00

3.11.3 400 A 30KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1569	400 A TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	5358.00	5358.00

Total cost of materials					5358.00
Cartage @ 1 % of A1					53.58
LABOUR					
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
TOTAL					5570.96
Add 12% GST (MF = 0.1405)					782.72
TOTAL					6353.68
OVERHEADS & PROFIT @ 15 %					953.05
TOTAL					7306.73
Rate per Each					7306.73
Say					7307.00

3.11.4 500 A 35KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1570	500 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	5613.00	5613.00
Total cost of materials					5613.00
Cartage @ 1 % of A1					56.13
LABOUR					
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
TOTAL					5828.51
Add 12% GST (MF = 0.1405)					818.91
TOTAL					6647.42
OVERHEADS & PROFIT @ 15 %					997.11
TOTAL					7644.53
Rate per Each					7644.53
Say					7645.00

3.11.5 630 A 50KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1571	630 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	6847.00	6847.00

Total cost of materials					6847.00
Cartage @ 1 % of A1					68.47
LABOUR					
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
TOTAL					7123.89
Add 12% GST (MF = 0.1405)					1000.91
TOTAL					8124.80
OVERHEADS & PROFIT @ 15 %					1218.72
TOTAL					9343.52
Rate per Each					9343.52
Say					9344.00

3.11.6 800 A 50KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1572	800 A TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	8110.00	8110.00
Total cost of materials					8110.00
Cartage @ 1 % of A1					81.10
LABOUR					
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
TOTAL					8399.52
Add 12% GST (MF = 0.1405)					1180.13
TOTAL					9579.65
OVERHEADS & PROFIT @ 15 %					1436.95
TOTAL					11016.60
Rate per Each					11016.60
Say					11017.00

3.11.7 1000 A 50KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1573	1000 A TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	9100.00	9100.00

Total cost of materials					9100.00
Cartage @ 1 % of A1					91.00
LABOUR					
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
TOTAL					9399.42
Add 12% GST (MF = 0.1405)					1320.62
TOTAL					10720.04
OVERHEADS & PROFIT @ 15 %					1608.01
TOTAL					12328.05
Rate per Each					12328.05
Say					12328.00

3.11.8 1200 A 50KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1574	1250 A TPN, End Feed Unit for compact rising mains including all accessories	each	1.00	9611.00	9611.00
Total cost of materials					9611.00
Cartage @ 1 % of A1					96.11
LABOUR					
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
TOTAL					9915.53
Add 12% GST (MF = 0.1405)					1393.13
TOTAL					11308.66
OVERHEADS & PROFIT @ 15 %					1696.30
TOTAL					13004.96
Rate per Each					13004.96
Say					13005.00

3.12 Supplying, installation, testing & commissioning 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 15KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1575	125 A TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	4678.00	4678.00
	Total cost of materials				4678.00
	Cartage @ 1 % of A1				46.78
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				4847.38
	Add 12% GST (MF = 0.1405)				681.06
	TOTAL				5528.44
	OVERHEADS & PROFIT @ 15 %				829.27
	TOTAL				6357.71
	Rate per Each				6357.71
	Say				6358.00

3.12.2 200 A 25KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1576	200 A. TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	5954.00	5954.00
	Total cost of materials				5954.00
	Cartage @ 1 % of A1				59.54
LABOUR					
1001	Wireman	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				6136.14
	Add 12% GST (MF = 0.1405)				862.13
	TOTAL				6998.27
	OVERHEADS & PROFIT @ 15 %				1049.74
	TOTAL				8048.01
	Rate per Each				8048.01
	Say				8048.00

3.12.3 250 A 30KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1577	315 A TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	7655.00	7655.00
	Total cost of materials				7655.00
	Cartage @ 1 % of A1				76.55
	LABOUR				
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				7890.93
	Add 12% GST (MF = 0.1405)				1108.68
	TOTAL				8999.61
	OVERHEADS & PROFIT @ 15 %				1349.94
	TOTAL				10349.55
	Rate per Each				10349.55
	Say				10350.00

3.12.4 400 A 35KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1578	400 A TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	7655.00	7655.00
	Total cost of materials				7655.00
	Cartage @ 1 % of A1				76.55
	LABOUR				
1001	Wireman	day	0.13	673.00	87.49
1007	Khallasi	day	0.13	553.00	71.89
	TOTAL				7890.93
	Add 12% GST (MF = 0.1405)				1108.68
	TOTAL				8999.61
	OVERHEADS & PROFIT @ 15 %				1349.94
	TOTAL				10349.55
	Rate per Each				10349.55
	Say				10350.00

3.12.5 500 A 50KA ISC for 1 sec**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1579	500 A TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	11057.00	11057.00
	Total cost of materials				11057.00
	Cartage @ 1 % of A1				110.57
LABOUR					
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
	TOTAL				11375.99
	Add 12% GST (MF = 0.1405)				1598.33
	TOTAL				12974.32
	OVERHEADS & PROFIT @ 15 %				1946.15
	TOTAL				14920.47
	Rate per Each				14920.47
	Say				14920.00

3.12**3.12.6 630 A 50KA ISC for 1 sec****Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1580	630 A TPN, TAP OFF Box for compact rising mains including all accessories	each	1.00	11056.00	11056.00
	Total cost of materials				11056.00
	Cartage @ 1 % of A1				110.56
LABOUR					
1001	Wireman	day	0.17	673.00	114.41
1007	Khallasi	day	0.17	553.00	94.01
	TOTAL				11374.98
	Add 12% GST (MF = 0.1405)				1598.18
	TOTAL				12973.16
	OVERHEADS & PROFIT @ 15 %				1945.97
	TOTAL				14919.13
	Rate per Each				14919.13
	Say				14919.00

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 25KA ISC for 1 sec

Details of cost for 10 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1581		metre	10.00	8611.00	86110.00
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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				86566.02
	Cartage @ 1 % of A1				865.66
	LABOUR				
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
	TOTAL				91661.68
	Add 12% GST (MF = 0.1405)				12878.47
	TOTAL				104540.15
	OVERHEADS & PROFIT @ 15 %				15681.02
	Cost for 10 Metre				120221.17
	Rate per Metre				12022.12
	Say				12022.00

3.13.2 500 A 30KA ISC for 1 sec

Details of cost for 10 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1582	500 A 30KA ISC for 1 sec Sandwich Type Bus Trunking for use on 3 phase 4 wire 415 volts,	metre	10.00	9226.00	92260.00

	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				
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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				92716.02
	Cartage @ 1 % of A1				927.16
	LABOUR				
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
	TOTAL				97873.18
	Add 12% GST (MF = 0.1405)				13751.18
	TOTAL				111624.36
	OVERHEADS & PROFIT @ 15 %				16743.65
	Cost for 10 Metre				128368.01
	Rate per Metre				12836.80
	Say				12837.00

3.13.3 630 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1583	630 A 50KA ISC 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	metre	10.00	9978.00	99780.00
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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				100236.02
	Cartage @ 1 % of A1				1002.36

LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
TOTAL					105468.38
Add 12% GST (MF = 0.1405)					14818.31
TOTAL					120286.69
OVERHEADS & PROFIT @ 15 %					18043.00
Cost for 10 Metre					138329.69
Rate per Metre					13832.97
Say					13833.00

3.13.4 800 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	10.00	11277.00	112770.00
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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
Total cost of materials					113226.02
Cartage @ 1 % of A1					1132.26
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
TOTAL					118588.28
Add 12% GST (MF = 0.1405)					16661.65
TOTAL					135249.93
OVERHEADS & PROFIT @ 15 %					20287.49
Cost for 10 Metre					155537.42
Rate per Metre					15553.74
Say					15554.00

3.13.5 1000 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1585	1000 A 50KA ISC 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	metre	10.00	12651.00	126510.00
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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
Total cost of materials					126966.02
Cartage @ 1 % of A1					1269.66
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
TOTAL					132465.68
Add 12% GST (MF = 0.1405)					18611.43
TOTAL					151077.11
OVERHEADS & PROFIT @ 15 %					22661.57
Cost for 10 Metre					173738.68
Rate per Metre					17373.87
Say					17374.00

3.13.6 1250 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	10.00	14147.00	141470.00

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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				141926.02
	Cartage @ 1 % of A1				1419.26
	LABOUR				
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
	TOTAL				147575.28
	Add 12% GST (MF = 0.1405)				20734.33
	TOTAL				168309.61
	OVERHEADS & PROFIT @ 15 %				25246.44
	Cost for 10 Metre				193556.05
	Rate per Metre				19355.60
	Say				19356.00

3.13.7 1600 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	metre	10.00	17223.00	172230.00
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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				172686.02
	Cartage @ 1 % of A1				1726.86
	LABOUR				
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
	TOTAL				178642.88
	Add 12% GST (MF = 0.1405)				25099.32
	TOTAL				203742.20
	OVERHEADS & PROFIT @ 15 %				30561.33
	Cost for 10 Metre				234303.53
	Rate per Metre				23430.35
	Say				23430.00

3.13.8 2000 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	metre	10.00	20503.00	205030.00
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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
Total cost of materials					205486.02
Cartage @ 1 % of A1					2054.86
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
TOTAL					211770.88
Add 12% GST (MF = 0.1405)					29753.81
TOTAL					241524.69
OVERHEADS & PROFIT @ 15 %					36228.70
Cost for 10 Metre					277753.39
Rate per Metre					27775.34
Say					27775.00

3.13.9 2500 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1589	2500 A 50KA ISC 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	metre	10.00	26476.00	264760.00

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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
Total cost of materials					265216.02
Cartage @ 1 % of A1					2652.16
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
TOTAL					272098.18
Add 12% GST (MF = 0.1405)					38229.79
TOTAL					310327.97
OVERHEADS & PROFIT @ 15 %					46549.20
Cost for 10 Metre					356877.17
Rate per Metre					35687.72
Say					35688.00

3.13.10 3200 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1590	3200 A 50KA ISC 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	metre	10.00	29251.00	292510.00
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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
Total cost of materials					292966.02
Cartage @ 1 % of A1					2929.66
LABOUR					
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00

1007	Khallasi	day	3.50	553.00	1935.50
	TOTAL				300125.68
	Add 12% GST (MF = 0.1405)				42167.66
	TOTAL				342293.34
	OVERHEADS & PROFIT @ 15 %				51344.00
	Cost for 10 Metre				393637.34
	Rate per Metre				39363.73
	Say				39364.00

3.13.11 4000 A 50KA ISC for 1 sec**Details of cost for 10 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
1591	4000 A 50KA ISC 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	metre	10.00	51027.00	510270.00
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	33.00	64.02
2802	MS Suspender 8 mm dia 0.75m long	each	14.00	28.00	392.00
	Total cost of materials				510726.02
	Cartage @ 1 % of A1				5107.26
	LABOUR				
1001	Wireman	day	2.50	673.00	1682.50
1010	Mason, Grade 2	day	1.00	612.00	612.00
1007	Khallasi	day	3.50	553.00	1935.50
	TOTAL				520063.28
	Add 12% GST (MF = 0.1405)				73068.89
	TOTAL				593132.17
	OVERHEADS & PROFIT @ 15 %				88969.83
	Cost for 10 Metre				682102.00
	Rate per Metre				68210.20
	Say				68210.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2701	MS perforated cable tray painted with powder coating 100 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	144.00	4536.00
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	33.00	109.89
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
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	5.00	100.00
Total cost of materials					6155.89
Cartage @ 1 % of A1					61.56
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					10877.45
Add 12% GST (MF = 0.1405)					1528.28
TOTAL					12405.73
OVERHEADS & PROFIT @ 15 %					1860.86
Cost for 30 Metre					14266.59
Rate per Metre					475.55
Say					476.00

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

Details of cost for 30 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2702	MS perforated cable tray painted with powder coating 150 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	180.00	5670.00
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 0.2m = 4 @ 1.11kg/m = 4.44kg	kg	4.44	33.00	146.52
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
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	5.00	100.00
Total cost of materials					7407.52
Cartage @ 1 % of A1					74.08
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					12141.60
Add 12% GST (MF = 0.1405)					1705.89
TOTAL					13847.49
OVERHEADS & PROFIT @ 15 %					2077.12
Cost for 30 Metre					15924.61
Rate per Metre					530.82
Say					531.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2703	MS perforated cable tray painted with powder coating 225 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	226.00	7119.00

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 0.25m = 5 @ 1.11kg/m = 5.55kg	kg	5.55	33.00	183.15
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
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	5.00	100.00
Total cost of materials					8902.15
Cartage @ 1 % of A1					89.02
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					13651.17
Add 12% GST (MF = 0.1405)					1917.99
TOTAL					15569.16
OVERHEADS & PROFIT @ 15 %					2335.37
Cost for 30 Metre					17904.53
Rate per Metre					596.82
Say					597.00

4.1.4 300 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 30 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2704	MS perforated cable tray painted with powder coating 300 X 50 X 1.6 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	241.15	7596.23
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 0.35m = 7 @ 1.11kg/m = 7.77kg	kg	7.77	33.00	256.41
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
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	5.00	100.00
Total cost of materials					9452.64
Cartage @ 1 % of A1					94.53
LABOUR					

1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					14207.17
Add 12% GST (MF = 0.1405)					1996.11
TOTAL					16203.27
OVERHEADS & PROFIT @ 15 %					2430.49
Cost for 30 Metre					18633.76
Rate per Metre					621.13
Say					621.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2705	MS perforated cable tray painted with powder coating 375 X 50 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	257.75	8119.13
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	33.00	586.41
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
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	5.00	100.00
Total cost of materials					10341.54
Cartage @ 1 % of A1					103.42
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					15104.96
Add 12% GST (MF = 0.1405)					2122.25
TOTAL					17227.20
OVERHEADS & PROFIT @ 15 %					2584.08
Cost for 30 Metre					19811.28
Rate per Metre					660.38
Say					660.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2706	MS perforated cable tray painted with powder coating 450 X 50 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	274.30	8640.45
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 0.5m = 10 @ 2.09kg/m = 20.9kg	kg	20.90	33.00	689.70
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
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	5.00	100.00
Total cost of materials					11229.15
Cartage @ 1 % of A1					112.29
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					16001.44
Add 12% GST (MF = 0.1405)					2248.20
TOTAL					18249.64
OVERHEADS & PROFIT @ 15 %					2737.45
Cost for 30 Metre					20987.09
Rate per Metre					699.57
Say					700.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2707	MS perforated cable tray painted with powder coating 600 X 50 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	310.70	9787.05

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	33.00	896.61
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
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	5.00	100.00
Total cost of materials					12699.66
Cartage @ 1 % of A1					127.00
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					17486.66
Add 12% GST (MF = 0.1405)					2456.88
TOTAL					19943.53
OVERHEADS & PROFIT @ 15 %					2991.53
Cost for 30 Metre					22935.06
Rate per Metre					764.50
Say					765.00

4.1.8 300 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2708	MS perforated cable tray painted with powder coating 300 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	221.65	6981.98
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	33.00	256.41
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
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	5.00	100.00
Total cost of materials					8946.39
Cartage @ 1 % of A1					89.46

LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					13695.85
Add 12% GST (MF = 0.1405)					1924.27
TOTAL					15620.12
OVERHEADS & PROFIT @ 15 %					2343.02
Cost for 30 Metre					17963.14
Rate per Metre					598.77
Say					599.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2709	MS perforated cable tray painted with powder coating 375 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	260.15	8194.73
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	33.00	586.41
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
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	5.00	100.00
Total cost of materials					10543.14
Cartage @ 1 % of A1					105.43
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					15308.57
Add 12% GST (MF = 0.1405)					2150.85
TOTAL					17459.43
OVERHEADS & PROFIT @ 15 %					2618.91
Cost for 30 Metre					20078.34
Rate per Metre					669.28
Say					669.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2710	MS perforated cable tray painted with powder coating 450 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	299.20	9424.80
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	33.00	689.70
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
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	5.00	100.00
Total cost of materials					11849.50
Cartage @ 1 % of A1					118.50
LABOUR					
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00
TOTAL					17793.00
Add 12% GST (MF = 0.1405)					2499.92
TOTAL					20292.91
OVERHEADS & PROFIT @ 15 %					3043.94
Cost for 30 Metre					23336.85
Rate per Metre					777.90
Say					778.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2711	MS perforated cable tray painted with powder coating 600 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	377.85	11902.28
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	kg	27.17	33.00	896.61
	= 20 X 0.65m =13 @2.09kg/m = 27.17kg				
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
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	5.00	100.00
	Total cost of materials				14859.89
	Cartage @ 1 % of A1				148.60
	LABOUR				
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00
	TOTAL				20833.49
	Add 12% GST (MF = 0.1405)				2927.11
	TOTAL				23760.59
	OVERHEADS & PROFIT @ 15 %				3564.09
	Cost for 30 Metre				27324.68
	Rate per Metre				910.82
	Say				911.00

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

Details of cost for 30 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2712	MS perforated cable tray painted with powder coating 750 X 62.5 X 2 mm	metre	31.50	468.05	14743.58
	= 30 + 1.5 (Wastage @ 5%) = 31.5m				
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	kg	33.44	33.00	1103.52
	= 20 X 0.8m =16 @2.09kg/m = 33.44kg				
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
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	5.00	100.00
	Total cost of materials				17962.10
	Cartage @ 1 % of A1				179.62
	LABOUR				
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00

TOTAL	23966.72
Add 12% GST (MF = 0.1405)	3367.32
TOTAL	27334.05
OVERHEADS & PROFIT @ 15 %	4100.11
Cost for 30 Metre	31434.16
Rate per Metre	1047.81
Say	1048.00

4.1.13 900 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 30 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2713	MS perforated cable tray painted with powder coating 900 X 62.5 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	547.25	17238.38
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	33.00	1623.93
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
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	5.00	100.00
Total cost of materials					21493.31
Cartage @ 1 % of A1					214.93
LABOUR					
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00
TOTAL					27533.24
Add 12% GST (MF = 0.1405)					3868.42
TOTAL					31401.66
OVERHEADS & PROFIT @ 15 %					4710.25
Cost for 30 Metre					36111.91
Rate per Metre					1203.73
Say					1204.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2714	MS perforated cable tray painted with powder coating 600 X 75 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	442.00	13923.00
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	33.00	896.61
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
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	5.00	100.00
Total cost of materials					16880.61
Cartage @ 1 % of A1					168.81
LABOUR					
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00
TOTAL					22874.42
Add 12% GST (MF = 0.1405)					3213.86
TOTAL					26088.27
OVERHEADS & PROFIT @ 15 %					3913.24
Cost for 30 Metre					30001.51
Rate per Metre					1000.05
Say					1000.00

4.1.15 750 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 30 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2715	MS perforated cable tray painted with powder coating 750 X 75 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	490.10	15438.15
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	33.00	1103.52
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
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	5.00	100.00
Total cost of materials					18656.67
Cartage @ 1 % of A1					186.57
LABOUR					
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00
TOTAL					24668.24
Add 12% GST (MF = 0.1405)					3465.89
TOTAL					28134.12
OVERHEADS & PROFIT @ 15 %					4220.12
Cost for 30 Metre					32354.24
Rate per Metre					1078.47
Say					1078.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2716	MS perforated cable tray painted with powder coating 900 X 75 X 2 mm = 30 + 1.5 (Wastage @ 5%) = 31.5m	metre	31.50	533.00	16789.50
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	33.00	1623.93
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
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	5.00	100.00
Total cost of materials					21044.43
Cartage @ 1 % of A1					210.44
LABOUR					
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00

TOTAL	27079.87
Add 12% GST (MF = 0.1405)	3804.72
TOTAL	30884.60
OVERHEADS & PROFIT @ 15 %	4632.69
Cost for 30 Metre	35517.29
Rate per Metre	1183.91
Say	1184.00

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 (Rs.)
MATERIALS					
2733	MS perforated cable tray Bend 100 X 50 X 1.6 mm	each	1.00	397.00	397.00
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	33.00	5.61
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					494.61
Cartage @ 1 % of A1					4.95
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					616.06
Add 12% GST (MF = 0.1405)					86.56
TOTAL					702.61
OVERHEADS & PROFIT @ 15 %					105.39
TOTAL					808.00
Rate per Each					808.00
Say					808.00

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 (Rs.)
MATERIALS					
2734	MS perforated cable tray Bend 150 X 50 X 1.6 mm	each	1.00	491.00	491.00
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	33.00	7.26
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					599.26
Cartage @ 1 % of A1					5.99
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					721.75
Add 12% GST (MF = 0.1405)					101.41
TOTAL					823.16
OVERHEADS & PROFIT @ 15 %					123.47
TOTAL					946.63
Rate per Each					946.63
Say					947.00

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 (Rs.)
MATERIALS					
2735	MS perforated cable tray Bend 225 X 50 X 1.6 mm	each	1.00	636.00	636.00
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	33.00	9.24
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					747.24
Cartage @ 1 % of A1					7.47
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					871.21
Add 12% GST (MF = 0.1405)					122.41
TOTAL					993.62
OVERHEADS & PROFIT @ 15 %					149.04
TOTAL					1142.66
Rate per Each					1142.66
Say					1143.00

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 (Rs.)
MATERIALS					
2736	MS perforated cable tray Bend 300 X 50 X 1.6 mm	each	1.00	781.00	781.00
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	33.00	12.87
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					895.87
Cartage @ 1 % of A1					8.96
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60

1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				1021.33
	Add 12% GST (MF = 0.1405)				143.50
	TOTAL				1164.83
	OVERHEADS & PROFIT @ 15 %				174.72
	TOTAL				1339.55
	Rate per Each				1339.55
	Say				1340.00

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 (Rs.)
	MATERIALS				
2737	MS perforated cable tray Bend 375 X 50 X 2 mm	each	1.00	1128.00	1128.00
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	33.00	29.70
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
	Total cost of materials				1263.70
	Cartage @ 1 % of A1				12.64
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				1392.84
	Add 12% GST (MF = 0.1405)				195.69
	TOTAL				1588.53
	OVERHEADS & PROFIT @ 15 %				238.28
	TOTAL				1826.81
	Rate per Each				1826.81
	Say				1827.00

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 (Rs.)
MATERIALS					
2738	MS perforated cable tray Bend 450 X 50 X 2 mm	each	1.00	1304.00	1304.00
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	33.00	34.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					1461.65
Cartage @ 1 % of A1					14.62
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1592.77
Add 12% GST (MF = 0.1405)					223.78
TOTAL					1816.55
OVERHEADS & PROFIT @ 15 %					272.48
TOTAL					2089.03
Rate per Each					2089.03
Say					2089.00

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 (Rs.)
MATERIALS					
2739	MS perforated cable tray Bend 600 X 50 X 2 mm	each	1.00	1657.00	1657.00
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	33.00	44.88
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1833.48
Cartage @ 1 % of A1					18.33
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1968.31
Add 12% GST (MF = 0.1405)					276.55
TOTAL					2244.86
OVERHEADS & PROFIT @ 15 %					336.73
TOTAL					2581.59
Rate per Each					2581.59
Say					2582.00

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 (Rs.)
MATERIALS					
2740	MS perforated cable tray Bend 300 X 62.5 X 2 mm	each	1.00	1008.00	1008.00
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	33.00	12.87
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1130.47
Cartage @ 1 % of A1					11.30
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60

1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				1258.27
	Add 12% GST (MF = 0.1405)				176.79
	TOTAL				1435.06
	OVERHEADS & PROFIT @ 15 %				215.26
	TOTAL				1650.32
	Say				1650.00

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 (Rs.)
	MATERIALS				
2741	MS perforated cable tray Bend 375 X 62.5 X 2 mm	each	1.00	1184.00	1184.00
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	33.00	29.70
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				1329.30
	Cartage @ 1 % of A1				13.29
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				1459.09
	Add 12% GST (MF = 0.1405)				205.00
	TOTAL				1664.10
	OVERHEADS & PROFIT @ 15 %				249.61
	TOTAL				1913.71
	Rate per Each				1913.71
	Say				1914.00

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 (Rs.)
MATERIALS					
2742	MS perforated cable tray Bend 450 X 62.5 X 2 mm	each	1.00	1361.00	1361.00
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	33.00	34.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					1512.65
Cartage @ 1 % of A1					15.13
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					1714.18
Add 12% GST (MF = 0.1405)					240.84
TOTAL					1955.02
OVERHEADS & PROFIT @ 15 %					293.25
TOTAL					2248.27
Rate per Each					2248.27
Say					2248.00

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 (Rs.)
MATERIALS					
2743	MS perforated cable tray Bend 600 X 62.5 X 2 mm	each	1.00	1720.00	1720.00
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	33.00	44.88

2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1901.48
Cartage @ 1 % of A1					19.01
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					2106.89
Add 12% GST (MF = 0.1405)					296.02
TOTAL					2402.91
OVERHEADS & PROFIT @ 15 %					360.44
TOTAL					2763.35
Rate per Each					2763.35
Say					2763.00

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 (Rs.)
MATERIALS					
2744	MS perforated cable tray Bend 750 X 62.5 X 2 mm	each	1.00	2129.00	2129.00
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	33.00	55.11
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					2326.71
Cartage @ 1 % of A1					23.27
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96

1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2536.38
	Add 12% GST (MF = 0.1405)				356.36
	TOTAL				2892.74
	OVERHEADS & PROFIT @ 15 %				433.91
	TOTAL				3326.65
	Rate per Each				3326.65
	Say				3327.00

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 (Rs.)
	MATERIALS				
2745	MS perforated cable tray Bend 900 X 62.5 X 2 mm	each	1.00	2489.00	2489.00
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	33.00	81.18
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				2716.78
	Cartage @ 1 % of A1				27.17
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2930.35
	Add 12% GST (MF = 0.1405)				411.71
	TOTAL				3342.06
	OVERHEADS & PROFIT @ 15 %				501.31
	TOTAL				3843.37
	Say				3843.00

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 (Rs.)
MATERIALS					
2746	MS perforated cable tray Bend 600 X 75 X 2 mm	each	1.00	1770.00	1770.00
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	33.00	44.88
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1951.48
Cartage @ 1 % of A1					19.51
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					2157.39
Add 12% GST (MF = 0.1405)					303.11
TOTAL					2460.51
OVERHEADS & PROFIT @ 15 %					369.08
TOTAL					2829.59
Rate per Each					2829.59
Say					2830.00

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 (Rs.)
MATERIALS					
2747	MS perforated cable tray Bend 750 X 75 X 2 mm	each	1.00	2192.00	2192.00
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	33.00	55.11
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					2389.71
Cartage @ 1 % of A1					23.90
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					2600.01
Add 12% GST (MF = 0.1405)					365.30
TOTAL					2965.31
OVERHEADS & PROFIT @ 15 %					444.80
TOTAL					3410.11
Rate per Each					3410.11
Say					3410.00

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 (Rs.)
MATERIALS					
2748	MS perforated cable tray Bend 900 X 75 X 2 mm	each	1.00	2552.00	2552.00
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	33.00	81.18
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					2779.78
Cartage @ 1 % of A1					27.80
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48

TOTAL	2993.98
Add 12% GST (MF = 0.1405)	420.65
TOTAL	3414.63
OVERHEADS & PROFIT @ 15 %	512.19
TOTAL	3926.82
Rate per Each	3926.82
Say	3927.00

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 (Rs.)
MATERIALS					
2765	MS perforated cable tray Tee 100 X 50 X 1.6 mm	each	1.00	473.00	473.00
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	33.00	5.61
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					570.61
Cartage @ 1 % of A1					5.71
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					692.82
Add 12% GST (MF = 0.1405)					97.34
TOTAL					790.16
OVERHEADS & PROFIT @ 15 %					118.52
TOTAL					908.68
Rate per Each					908.68
Say					909.00

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 (Rs.)
MATERIALS					
2766	MS perforated cable tray Tee 150 X 50 X 1.6 mm	each	1.00	586.00	586.00
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	33.00	7.26
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					694.26
Cartage @ 1 % of A1					6.94
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					817.70
Add 12% GST (MF = 0.1405)					114.89
TOTAL					932.59
OVERHEADS & PROFIT @ 15 %					139.89
TOTAL					1072.48
Rate per Each					1072.48
Say					1072.00

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 (Rs.)
MATERIALS					
2767	MS perforated cable tray Tee 225 X 50 X 1.6 mm	each	1.00	762.00	762.00
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	33.00	9.24
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					873.24
Cartage @ 1 % of A1					8.73
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					998.47
Add 12% GST (MF = 0.1405)					140.29
TOTAL					1138.76
OVERHEADS & PROFIT @ 15 %					170.81
TOTAL					1309.57
Rate per Each					1309.57
Say					1310.00

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 (Rs.)
MATERIALS					
2768	MS perforated cable tray Tee 300 X 50 X 1.6 mm	each	1.00	939.00	939.00
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	33.00	12.87
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					1053.87
Cartage @ 1 % of A1					10.54
LABOUR					

1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1180.91
Add 12% GST (MF = 0.1405)					165.92
TOTAL					1346.83
OVERHEADS & PROFIT @ 15 %					202.02
TOTAL					1548.85
Rate per Each					1548.85
Say					1549.00

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 (Rs.)
MATERIALS					
2769	MS perforated cable tray Tee 375 X 50 X 2 mm	each	1.00	1348.00	1348.00
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	33.00	29.70
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					1483.70
Cartage @ 1 % of A1					14.84
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1615.04
Add 12% GST (MF = 0.1405)					226.91
TOTAL					1841.95
OVERHEADS & PROFIT @ 15 %					276.29
TOTAL					2118.24
Rate per Each					2118.24
Say					2118.00

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 (Rs.)
MATERIALS					
2770	MS perforated cable tray Tee 450 X 50 X 2 mm	each	1.00	1562.00	1562.00
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	33.00	34.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					1719.65
Cartage @ 1 % of A1					17.20
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1853.35
Add 12% GST (MF = 0.1405)					260.40
TOTAL					2113.74
OVERHEADS & PROFIT @ 15 %					317.06
TOTAL					2430.80
Rate per Each					2430.80
Say					2431.00

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 (Rs.)
MATERIALS					
2771	MS perforated cable tray Tee 600 X 50 X 2 mm	each	1.00	1985.00	1985.00
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	33.00	44.88
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				2161.48
	Cartage @ 1 % of A1				21.61
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				2299.59
	Add 12% GST (MF = 0.1405)				323.09
	TOTAL				2622.69
	OVERHEADS & PROFIT @ 15 %				393.40
	TOTAL				3016.09
	Rate per Each				3016.09
	Say				3016.00

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 (Rs.)
	MATERIALS				
2772	MS perforated cable tray Tee 300 X 62.5 X 2 mm	each	1.00	1210.00	1210.00
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	33.00	12.87
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				1332.47
	Cartage @ 1 % of A1				13.32
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				1462.29
	Add 12% GST (MF = 0.1405)				205.45
	TOTAL				1667.75
	OVERHEADS & PROFIT @ 15 %				250.16
	TOTAL				1917.91
	Rate per Each				1917.91
	Say				1918.00

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 (Rs.)
MATERIALS					
2773	MS perforated cable tray Tee 375 X 62.5 X 2 mm	each	1.00	1418.00	1418.00
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	33.00	29.70
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1563.30
Cartage @ 1 % of A1					15.63
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1695.43
Add 12% GST (MF = 0.1405)					238.21
TOTAL					1933.64
OVERHEADS & PROFIT @ 15 %					290.05
TOTAL					2223.69
Rate per Each					2223.69
Say					2224.00

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 (Rs.)
MATERIALS					
2774	MS perforated cable tray Tee 450 X 62.5 X 2 mm	each	1.00	1632.00	1632.00
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	33.00	34.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00

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	5.00	5.00
Total cost of materials					1783.65
Cartage @ 1 % of A1					17.84
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					1987.89
Add 12% GST (MF = 0.1405)					279.30
TOTAL					2267.18
OVERHEADS & PROFIT @ 15 %					340.08
TOTAL					2607.26
Rate per Each					2607.26
Say					2607.00

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 (Rs.)
MATERIALS					
2775	MS perforated cable tray Tee 600 X 62.5 X 2 mm	each	1.00	2061.00	2061.00
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	33.00	44.88
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					2242.48
Cartage @ 1 % of A1					22.42
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					2451.30
Add 12% GST (MF = 0.1405)					344.41
TOTAL					2795.71

OVERHEADS & PROFIT @ 15 %	419.36
TOTAL	3215.07
Rate per Each	3215.07
Say	3215.00

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 (Rs.)
MATERIALS					
2776	MS perforated cable tray Tee 750 X 62.5 X 2 mm	each	1.00	2552.00	2552.00
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	33.00	55.11
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					2749.71
Cartage @ 1 % of A1					27.50
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallas	day	0.16	553.00	88.48
TOTAL					2963.61
Add 12% GST (MF = 0.1405)					416.39
TOTAL					3379.99
OVERHEADS & PROFIT @ 15 %					507.00
TOTAL					3886.99
Rate per Each					3886.99
Say					3887.00

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 (Rs.)
MATERIALS					
2777	MS perforated cable tray Tee 900 X 62.5 X 2 mm	each	1.00	2986.00	2986.00
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	kg	2.46	33.00	81.18
	= 1 X 0.95m = 0.95 @ 2.59kg/m = 2.46kg				
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				3213.78
	Cartage @ 1 % of A1				32.14
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				3432.32
	Add 12% GST (MF = 0.1405)				482.24
	TOTAL				3914.56
	OVERHEADS & PROFIT @ 15 %				587.18
	TOTAL				4501.74
	Rate per Each				4501.74
	Say				4502.00

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 (Rs.)
	MATERIALS				
2778	MS perforated cable tray Tee 600 X 75 X 2 mm	each	1.00	2129.00	2129.00
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	kg	1.36	33.00	44.88
	= 1 X 0.65m = 0.65 @ 2.09kg/m = 1.36kg				
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				2310.48
	Cartage @ 1 % of A1				23.10
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96

1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2519.98
	Add 12% GST (MF = 0.1405)				354.06
	TOTAL				2874.04
	OVERHEADS & PROFIT @ 15 %				431.11
	TOTAL				3305.15
	Rate per Each				3305.15
	Say				3305.00

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 (Rs.)
	MATERIALS				
2779	MS perforated cable tray Tee 750 X 75 X 2 mm	each	1.00	2596.00	2596.00
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	33.00	55.11
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				2793.71
	Cartage @ 1 % of A1				27.94
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				3008.05
	Add 12% GST (MF = 0.1405)				422.63
	TOTAL				3430.68
	OVERHEADS & PROFIT @ 15 %				514.60
	TOTAL				3945.28
	Rate per Each				3945.28
	Say				3945.00

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 (Rs.)
MATERIALS					
2780	MS perforated cable tray Tee 900 X 75 X 2 mm	each	1.00	3057.00	3057.00
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	33.00	81.18
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					3284.78
Cartage @ 1 % of A1					32.85
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3504.03
Add 12% GST (MF = 0.1405)					492.32
TOTAL					3996.34
OVERHEADS & PROFIT @ 15 %					599.45
TOTAL					4595.79
Rate per Each					4595.79
Say					4596.00

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 (Rs.)
MATERIALS					
2781	MS perforated cable tray Cross member 100 X 50 X 1.6 mm	each	1.00	473.00	473.00

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	33.00	5.61
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					570.61
Cartage @ 1 % of A1					5.71
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					692.82
Add 12% GST (MF = 0.1405)					97.34
TOTAL					790.16
OVERHEADS & PROFIT @ 15 %					118.52
TOTAL					908.68
Rate per Each					908.68
Say					909.00

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 (Rs.)
MATERIALS					
2782	MS perforated cable tray Cross member 150 X 50 X 1.6 mm	each	1.00	586.00	586.00
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	33.00	7.26
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					694.26
Cartage @ 1 % of A1					6.94
LABOUR					

1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					817.70
Add 12% GST (MF = 0.1405)					114.89
TOTAL					932.59
OVERHEADS & PROFIT @ 15 %					139.89
TOTAL					1072.48
Rate per Each					1072.48
Say					1072.00

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 (Rs.)
MATERIALS					
2783	MS perforated cable tray Cross member 225 X 50 X 1.6 mm	each	1.00	762.00	762.00
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	33.00	9.24
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					873.24
Cartage @ 1 % of A1					8.73
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					998.47
Add 12% GST (MF = 0.1405)					140.29
TOTAL					1138.76
OVERHEADS & PROFIT @ 15 %					170.81
TOTAL					1309.57
Rate per Each					1309.57
Say					1310.00

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 (Rs.)
MATERIALS					
2784	MS perforated cable tray Cross member 300 X 50 X 1.6 mm	each	1.00	939.00	939.00
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	33.00	12.87
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					1053.87
Cartage @ 1 % of A1					10.54
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1180.91
Add 12% GST (MF = 0.1405)					165.92
TOTAL					1346.83
OVERHEADS & PROFIT @ 15 %					202.02
TOTAL					1548.85
Rate per Each					1548.85
Say					1549.00

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 (Rs.)
MATERIALS					
2785	MS perforated cable tray Cross member 375 X 50 X 2 mm	each	1.00	1348.00	1348.00
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	33.00	29.70
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					1483.70
Cartage @ 1 % of A1					14.84
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1615.04
Add 12% GST (MF = 0.1405)					226.91
TOTAL					1841.95
OVERHEADS & PROFIT @ 15 %					276.29
TOTAL					2118.24
Rate per Each					2118.24
Say					2118.00

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 (Rs.)
MATERIALS					
2786	MS perforated cable tray Cross member 450 X 50 X 2 mm	each	1.00	1562.00	1562.00
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	33.00	34.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					1719.65
Cartage @ 1 % of A1					17.20
LABOUR					

1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				1853.35
	Add 12% GST (MF = 0.1405)				260.40
	TOTAL				2113.74
	OVERHEADS & PROFIT @ 15 %				317.06
	TOTAL				2430.80
	Rate per Each				2430.80
	Say				2431.00

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 (Rs.)
	MATERIALS				
2787	MS perforated cable tray Cross member 600 X 50 X 2 mm	each	1.00	1985.00	1985.00
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 = 1.358kg	kg	1.358	33.00	44.81
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				2161.41
	Cartage @ 1 % of A1				21.61
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				2299.52
	Add 12% GST (MF = 0.1405)				323.08
	TOTAL				2622.61
	OVERHEADS & PROFIT @ 15 %				393.39
	TOTAL				3016.00
	Rate per Each				3016.00
	Say				3016.00

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 (Rs.)
MATERIALS					
2788	MS perforated cable tray Cross member 300 X 62.5 X 2 mm	each	1.00	1210.00	1210.00
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	33.00	12.87
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1332.47
Cartage @ 1 % of A1					13.32
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1462.29
Add 12% GST (MF = 0.1405)					205.45
TOTAL					1667.75
OVERHEADS & PROFIT @ 15 %					250.16
TOTAL					1917.91
Rate per Each					1917.91
Say					1918.00

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 (Rs.)
MATERIALS					
2789	MS perforated cable tray Cross member 375 X 62.5 X 2 mm	each	1.00	1418.00	1418.00
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	33.00	29.70
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1563.30
Cartage @ 1 % of A1					15.63
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1695.43
Add 12% GST (MF = 0.1405)					238.21
TOTAL					1933.64
OVERHEADS & PROFIT @ 15 %					290.05
TOTAL					2223.69
Rate per Each					2223.69
Say					2224.00

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 (Rs.)
MATERIALS					
2790	MS perforated cable tray Cross member 450 X 62.5 X 2 mm	each	1.00	1632.00	1632.00
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	33.00	34.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					1783.65
Cartage @ 1 % of A1					17.84
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96

1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				1987.89
	Add 12% GST (MF = 0.1405)				279.30
	TOTAL				2267.18
	OVERHEADS & PROFIT @ 15 %				340.08
	TOTAL				2607.26
	Rate per Each				2607.26
	Say				2607.00

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 (Rs.)
	MATERIALS				
2791	MS perforated cable tray Cross member 600 X 62.5 X 2 mm	each	1.00	2060.00	2060.00
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	33.00	44.88
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				2241.48
	Cartage @ 1 % of A1				22.41
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2450.29
	Add 12% GST (MF = 0.1405)				344.27
	TOTAL				2794.56
	OVERHEADS & PROFIT @ 15 %				419.18
	TOTAL				3213.74
	Rate per Each				3213.74
	Say				3214.00

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 (Rs.)
MATERIALS					
2792	MS perforated cable tray Cross member 750 X 62.5 X 2 mm	each	1.00	2552.00	2552.00
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	33.00	55.11
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					2749.71
Cartage @ 1 % of A1					27.50
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					2963.61
Add 12% GST (MF = 0.1405)					416.39
TOTAL					3379.99
OVERHEADS & PROFIT @ 15 %					507.00
TOTAL					3886.99
Rate per Each					3886.99
Say					3887.00

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 (Rs.)
MATERIALS					
2793	MS perforated cable tray Cross member 900 X 62.5 X 2 mm	each	1.00	2986.00	2986.00
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	kg	2.46	33.00	81.18
	= 1 X 0.95m = 0.95 @ 2.59kg/m = 2.46kg				
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				3213.78
	Cartage @ 1 % of A1				32.14
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				3432.32
	Add 12% GST (MF = 0.1405)				482.24
	TOTAL				3914.56
	OVERHEADS & PROFIT @ 15 %				587.18
	TOTAL				4501.74
	Rate per Each				4501.74
	Say				4502.00

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 (Rs.)
	MATERIALS				
2794	MS perforated cable tray Cross member 600 X 75 X 2 mm	each	1.00	2129.00	2129.00
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	33.00	44.88
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				2310.48
	Cartage @ 1 % of A1				23.10
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96

1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2519.98
	Add 12% GST (MF = 0.1405)				354.06
	TOTAL				2874.04
	OVERHEADS & PROFIT @ 15 %				431.11
	TOTAL				3305.15
	Rate per Each				3305.15
	Say				3305.00

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 (Rs.)
	MATERIALS				
2795	MS perforated cable tray Cross member 750 X 75 X 2 mm	each	1.00	2596.00	2596.00
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	33.00	55.11
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				2793.71
	Cartage @ 1 % of A1				27.94
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				3008.05
	Add 12% GST (MF = 0.1405)				422.63
	TOTAL				3430.68
	OVERHEADS & PROFIT @ 15 %				514.60
	TOTAL				3945.28
	Rate per Each				3945.28
	Say				3945.00

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 (Rs.)
MATERIALS					
2796	MS perforated cable tray Cross member 900 X 75 X 2 mm	each	1.00	3057.00	3057.00
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	33.00	81.18
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					3284.78
Cartage @ 1 % of A1					32.85
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3504.03
Add 12% GST (MF = 0.1405)					492.32
TOTAL					3996.34
OVERHEADS & PROFIT @ 15 %					599.45
TOTAL					4595.79
Rate per Each					4595.79
Say					4596.00

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 (Rs.)
MATERIALS					
2749	MS perforated cable tray Reducer 100 X 50 X 1.6 mm	each	1.00	451.00	451.00

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	33.00	5.61
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					548.61
Cartage @ 1 % of A1					5.49
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					670.60
Add 12% GST (MF = 0.1405)					94.22
TOTAL					764.81
OVERHEADS & PROFIT @ 15 %					114.72
TOTAL					879.53
Rate per Each					879.53
Say					880.00

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 (Rs.)
MATERIALS					
2750	MS perforated cable tray Reducer 150 X 50 X 1.6 mm	each	1.00	549.00	549.00
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm 150 X 50 X 1.6 mm	each	1.00	39.00	
2804	25 mm X 25 mm X 3 mm angle iron = 0.2 @ 1.11kg/m = 0.22kg	kg	0.22	33.00	7.26
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					657.26
Cartage @ 1 % of A1					6.57
LABOUR					

1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					780.33
Add 12% GST (MF = 0.1405)					109.64
TOTAL					889.97
OVERHEADS & PROFIT @ 15 %					133.50
TOTAL					1023.47
Rate per Each					1023.47
Say					1023.00

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 (Rs.)
MATERIALS					
2751	MS perforated cable tray Reducer 225 X 50 X 1.6 mm	each	1.00	727.00	727.00
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	33.00	9.24
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					841.84
Cartage @ 1 % of A1					8.42
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					966.76
Add 12% GST (MF = 0.1405)					135.83
TOTAL					1102.59
OVERHEADS & PROFIT @ 15 %					165.39
TOTAL					1267.98
Rate per Each					1267.98
Say					1268.00

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 (Rs.)
MATERIALS					
2752	MS perforated cable tray Reducer 300 X 50 X 1.6 mm	each	1.00	902.00	902.00
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	33.00	12.87
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1020.47
Cartage @ 1 % of A1					10.20
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1147.17
Add 12% GST (MF = 0.1405)					161.18
TOTAL					1308.35
OVERHEADS & PROFIT @ 15 %					196.25
TOTAL					1504.60
Rate per Each					1504.60
Say					1505.00

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 (Rs.)
MATERIALS					
2753	MS perforated cable tray Reducer 375 X 50 X 2 mm	each	1.00	1148.00	1148.00
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	33.00	29.70
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1287.30
Cartage @ 1 % of A1					12.87
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1416.67
Add 12% GST (MF = 0.1405)					199.04
TOTAL					1615.72
OVERHEADS & PROFIT @ 15 %					242.36
TOTAL					1858.08
Rate per Each					1858.08
Say					1858.00

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 (Rs.)
MATERIALS					
2754	MS perforated cable tray Reducer 450 X 50 X 2 mm	each	1.00	1342.00	1342.00
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	33.00	34.65
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1503.25
Cartage @ 1 % of A1					15.03
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60

1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				1634.78
	Add 12% GST (MF = 0.1405)				229.69
	TOTAL				1864.47
	OVERHEADS & PROFIT @ 15 %				279.67
	TOTAL				2144.14
	Rate per Each				2144.14
	Say				2144.00

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 (Rs.)
	MATERIALS				
2755	MS perforated cable tray Reducer 600 X 50 X 2 mm	each	1.00	1671.00	1671.00
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	33.00	44.88
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				1847.48
	Cartage @ 1 % of A1				18.47
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				1982.45
	Add 12% GST (MF = 0.1405)				278.53
	TOTAL				2260.99
	OVERHEADS & PROFIT @ 15 %				339.15
	TOTAL				2600.14
	Rate per Each				2600.14
	Say				2600.00

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 (Rs.)
MATERIALS					
2756	MS perforated cable tray Reducer 300 X 62.5 X 2 mm	each	1.00	1028.00	1028.00
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	33.00	12.87
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1150.47
Cartage @ 1 % of A1					11.50
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1278.47
Add 12% GST (MF = 0.1405)					179.63
TOTAL					1458.10
OVERHEADS & PROFIT @ 15 %					218.72
TOTAL					1676.82
Rate per Each					1676.82
Say					1677.00

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 (Rs.)
MATERIALS					
2757	MS perforated cable tray Reducer 375 X 62.5 X 2 mm	each	1.00	1210.00	1210.00
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	33.00	29.70

2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1355.30
Cartage @ 1 % of A1					13.55
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1485.35
Add 12% GST (MF = 0.1405)					208.69
TOTAL					1694.05
OVERHEADS & PROFIT @ 15 %					254.11
TOTAL					1948.16
Rate per Each					1948.16
Say					1948.00

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 (Rs.)
MATERIALS					
2758	MS perforated cable tray Reducer 450 X 62.5 X 2 mm	each	1.00	1393.00	1393.00
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	33.00	34.65
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
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	5.00	5.00
Total cost of materials					1544.65
Cartage @ 1 % of A1					15.45
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					1746.50

Add 12% GST (MF = 0.1405)	245.38
TOTAL	1991.88
OVERHEADS & PROFIT @ 15 %	298.78
TOTAL	2290.66
Rate per Each	2290.66
Say	2291.00

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 (Rs.)
MATERIALS					
2759	MS perforated cable tray Reducer 600 X 62.5 X 2 mm	each	1.00	1762.00	1762.00
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	33.00	44.88
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					1943.48
Cartage @ 1 % of A1					19.43
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					2149.31
Add 12% GST (MF = 0.1405)					301.98
TOTAL					2451.29
OVERHEADS & PROFIT @ 15 %					367.69
TOTAL					2818.98
Rate per Each					2818.98
Say					2819.00

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 (Rs.)
MATERIALS					
2760	MS perforated cable tray Reducer 750 X 62.5 X 2 mm	each	1.00	2093.00	2093.00
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	33.00	55.11
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					2290.71
Cartage @ 1 % of A1					22.91
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					2500.02
Add 12% GST (MF = 0.1405)					351.25
TOTAL					2851.27
OVERHEADS & PROFIT @ 15 %					427.69
TOTAL					3278.96
Rate per Each					3278.96
Say					3279.00

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 (Rs.)
MATERIALS					
2761	MS perforated cable tray Reducer 900 X 62.5 X 2 mm	each	1.00	2498.00	2498.00
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	33.00	81.18
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					2725.78
Cartage @ 1 % of A1					27.26
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					2939.44
Add 12% GST (MF = 0.1405)					412.99
TOTAL					3352.43
OVERHEADS & PROFIT @ 15 %					502.86
TOTAL					3855.29
Rate per Each					3855.29
Say					3855.00

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 (Rs.)
MATERIALS					
2762	MS perforated cable tray Reducer 600 X 75 X 2 mm	each	1.00	1822.00	1822.00
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	33.00	44.88
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					2003.48
Cartage @ 1 % of A1					20.03
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96

1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2209.91
	Add 12% GST (MF = 0.1405)				310.49
	TOTAL				2520.41
	OVERHEADS & PROFIT @ 15 %				378.06
	TOTAL				2898.47
	Rate per Each				2898.47
	Say				2898.00

4.5.15 750 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 1 No

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2763	MS perforated cable tray Reducer 750 X 75 X 2 mm	each	1.00	2145.00	2145.00
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	33.00	55.11
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
	Total cost of materials				2342.71
	Cartage @ 1 % of A1				23.43
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2552.54
	Add 12% GST (MF = 0.1405)				358.63
	TOTAL				2911.17
	OVERHEADS & PROFIT @ 15 %				436.68
	TOTAL				3347.85
	Rate per Each				3347.85
	Say				3348.00

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 (Rs.)
MATERIALS					
2764	MS perforated cable tray Reducer 900 X 75 X 2 mm	each	1.00	2558.00	2558.00
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	33.00	81.18
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
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	5.00	5.00
Total cost of materials					2785.78
Cartage @ 1 % of A1					27.86
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3000.04
Add 12% GST (MF = 0.1405)					421.51
TOTAL					3421.54
OVERHEADS & PROFIT @ 15 %					513.23
TOTAL					3934.77
Rate per Each					3934.77
Say					3935.00

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 metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3701	Perforated cable tray Hot Dipped Galvanised Iron 100mm X 50mm X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	239.00	7528.50

3717	Perforated cable tray connector Hot Dipped Galvanised Iron 100mm X 50mm X 1.6 mm	each	9.00	30.00	270.00
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	41.00	136.53
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	20.00	800.00
Total cost of materials					8955.03
Cartage @ 1 %					89.55
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					13704.58
Add 12% GST (MF = 0.1405)					1925.49
TOTAL					15630.07
Add 15 % Over Head & Contractor Profit					2344.51
Cost for 30 Metre					17974.58
Rate per Metre					599.15
Say					599.00

4.6.2 150 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 30 metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3702	Perforated cable tray Hot Dipped Galvanised Iron 150 X 50 X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	268.00	8442.00
3718	Perforated cable tray Connector Hot Dipped Galvanised Iron 150 X 50 X 1.6 mm	each	9.00	36.00	324.00
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	41.00	182.04
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	20.00	800.00
Total cost of materials					9968.04

	Cartage @ 1 %				99.68
	LABOUR				
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
	TOTAL				14727.72
	Add 12% GST (MF = 0.1405)				2069.24
	TOTAL				16796.97
	Add 15 % Over Head & Contractor Profit				2519.54
	Cost for 30 Metre				19316.51
	Rate per Metre				643.88
	Say				644.00

4.6.3 225 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 30 metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3703	perforated cable tray Hot Dipped Galvanised iron 225 X 50 X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	386.10	12162.15
3719	perforated cable tray Connector Hot Dipped Galvanised Iron 225 X 50 X 1.6 mm	each	9.00	38.00	342.00
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	41.00	227.55
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	20.00	800.00
	Total cost of materials				13751.70
	Cartage @ 1 %				137.52
	LABOUR				
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
	TOTAL				18549.22
	Add 12% GST (MF = 0.1405)				2606.16

TOTAL	21155.38
Add 15 % Over Head & Contractor Profit	3173.31
Cost for 30 Metre	24328.69
Rate per Metre	810.96
Say	811.00

4.6.4 300 mm width X 50 mm depth X 1.6 mm thickness

Details of cost for 30 metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3704	Perforated cable tray Hot Dipped Galvanised Iron 300 X 50 X 1.6 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	429.00	13513.50
3720	Perforated cable tray Connector Hot Dipped Galvanised Iron 300 X 50 X 1.6 mm	each	9.00	38.00	342.00
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	41.00	318.57
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	20.00	800.00
Total cost of materials					15194.07
Cartage @ 1 %					151.94
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					20006.01
Add 12% GST (MF = 0.1405)					2810.84
TOTAL					22816.86
Add 15 % Over Head & Contractor Profit					3422.53
Cost for 30 Metre					26239.38
Rate per Metre					874.65
Say					875.00

4.6.5 375 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3705	Perforated cable tray Hot Dipped Galvanised Iron 375 X 50 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	584.10	18399.15
3721	Perforated cable tray Connector Hot Dipped Galvanised Iron 375 X 50 X 2 mm	each	9.00	38.00	342.00
3805	35 mm X 55 mm X 4 mm Galvanised slotted/ angle iron/ channel = 20x0.425m = 8.5m @ 2.09 kg/m = 17.77kg	kg	17.77	41.00	728.57
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	20.00	800.00
Total cost of materials					20489.72
Cartage @ 1 %					204.90
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					25354.62
Add 12% GST (MF = 0.1405)					3562.32
TOTAL					28916.94
Add 15 % Over Head & Contractor Profit					4337.54
Cost for 30 Metre					33254.48
Rate per Metre					1108.48
Say					1108.00

4.6.6 450 mm width X 50 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3706	Perforated cable tray Hot Dipped Galvanised Iron 450 X 50 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	649.00	20443.50

3722	Perforated cable tray Connector Hot Dipped Galvanised Iron 450 X 50 X 2 mm	each	9.00	38.00	342.00
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	41.00	856.90
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	25.00	1000.00
Total cost of materials					22862.40
Cartage @ 1 %					228.62
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					27751.02
Add 12% GST (MF = 0.1405)					3899.02
TOTAL					31650.04
Add 15 % Over Head & Contractor Profit					4747.51
Cost for 30 Metre					36397.55
Rate per Metre					1213.25
Say					1213.00

4.6.7 600 mm width X 50 mm depth X 2.0 mm thickness

Details of cost for 30 metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3707	Perforated cable tray Hot Dipped Galvanised Iron 600 X 50 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	950.00	29925.00
3723	Perforated cable tray Connector Hot Dipped Galvanised Iron 600 X 50 X 2 mm	each	9.00	38.00	342.00
3805	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	41.00	1113.97
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	25.00	1000.00

Total cost of materials					32672.97
Cartage @ 1 %					326.73
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					37659.70
Add 12% GST (MF = 0.1405)					5291.19
TOTAL					42950.89
Add 15 % Over Head & Contractor Profit					6442.63
Cost for 30 Metre					49393.52
Rate per Metre					1646.45
Say					1646.00
4.6.8 300 mm width X 62.5 mm depth X 2.0 mm thickness					
Details of cost for 30 metres					
ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3708	Perforated cable tray Hot Dipped Galvanised Iron 300 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	578.00	18207.00
3724	Perforated cable tray Hot Dipped Galvanised Iron Connector 300 X 62.5 X 2 mm	each	9.00	38.00	342.00
3804	25 mm X 25 mm X 3 mm Galvannised slotted/ angle iron/ channel = 20x0.35m = 7.0m @ 1.11 kg/m = 7.77kg	kg	7.77	41.00	318.57
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	20.00	800.00
Total cost of materials					19959.57
Cartage @ 1 %					199.60
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					24819.17
Add 12% GST (MF = 0.1405)					3487.09
TOTAL					28306.26
Add 15 % Over Head & Contractor Profit					4245.94
Cost for 30 Metre					32552.20
Rate per Metre					1085.07
Say					1085.00

4.6.9 375 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3709	Perforated cable tray Hot Dipped Galvanised Iron 375 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	680.00	21420.00
3725	Perforated cable tray Connector Hot Dipped Galvanised Iron 375 X 62.5 X 2 mm	each	9.00	38.00	342.00
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	41.00	728.57
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	20.00	800.00
Total cost of materials					23582.57
Cartage @ 1 %					235.83
LABOUR					
1005	Fitter, Grade 2	day	2.00	612.00	1224.00
1010	Mason, Grade 2	day	2.00	612.00	1224.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					28478.40
Add 12% GST (MF = 0.1405)					4001.21
TOTAL					32479.61
Add 15 % Over Head & Contractor Profit					4871.94
Cost for 30 Metre					37351.55
Rate per Metre					1245.05
Say					1245.00

4.6.10 450 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3710	Perforated cable tray Hot Dipped Galvanised Iron 450 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	782.00	24633.00
3726	Perforated cable tray Connector Hot Dipped Galvanised Iron 450 X 62.5 X 2 mm	each	9.00	38.00	342.00

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	41.00	856.90
2855	Steel fastener 6 mm X 75 mm	each	40.00	5.50	220.00
3801	GI Suspender 6 mm dia 0.75m long	each	40.00	20.00	800.00
Total cost of materials					26851.90
Cartage @ 1 %					268.52
LABOUR					
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00
TOTAL					32945.42
Add 12% GST (MF = 0.1405)					4628.83
TOTAL					37574.25
Add 15 % Over Head & Contractor Profit					5636.14
Cost for 30 Metre					43210.39
Rate per Metre					1440.35
Say					1440.00

4.6.11 600 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3711	Perforated cable tray Hot Dipped Galvanised Iron 600 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	989.00	31153.50
3727	Perforated cable tray Connector Hot Dipped Galvanised Iron 600 X 62.5 X 2 mm	each	9.00	38.00	342.00
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	41.00	1113.97
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	25.00	1000.00
Total cost of materials					33901.47
Cartage @ 1 %					339.01
LABOUR					
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00

1007	Khallasi	day	5.00	553.00	2765.00
	TOTAL				40065.48
	Add 12% GST (MF = 0.1405)				5629.20
	TOTAL				45694.69
	Add 15 % Over Head & Contractor Profit				6854.20
	Cost for 30 Metre				52548.89
	Rate per Metre				1751.63
	Say				1752.00

4.6.12 750 mm width X 62.5 mm depth X 2.0 mm thickness

Details of cost for 30 metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3712	Perforated cable tray Hot Dipped Galvanised Iron 750 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	1216.00	38304.00
3728	Perforated cable tray Connector Hot Dipped Galvanised Iron 750 X 62.5 X 2 mm	each	9.00	38.00	342.00
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	41.00	1371.04
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	25.00	1000.00
	Total cost of materials				41309.04
	Cartage @ 1 %				413.09
	LABOUR				
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00
	TOTAL				47547.13
	Add 12% GST (MF = 0.1405)				6680.37
	TOTAL				54227.50
	Add 15 % Over Head & Contractor Profit				8134.13
	Cost for 30 Metre				62361.63
	Rate per Metre				2078.72
	Say				2079.00

4.6.13 900 mm width X 62.5 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3713	Perforated cable tray Hot Dipped Galvanised Iron 900 X 62.5 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	1424.00	44856.00
3729	Perforated cable tray Connector Hot Dipped Galvanised Iron 900 X 62.5 X 2 mm	each	9.00	38.00	342.00
3806	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	41.00	2017.61
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
3803	GI Suspender 10 mm dia 0.75m long	each	40.00	30.00	1200.00
	Total cost of materials				48707.61
	Cartage @ 1 %				487.08
LABOUR					
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00
	TOTAL				55019.69
	Add 12% GST (MF = 0.1405)				7730.27
	TOTAL				62749.95
	Add 15 % Over Head & Contractor Profit				9412.49
	Cost for 30 Metre				72162.44
	Rate per Metre				2405.41
	Say				2405.00

4.6.14 600 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3714	Perforated cable tray Hot Dipped Galvanised Iron 600 X 75 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	1020.00	32130.00
3727	Perforated cable tray Connector Hot Dipped Galvanised Iron 600 X 62.5 X 2 mm	each	9.00	38.00	342.00

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	41.00	1113.97
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	25.00	1000.00
Total cost of materials					34877.97
Cartage @ 1 %					348.78
LABOUR					
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00
TOTAL					41051.75
Add 12% GST (MF = 0.1405)					5767.77
TOTAL					46819.52
Add 15 % Over Head & Contractor Profit					7022.93
Cost for 30 Metre					53842.45
Rate per Metre					1794.75
Say					1795.00

4.6.15 750 mm width X 75 mm depth X 2.0 mm thickness

Details of cost for 30 metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3715	Perforated cable tray Hot Dipped Galvanised Iron 750 X 75 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	1224.00	38556.00
3728	Perforated cable tray Connector Hot Dipped Galvanised Iron 750 X 75X 2 mm	each	9.00	38.00	342.00
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	41.00	1371.04
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
3802	GI Suspender 8 mm dia 0.75m long	each	40.00	25.00	1000.00
Total cost of materials					41561.04
Cartage @ 1 %					415.61
LABOUR					
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00

1007	Khallasi	day	5.00	553.00	2765.00
	TOTAL				47801.65
	Add 12% GST (MF = 0.1405)				6716.13
	TOTAL				54517.78
	Add 15 % Over Head & Contractor Profit				8177.67
	Cost for 30 Metre				62695.45
	Rate per Metre				2089.85
	Say				2090.00

4.6.16 900 mm width X 75 mm depth X 2.0 mm thickness**Details of cost for 30 metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3716	Perforated cable tray Hot Dipped Galvanised Iron 900 X 75 X 2 mm = 30 + 1.5 (wastage @ 5%) = 31.5m	metre	31.50	1428.00	44982.00
3729	Perforated cable tray Connector Hot Dipped Galvanised Iron 900 X 75 X 2 mm	each	9.00	38.00	342.00
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	41.00	2017.61
2856	Steel fastener 8 mm X 75 mm	each	40.00	7.30	292.00
3803	GI Suspender 10 mm dia 0.75m long	each	40.00	30.00	1200.00
	Total cost of materials				48833.61
	Cartage @ 1 %				488.34
	LABOUR				
1005	Fitter, Grade 2	day	2.50	612.00	1530.00
1010	Mason, Grade 2	day	2.50	612.00	1530.00
1007	Khallasi	day	5.00	553.00	2765.00
	TOTAL				55146.95
	Add 12% GST (MF = 0.1405)				7748.15
	TOTAL				62895.09
	Add 15 % Over Head & Contractor Profit				9434.26
	Cost for 30 Metre				72329.36
	Rate per Metre				2410.98
	Say				2411.00

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 (Rs.)
MATERIAL					
3733	Hot Dipped G.I. Perforated cable tray Bend 100 X 50 X 1.6 mm	each	1.00	599.00	599.00
3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	30.00	30.00
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	41.00	6.97
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					686.97
Cartage @ 1 %					6.87
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					810.34
Add 12% GST (MF = 0.1405)					113.85
TOTAL					924.19
Add 15 % Over Head & Contractor Profit					138.63
TOTAL					1062.82
Rate for 1 No					1062.82
Say					1063.00

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 (Rs.)
MATERIAL					
3734	Hot Dipped G.I. Perforated cable tray Bend 150 X 50 X 1.6 mm	each	1.00	670.00	670.00
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	36.00	36.00

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	41.00	9.02
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					766.02
Cartage @ 1 %					7.66
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					890.18
Add 12% GST (MF = 0.1405)					125.07
TOTAL					1015.25
Add 15 % Over Head & Contractor Profit					152.29
TOTAL					1167.54
Rate for 1 No					1167.54
Say					1168.00

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 (Rs.)
MATERIAL					
3735	Hot Dipped G.I. Perforated cable tray Bend 225 X 50 X 1.6 mm	each	1.00	965.25	965.25
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	38.00	38.00
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	41.00	11.48
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1065.73
Cartage @ 1 %					10.66

LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1192.89
Add 12% GST (MF = 0.1405)					167.60
TOTAL					1360.49
Add 15 % Over Head & Contractor Profit					204.07
TOTAL					1564.56
Rate for 1 No					1564.56
Say					1565.00

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 (Rs.)
MATERIAL					
3736	Hot Dipped G.I. Perforated cable tray Bend ed 300 X 50 X 1.6 mm	each	1.00	1072.50	1072.50
3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	38.00	38.00
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	41.00	15.99
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1177.49
Cartage @ 1 %					11.77
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1305.76
Add 12% GST (MF = 0.1405)					183.46
TOTAL					1489.22
Add 15 % Over Head & Contractor Profit					223.38
TOTAL					1712.61
Rate for 1 No					1712.61
Say					1713.00

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 (Rs.)
MATERIAL					
3737	Hot Dipped G.I. Perforated cable tray Bend 375 X 50 X 2 mm	each	1.00	1460.25	1460.25
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	36.90
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1586.15
Cartage @ 1 %					15.86
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1718.51
Add 12% GST (MF = 0.1405)					241.45
TOTAL					1959.96
Add 15 % Over Head & Contractor Profit					293.99
TOTAL					2253.96
Rate for 1 No					2253.96
Say					2254.00

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 (Rs.)
MATERIAL					
3738	Hot Dipped G.I. Perforated cable tray Bend 450 X 50 X 2 mm	each	1.00	1622.50	1622.50
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	43.05

2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					1764.55
Cartage @ 1 %					17.65
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1898.70
Add 12% GST (MF = 0.1405)					266.77
TOTAL					2165.46
Add 15 % Over Head & Contractor Profit					324.82
TOTAL					2490.28
Rate for 1 No					2490.28
Say					2490.00

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 (Rs.)
MATERIAL					
3739	Hot Dipped G.I. Perforated cable tray Bend 600 X 50 X 2 mm	each	1.00	2375.00	2375.00
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					2533.36
Cartage @ 1 %					25.33
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					2675.19
Add 12% GST (MF = 0.1405)					375.86

TOTAL	3051.06
Add 15 % Over Head & Contractor Profit	457.66
TOTAL	3508.72
Rate for 1 No	3508.72
Say	3509.00

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 (Rs.)
MATERIAL					
3740	Hot Dipped G.I. Perforated cable tray Bend 300 X 62.5 X 2 mm	each	1.00	1445.00	1445.00
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	15.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1553.59
Cartage @ 1 %					15.54
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1685.63
Add 12% GST (MF = 0.1405)					236.83
TOTAL					1922.46
Add 15 % Over Head & Contractor Profit					288.37
TOTAL					2210.82
Rate for 1 No					2210.82
Say					2211.00

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 (Rs.)
MATERIAL					
3741	Hot Dipped G.I. Perforated cable tray Bend 375 X 62.5 X 2 mm	each	1.00	1701.00	1701.00

3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	36.90
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1830.50
Cartage @ 1 %					18.31
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1965.31
Add 12% GST (MF = 0.1405)					276.13
TOTAL					2241.43
Add 15 % Over Head & Contractor Profit					336.21
TOTAL					2577.64
Rate for 1 No					2577.64
Say					2578.00

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 (Rs.)
MATERIAL					
3742	Hot Dipped G.I. Perforated cable tray Bend 450 X 62.5 X 2 mm	each	1.00	1955.00	1955.00
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	43.05
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					2087.05
Cartage @ 1 %					20.87
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96

1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2294.32
	Add 12% GST (MF = 0.1405)				322.35
	TOTAL				2616.67
	Add 15 % Over Head & Contractor Profit				392.50
	TOTAL				3009.17
	Rate for 1 No				3009.17
	Say				3009.00

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 (Rs.)
	MATERIAL				
3743	Hot Dipped G.I. Perforated cable tray Bend 600 X 62.5 X 2 mm	each	1.00	2268.00	2268.00
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
	Total cost of materials				2426.36
	Cartage @ 1 %				24.26
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2637.02
	Add 12% GST (MF = 0.1405)				370.50
	TOTAL				3007.53
	Add 15 % Over Head & Contractor Profit				451.13
	TOTAL				3458.65
	Rate for 1 No				3458.65
	Say				3459.00

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 (Rs.)
MATERIAL					
3744	Hot Dipped G.I. Perforated cable tray Bend 750 X 62.5 X 2 mm	each	1.00	3037.00	3037.00
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	68.47
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3208.07
Cartage @ 1 %					32.08
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3426.55
Add 12% GST (MF = 0.1405)					481.43
TOTAL					3907.98
Add 15 % Over Head & Contractor Profit					586.20
TOTAL					4494.18
Rate for 1 No					4494.18
Say					4494.00

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 (Rs.)
MATERIAL					
3745	Hot Dipped G.I. Perforated cable tray Bend 900 X 62.5 X 2 mm	each	1.00	3553.00	3553.00
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	38.00	38.00

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	41.00	100.86
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3756.46
Cartage @ 1 %					37.56
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3980.42
Add 12% GST (MF = 0.1405)					559.25
TOTAL					4539.67
Add 15 % Over Head & Contractor Profit					680.95
TOTAL					5220.63
Rate for 1 No					5220.63
Say					5221.00

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 (Rs.)
MATERIAL					
3746	Hot Dipped G.I. Perforated cable tray Bend 600 X 75 X 2 mm	each	1.00	2550.00	2550.00
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					2708.36
Cartage @ 1 %					27.08
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96

1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2921.84
	Add 12% GST (MF = 0.1405)				410.52
	TOTAL				3332.36
	Add 15 % Over Head & Contractor Profit				499.85
	TOTAL				3832.22
	Rate for 1 No				3832.22
	Say				3832.00

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 (Rs.)
	MATERIAL				
3747	Hot Dipped G.I. Perforated cable tray Bend 750 X 75 X 2 mm	each	1.00	3060.00	3060.00
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	68.47
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
	Total cost of materials				3231.07
	Cartage @ 1 %				32.31
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				3449.78
	Add 12% GST (MF = 0.1405)				484.69
	TOTAL				3934.47
	Add 15 % Over Head & Contractor Profit				590.17
	TOTAL				4524.65
	Rate for 1 No				4524.65
	Say				4525.00

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 (Rs.)
MATERIAL					
3748	Hot Dipped G.I. Perforated cable tray Bend 900 X 75 X 2 mm	each	1.00	3570.00	3570.00
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	100.86
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3773.46
Cartage @ 1 %					37.73
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3997.59
Add 12% GST (MF = 0.1405)					561.66
TOTAL					4559.26
Add 15 % Over Head & Contractor Profit					683.89
TOTAL					5243.15
Rate for 1 No					5243.15
Say					5243.00

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 (Rs.)
MATERIAL					
3765	Hot Dipped G.I. Perforated cable tray TEE 100 X 50 X 1.6 mm	each	1.00	718.00	718.00

3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	30.00	30.00
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	41.00	6.97
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					805.97
Cartage @ 1 %					8.06
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					930.53
Add 12% GST (MF = 0.1405)					130.74
TOTAL					1061.27
Add 15 % Over Head & Contractor Profit					159.19
TOTAL					1220.46
Rate for 1 No					1220.46
Say					1220.00

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 (Rs.)
MATERIAL					
3766	Hot Dipped G.I. Perforated cable tray TEE 150 X 50 X 1.6 mm	each	1.00	750.00	750.00
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	36.00	36.00
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	41.00	9.02
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					846.02

	Cartage @ 1 %				8.46
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				970.98
	Add 12% GST (MF = 0.1405)				136.42
	TOTAL				1107.40
	Add 15 % Over Head & Contractor Profit				166.11
	TOTAL				1273.51
	Rate for 1 No				1273.51
	Say				1274.00

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 (Rs.)
	MATERIAL				
3767	Hot Dipped G.I. Perforated cable tray TEE 225 X 50 X 1.6 mm	each	1.00	1158.30	1158.30
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	38.00	38.00
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	41.00	11.48
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
	Total cost of materials				1258.78
	Cartage @ 1 %				12.59
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				1387.87
	Add 12% GST (MF = 0.1405)				195.00
	TOTAL				1582.86
	Add 15 % Over Head & Contractor Profit				237.43
	TOTAL				1820.29
	Rate for 1 No				1820.29
	Say				1820.00

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 (Rs.)
MATERIAL					
3768	Hot Dipped G.I. Perforated cable tray TEE 300 X 50 X 1.6 mm	each	1.00	1287.00	1287.00
3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	38.00	38.00
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	41.00	15.99
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1391.99
Cartage @ 1 %					13.92
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1522.41
Add 12% GST (MF = 0.1405)					213.90
TOTAL					1736.31
Add 15 % Over Head & Contractor Profit					260.45
TOTAL					1996.75
Rate for 1 No					1996.75
Say					1997.00

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 (Rs.)
MATERIAL					
3769	Hot Dipped G.I. Perforated cable tray TEE 375 X 50 X 2 mm	each	1.00	1752.30	1752.30
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	36.90

2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1878.20
Cartage @ 1 %					18.78
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					2013.48
Add 12% GST applicable on work contract,					282.89
by reversible method (multiplying factor 0.1405)					
TOTAL					2296.38
Add 15 % Over Head & Contractor Profit					344.46
TOTAL					2640.83
Rate for 1 No					2640.83
Say					2641.00

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 (Rs.)
MATERIAL					
3770	Hot Dipped G.I. Perforated cable tray TEE 450 X 50 X 2 mm	each	1.00	1947.00	1947.00
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	43.05
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					2089.05
Cartage @ 1 %					20.89
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30

TOTAL	2226.44
Add 12% GST applicable on work contract, by reversible method (multiplying factor 0.1405)	312.81
TOTAL	2539.26
Add 15 % Over Head & Contractor Profit	380.89
TOTAL	2920.14
Rate for 1 No	2920.14
Say	2920.00

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 (Rs.)
MATERIAL					
3771	Hot Dipped G.I. Perforated cable tray TEE 600 X 50 X 2 mm	each	1.00	2850.00	2850.00
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3008.36
Cartage @ 1 %					30.08
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					3154.94
Add 12% GST (MF = 0.1405)					443.27
TOTAL					3598.21
Add 15 % Over Head & Contractor Profit					539.73
TOTAL					4137.95
Rate for 1 No					4137.95
Say					4138.00

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 (Rs.)
MATERIAL					
3772	Hot Dipped G.I. Perforated cable tray TEE 300 X 62.5 X 2 mm	each	1.00	1734.00	1734.00
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	15.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1842.59
Cartage @ 1 %					18.43
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1977.52
Add 12% GST (MF = 0.1405)					277.84
TOTAL					2255.36
Add 15 % Over Head & Contractor Profit					338.30
TOTAL					2593.66
Rate for 1 No					2593.66
Say					2594.00

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 (Rs.)
MATERIAL					
3773	Hot Dipped G.I. Perforated cable tray TEE 375 X 62.5 X 2 mm	each	1.00	2079.00	2079.00
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	36.90

2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					2208.50
Cartage @ 1 %					22.09
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					2347.09
Add 12% GST (MF = 0.1405)					329.77
TOTAL					2676.85
Add 15 % Over Head & Contractor Profit					401.53
TOTAL					3078.38
Rate for 1 No					3078.38
Say					3078.00

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 (Rs.)
MATERIAL					
3774	Hot Dipped G.I. Perforated cable tray TEE 450 X 62.5 X 2 mm	each	1.00	2346.00	2346.00
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	43.05
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					2478.05
Cartage @ 1 %					24.78
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48

TOTAL	2689.23
Add 12% GST (MF = 0.1405)	377.84
TOTAL	3067.07
Add 15 % Over Head & Contractor Profit	460.06
TOTAL	3527.13
Rate for 1 No	3527.13
Say	3527.00

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 (Rs.)
MATERIAL					
3775	Hot Dipped G.I. Perforated cable tray TEE 600 X 62.5 X 2 mm	each	1.00	3024.00	3024.00
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3182.36
Cartage @ 1 %					31.82
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3400.58
Add 12% GST (MF = 0.1405)					477.78
TOTAL					3878.37
Add 15 % Over Head & Contractor Profit					581.75
TOTAL					4460.12
Rate for 1 No					4460.12
Say					4460.00

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 (Rs.)
MATERIAL					
3776	Hot Dipped G.I. Perforated cable tray TEE 750 X 62.5 X 2 mm	each	1.00	3641.00	3641.00
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	68.47
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3812.07
Cartage @ 1 %					38.12
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					4036.59
Add 12% GST (MF = 0.1405)					567.14
TOTAL					4603.73
Add 15 % Over Head & Contractor Profit					690.56
TOTAL					5294.29
Rate for 1 No					5294.29
Say					5294.00

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 (Rs.)
MATERIAL					
3777	Hot Dipped G.I. Perforated cable tray TEE 900 X 62.5 X 2 mm	each	1.00	4265.00	4265.00
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	100.86

2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					4468.46
Cartage @ 1 %					44.68
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					4699.54
Add 12% GST (MF = 0.1405)					660.29
TOTAL					5359.83
Add 15 % Over Head & Contractor Profit					803.97
TOTAL					6163.81
Rate for 1 No					6163.81
Say					6164.00

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 (Rs.)
MATERIAL					
3778	Hot Dipped G.I. Perforated cable tray TEE 600 X 75 X 2 mm	each	1.00	3060.00	3060.00
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3218.36
Cartage @ 1 %					32.18
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3436.94
Add 12% GST (MF = 0.1405)					482.89
TOTAL					3919.83

Add 15 % Over Head & Contractor Profit	587.98
TOTAL	4507.81
Rate for 1 No	4507.81
Say	4508.00

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 (Rs.)
MATERIAL					
3779	Hot Dipped G.I. Perforated cable tray TEE 750 X 75 X 2 mm	each	1.00	3672.00	3672.00
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	68.47
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3843.07
Cartage @ 1 %					38.43
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					4067.90
Add 12% GST (MF = 0.1405)					571.54
TOTAL					4639.44
Add 15 % Over Head & Contractor Profit					695.92
TOTAL					5335.36
Rate for 1 No					5335.36
Say					5335.00

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 (Rs.)
MATERIAL					
3780	Hot Dipped G.I. Perforated cable tray TEE 900 X 75 X 2 mm	each	1.00	4284.00	4284.00

3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	100.86
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					4487.46
Cartage @ 1 %					44.87
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					4718.73
Add 12% GST (MF = 0.1405)					662.98
TOTAL					5381.72
Add 15 % Over Head & Contractor Profit					807.26
TOTAL					6188.97
Rate for 1 No					6188.97
Say					6189.00

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 (Rs.)
MATERIAL					
3781	Hot Dipped G.I. Perforated cable tray Cross member 100 X 50 X 1.6 mm	each	1.00	718.00	718.00
3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	30.00	30.00
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	41.00	6.97
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					805.97

	Cartage @ 1 %				8.06
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				930.53
	Add 12% GST (MF = 0.1405)				130.74
	TOTAL				1061.27
	Add 15 % Over Head & Contractor Profit				159.19
	TOTAL				1220.46
	Rate for 1 No				1220.46
	Say				1220.00

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 (Rs.)
	MATERIAL				
3782	Hot Dipped G.I. Perforated cable tray Cross member 150 X 50 X 1.6 mm	each	1.00	750.00	750.00
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	36.00	36.00
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	41.00	9.02
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
	Total cost of materials				846.02
	Cartage @ 1 %				8.46
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				970.98
	Add 12% GST (MF = 0.1405)				136.42
	TOTAL				1107.40
	Add 15 % Over Head & Contractor Profit				166.11
	TOTAL				1273.51
	Rate for 1 No				1273.51
	Say				1274.00

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 (Rs.)
MATERIAL					
3783	Hot Dipped G.I. Perforated cable tray Cross member 225 X 50 X 1.6 mm	each	1.00	1172.00	1172.00
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	38.00	38.00
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	41.00	11.48
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1272.48
Cartage @ 1 %					12.72
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1401.70
Add 12% GST (MF = 0.1405)					196.94
TOTAL					1598.64
Add 15 % Over Head & Contractor Profit					239.80
TOTAL					1838.44
Rate for 1 No					1838.44
Say					1838.00

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 (Rs.)
MATERIAL					
3784	Hot Dipped G.I. Perforated cable tray Cross member 300 X 50 X 1.6 mm	each	1.00	1436.00	1436.00
3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	38.00	38.00
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	41.00	15.99

2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
	Total cost of materials				1540.99
	Cartage @ 1 %				15.41
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				1672.90
	Add 12% GST (MF = 0.1405)				235.04
	TOTAL				1907.94
	Add 15 % Over Head & Contractor Profit				286.19
	TOTAL				2194.13
	Rate for 1 No				2194.13
	Say				2194.00

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 (Rs.)
	MATERIAL				
3785	Hot Dipped G.I. Perforated cable tray Cross member 375 X 50 X 2 mm	each	1.00	1940.00	1940.00
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	36.90
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
	Total cost of materials				2065.90
	Cartage @ 1 %				20.66
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30

TOTAL	2203.06
Add 12% GST (MF = 0.1405)	309.53
TOTAL	2512.59
Add 15 % Over Head & Contractor Profit	376.89
TOTAL	2889.48
Rate for 1 No	2889.48
Say	2889.00

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 (Rs.)
MATERIAL					
3786	Hot Dipped G.I. Perforated cable tray Cross member 450 X 50 X 2 mm	each	1.00	2249.00	2249.00
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	38.00	38.00
3805	35 mm X 35 mm X 4 mm Galvannised slotted/kg angle iron/ channel = 1x0.5m = 0.50m @ 2.09 kg/m = 1.05 kg	1.05	41.00	43.05	
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					2391.05
Cartage @ 1 %					23.91
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					2531.46
Add 12% GST (MF = 0.1405)					355.67
TOTAL					2887.13
Add 15 % Over Head & Contractor Profit					433.07
TOTAL					3320.20
Rate for 1 No					3320.20
Say					3320.00

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 (Rs.)
MATERIAL					
3787	Hot Dipped G.I. Perforated cable tray Cross member 600 X 50 X 2 mm	each	1.00	2860.00	2860.00
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.68
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3018.28
Cartage @ 1 %					30.18
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					3164.96
Add 12% GST (MF = 0.1405)					444.68
TOTAL					3609.64
Add 15 % Over Head & Contractor Profit					541.45
TOTAL					4151.08
Rate for 1 No					4151.08
Say					4151.00

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 (Rs.)
MATERIAL					
3788	Hot Dipped G.I. Perforated cable tray Cross member 300 X 62.5 X 2 mm	each	1.00	1739.00	1739.00
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	38.00	38.00

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	41.00	15.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1847.59
Cartage @ 1 %					18.48
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1982.57
Add 12% GST (MF = 0.1405)					278.55
TOTAL					2261.12
Add 15 % Over Head & Contractor Profit					339.17
TOTAL					2600.28
Rate for 1 No					2600.28
Say					2600.00

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 (Rs.)
MATERIAL					
3789	Hot Dipped G.I. Perforated cable tray Cross member 375 X 62.5 X 2 mm	each	1.00	2041.00	2041.00
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	36.90
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					2170.50
Cartage @ 1 %					21.71
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60

1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				2308.71
	Add 12% GST (MF = 0.1405)				324.37
	TOTAL				2633.08
	Add 15 % Over Head & Contractor Profit				394.96
	TOTAL				3028.04
	Rate for 1 No				3028.04
	Say				3028.00

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 (Rs.)
	MATERIAL				
3790	Hot Dipped G.I. Perforated cable tray Cross member 450 X 62.5 X 2 mm	each	1.00	2350.00	2350.00
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	43.05
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
	Total cost of materials				2482.05
	Cartage @ 1 %				24.82
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				2693.27
	Add 12% GST (MF = 0.1405)				378.40
	TOTAL				3071.68
	Add 15 % Over Head & Contractor Profit				460.75
	TOTAL				3532.43
	Rate for 1 No				3532.43
	Say				3532.00

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 (Rs.)
MATERIAL					
3791	Hot Dipped G.I. Perforated cable tray Cross member 600 X 62.5 X 2 mm	each	1.00	2967.00	2967.00
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3125.36
Cartage @ 1 %					31.25
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallas	day	0.16	553.00	88.48
TOTAL					3343.01
Add 12% GST (MF = 0.1405)					469.69
TOTAL					3812.71
Add 15 % Over Head & Contractor Profit					571.91
TOTAL					4384.61
Rate for 1 No					4384.61
Say					4385.00

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 (Rs.)
MATERIAL					
3792	Hot Dipped G.I. Perforated cable tray Cross member 750 X 62.5 X 2 mm	each	1.00	3641.00	3641.00
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	68.47

2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3812.07
Cartage @ 1 %					38.12
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					4036.59
Add 12% GST (MF = 0.1405)					567.14
TOTAL					4603.73
Add 15 % Over Head & Contractor Profit					690.56
TOTAL					5294.29
Rate for 1 No					5294.29
Say					5294.00

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 (Rs.)
MATERIAL					
3793	Hot Dipped G.I. Perforated cable tray Cross member 900 X 62.5 X 2 mm	each	1.00	4265.00	4265.00
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	100.86
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					4468.46
Cartage @ 1 %					44.68
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					4699.54
Add 12% GST (MF = 0.1405)					660.29
TOTAL					5359.83

Add 15 % Over Head & Contractor Profit	803.97
TOTAL	6163.81
Rate for 1 No	6163.81
Say	6164.00

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 (Rs.)
MATERIAL					
3794	Hot Dipped G.I. Perforated cable tray Cross member 600 X 75 X 2 mm	each	1.00	3062.00	3062.00
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3220.36
Cartage @ 1 %					32.20
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3438.96
Add 12% GST (MF = 0.1405)					483.17
TOTAL					3922.14
Add 15 % Over Head & Contractor Profit					588.32
TOTAL					4510.46
Rate for 1 No					4510.46
Say					4510.00

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 (Rs.)
MATERIAL					
3795	Hot Dipped G.I. Perforated cable tray Cross member 750 X 75 X 2 mm	each	1.00	2620.00	2620.00

3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	68.47
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					2791.07
Cartage @ 1 %					27.91
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3005.38
Add 12% GST (MF = 0.1405)					422.26
TOTAL					3427.64
Add 15 % Over Head & Contractor Profit					514.15
TOTAL					3941.78
Rate for 1 No					3941.78
Say					3942.00

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 (Rs.)
MATERIAL					
3796	Hot Dipped G.I. Perforated cable tray Cross member 900 X 75 X 2 mm	each	1.00	3056.00	3056.00
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	100.86
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3259.46
Cartage @ 1 %					32.59

LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					3478.45
Add 12% GST (MF = 0.1405)					488.72
TOTAL					3967.18
Add 15 % Over Head & Contractor Profit					595.08
TOTAL					4562.25
Rate for 1 No					4562.25
Say					4562.00

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 (Rs.)
MATERIAL					
3749	Hot Dipped G.I. Perforated cable tray Reducer 100 X 50 X 1.6 mm	each	1.00	950.00	950.00
3717	Hot Dipped G.I. Perforated cable tray Connector 100 X 50 X 1.6 mm	each	1.00	30.00	30.00
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	41.00	6.97
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1037.97
Cartage @ 1 %					10.38
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30

TOTAL	1164.85
Add 12% GST (MF = 0.1405)	163.66
TOTAL	1328.51
Add 15 % Over Head & Contractor Profit	199.28
TOTAL	1527.79
Rate for 1 No	1527.79
Say	1528.00

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 (Rs.)
MATERIAL					
3750	Hot Dipped G.I. Perforated cable tray Reducer 150 X 50 X 1.6 mm	each	1.00	1131.00	1131.00
3718	Hot Dipped G.I. Perforated cable tray Connector 150 X 50 X 1.6 mm	each	1.00	36.00	36.00
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	41.00	9.02
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1227.02
Cartage @ 1 %					12.27
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1355.79
Add 12% GST (MF = 0.1405)					190.49
TOTAL					1546.28
Add 15 % Over Head & Contractor Profit					231.94
TOTAL					1778.22
Rate for 1 No					1778.22
Say					1778.00

4.10.3 225 mm width X 50 mm depth X 1.6 mm thickness**Details of cost for 1 No**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3751	Hot Dipped G.I. Perforated cable tray Reducer 225 X 50 X 1.6 mm	each	1.00	1473.00	1473.00
3719	Hot Dipped G.I. Perforated cable tray Connector 225 X 50 X 1.6 mm	each	1.00	38.00	38.00
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	41.00	11.48
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1577.08
Cartage @ 1 %					15.77
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1709.35
Add 12% GST (MF = 0.1405)					240.16
TOTAL					1949.51
Add 15 % Over Head & Contractor Profit					292.43
TOTAL					2241.94
Rate for 1 No					2241.94
Say					2242.00

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 (Rs.)
MATERIAL					
3752	Hot Dipped G.I. Perforated cable tray Reducer 300 X 50 X 1.6 mm	each	1.00	1752.00	1752.00

3720	Hot Dipped G.I. Perforated cable tray Connector 300 X 50 X 1.6 mm	each	1.00	38.00	38.00
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	41.00	15.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					1860.59
Cartage @ 1 %					18.61
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					1995.70
Add 12% GST (MF = 0.1405)					280.40
TOTAL					2276.09
Add 15 % Over Head & Contractor Profit					341.41
TOTAL					2617.50
Rate for 1 No					2617.50
Say					2618.00

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 (Rs.)
MATERIAL					
3753	Hot Dipped G.I. Perforated cable tray Reducer 375 X 50 X 2 mm	each	1.00	2159.00	2159.00
3721	Hot Dipped G.I. Perforated cable tray Connector 375 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	36.90
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					2288.50
Cartage @ 1 %					22.89
LABOUR					

1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					2427.89
Add 12% GST (MF = 0.1405)					341.12
TOTAL					2769.00
Add 15 % Over Head & Contractor Profit					415.35
TOTAL					3184.35
Rate for 1 No					3184.35
Say					3184.00

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 (Rs.)
MATERIAL					
3754	Hot Dipped G.I. Perforated cable tray Reducer 450 X 50 X 2 mm	each	1.00	2350.00	2350.00
3722	Hot Dipped G.I. Perforated cable tray Connector 450 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	43.05
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					2495.65
Cartage @ 1 %					24.96
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					2637.11
Add 12% GST (MF = 0.1405)					370.51
TOTAL					3007.62
Add 15 % Over Head & Contractor Profit					451.14
TOTAL					3458.76
Rate for 1 No					3458.76
Say					3459.00

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 (Rs.)
MATERIAL					
3755	Hot Dipped G.I. Perforated cable tray Reducer 600 X 50 X 2 mm	each	1.00	3344.00	3344.00
3723	Hot Dipped G.I. Perforated cable tray Connector 600 X 50 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3502.36
Cartage @ 1 %					35.02
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					3653.88
Add 12% GST (MF = 0.1405)					513.37
TOTAL					4167.25
Add 15 % Over Head & Contractor Profit					625.09
TOTAL					4792.34
Rate for 1 No					4792.34
Say					4792.00

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 (Rs.)
MATERIAL					
3756	Hot Dipped G.I. Perforated cable tray Reducer 300 X 62.5 X 2 mm	each	1.00	2153.00	2153.00
3724	Hot Dipped G.I. Perforated cable tray Connector 300 X 62.5 X 2 mm	each	1.00	38.00	38.00

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	41.00	15.99
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					2261.59
Cartage @ 1 %					22.62
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					2400.71
Add 12% GST (MF = 0.1405)					337.30
TOTAL					2738.01
Add 15 % Over Head & Contractor Profit					410.70
TOTAL					3148.71
Rate for 1 No					3148.71
Say					3149.00

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 (Rs.)
MATERIAL					
3757	Hot Dipped G.I. Perforated cable tray Reducer 375 X 62.5 X 2 mm	each	1.00	2534.00	2534.00
3725	Hot Dipped G.I. Perforated cable tray Connector 375 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	36.90
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
Total cost of materials					2663.50
Cartage @ 1 %					26.64
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60

1010	Mason, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				2806.64
	Add 12% GST (MF = 0.1405)				394.33
	TOTAL				3200.97
	Add 15 % Over Head & Contractor Profit				480.15
	TOTAL				3681.11
	Rate for 1 No				3681.11
	Say				3681.00

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 (Rs.)
	MATERIAL				
3758	Hot Dipped G.I. Perforated cable tray Reducer 450 X 62.5 X 2 mm	each	1.00	2996.50	2996.50
3726	Hot Dipped G.I. Perforated cable tray Connector 450 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	43.05
2855	Steel fastener 6 mm X 75 mm	each	2.00	5.50	11.00
3801	GI Suspender 6 mm dia 0.75m long	each	2.00	20.00	40.00
	Total cost of materials				3128.55
	Cartage @ 1 %				31.29
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				3346.24
	Add 12% GST (MF = 0.1405)				470.15
	TOTAL				3816.38
	Add 15 % Over Head & Contractor Profit				572.46
	TOTAL				4388.84
	Rate for 1 No				4388.84
	Say				4389.00

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 (Rs.)
MATERIAL					
3759	Hot Dipped G.I. Perforated cable tray Reducer 600 X 62.5 X 2 mm	each	1.00	3841.00	3841.00
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					3999.36
Cartage @ 1 %					39.99
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					4225.75
Add 12% GST (MF = 0.1405)					593.72
TOTAL					4819.47
Add 15 % Over Head & Contractor Profit					722.92
TOTAL					5542.39
Rate for 1 No					5542.39
Say					5542.00

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 (Rs.)
MATERIAL					
3760	Hot Dipped G.I. Perforated cable tray Reducer 750 X 62.5 X 2 mm	each	1.00	4144.00	4144.00
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	38.00	38.00

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	41.00	68.47
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					4315.07
Cartage @ 1 %					43.15
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					4544.62
Add 12% GST (MF = 0.1405)					638.52
TOTAL					5183.14
Add 15 % Over Head & Contractor Profit					777.47
TOTAL					5960.61
Rate for 1 No					5960.61
Say					5961.00

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 (Rs.)
MATERIAL					
3761	Hot Dipped G.I. Perforated cable tray Reducer 900 X 62.5 X 2 mm	each	1.00	4834.50	4834.50
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	100.86
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					5037.96
Cartage @ 1 %					50.38
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96

1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				5274.74
	Add 12% GST (MF = 0.1405)				741.10
	TOTAL				6015.84
	Add 15 % Over Head & Contractor Profit				902.38
	TOTAL				6918.22
	Rate for 1 No				6918.22
	Say				6918.00

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 (Rs.)
	MATERIAL				
3762	Hot Dipped G.I. Perforated cable tray Reducer 600 X 75 X 2 mm	each	1.00	3351.00	3351.00
3727	Hot Dipped G.I. Perforated cable tray Connector 600 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	55.76
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
	Total cost of materials				3509.36
	Cartage @ 1 %				35.09
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				3730.85
	Add 12% GST (MF = 0.1405)				524.18
	TOTAL				4255.04
	Add 15 % Over Head & Contractor Profit				638.26
	TOTAL				4893.29
	Rate for 1 No				4893.29
	Say				4893.00

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 (Rs.)
MATERIAL					
3763	Hot Dipped G.I. Perforated cable tray Reducerd 750 X 75 X 2 mm	each	1.00	4201.00	4201.00
3728	Hot Dipped G.I. Perforated cable tray Connector 750 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	68.47
2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
Total cost of materials					4372.07
Cartage @ 1 %					43.72
LABOUR					
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					4602.19
Add 12% GST (MF = 0.1405)					646.61
TOTAL					5248.80
Add 15 % Over Head & Contractor Profit					787.32
TOTAL					6036.12
Rate for 1 No					6036.12
Say					6036.00

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 (Rs.)
MATERIAL					
3764	Hot Dipped G.I. Perforated cable tray Reducer 900 X 75 X 2 mm	each	1.00	4893.00	4893.00
3729	Hot Dipped G.I. Perforated cable tray Connector 900 X 62.5 X 2 mm	each	1.00	38.00	38.00
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	41.00	100.86

2856	Steel fastener 8 mm X 75 mm	each	2.00	7.30	14.60
3802	GI Suspender 8 mm dia 0.75m long	each	2.00	25.00	50.00
	Total cost of materials				5096.46
	Cartage @ 1 %				50.96
	LABOUR				
1005	Fitter, Grade 2	day	0.08	612.00	48.96
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				5333.82
	Add 12% GST (MF = 0.1405)				749.40
	TOTAL				6083.23
	Add 15 % Over Head & Contractor Profit				912.48
	TOTAL				6995.71
	Rate for 1 No				6995.71
	Say				6996.00

CHAPTER 5 – E A R T H I N G

- 5.1 Earthing with G.I. earth pipe 4.5 metre 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 (Rs.)
MATERIALS					
2826	40 mm dia. G.I. pipe (medium class) = 4.50 + 0.23 (Wastage @ 5%) = 4.73m	metre	4.73	239.00	1130.47
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	277.00	277.00
2836	40 mm to 20 mm reducer	each	1.00	33.00	33.00
2918	Funnel	each	1.00	19.00	19.00
2919	G.I. nuts and through bolts with washer	each	1.00	26.00	26.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	4.00	200.00
2948	Cement	tonne	0.01	6300.00	63.00
2946	Fine sand	cum	0.030	806.00	24.18
Total cost of materials					1772.65
Cartage @ 1 % of A1					17.73
LABOUR					
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
1010	Mason, Grade 2	day	0.20	612.00	122.40
1012	Beldar/ coolie	day	0.45	553.00	248.85
1083	Drilling of 46 Nos 12 mm dia holes on G.I. pipe	L.S.	1.00	300.00	300.00
TOTAL					3074.63
Add 12% GST (MF = 0.1405)					431.99
TOTAL					3506.61
OVERHEADS & PROFIT @ 15 %					525.99
TOTAL					4032.60
Rate per Set					4032.60
Say					4033.00

- 5.2 Earthing with G.I. earth pipe 4.5 metre 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 (Rs.)
MATERIALS					
2826	40 mm dia. G.I. pipe (medium class) = 4.50 + 0.23 (Wastage @ 5%) = 4.73m	metre	4.73	239.00	1130.47
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	277.00	277.00
2836	40 mm to 20 mm reducer	each	1.00	33.00	33.00
2918	Funnel	each	1.00	19.00	19.00
2919	G.I. nuts and through bolts with washer	each	1.00	26.00	26.00
2941	Charcoal	kg	64.00	8.00	512.00
2943	Salt	kg	5.00	8.00	40.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	4.00	200.00
2948	Cement	tonne	0.01	6300.00	63.00
2946	Fine sand	cum	0.030	806.00	24.18
Total cost of materials					2324.65
Cartage @ 1 % of A1					23.25
LABOUR					
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
1010	Mason, Grade 2	day	0.20	612.00	122.40
1012	Beldar/ coolie	day	1.20	553.00	663.60
1083	Drilling of 46 Nos 12 mm dia holes on G.I. pipe	L.S.	1.00	300.00	300.00
TOTAL					4046.90
Add 12% GST (MF = 0.1405)					568.59
TOTAL					4615.49
OVERHEADS & PROFIT @ 15 %					692.32
TOTAL					5307.81
Rate per Set					5307.81
Say					5308.00

- 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 metre long etc. (but without charcoal/ coke and salt) as required. Details of cost for one Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2915	600 mm X 600 mm X 6 mm thick G.I. plate	each	1.00	1438.00	1438.00
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	metre	2.84	111.00	315.24

2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	277.00	277.00
2918	Funnel	each	1.00	19.00	19.00
2919	G.I. nuts and through bolts with washer	each	1.00	26.00	26.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	4.00	200.00
2948	Cement	tonne	0.01	6300.00	63.00
2946	Fine sand	cum	0.030	806.00	24.18
Total cost of materials					2362.42
Cartage @ 1 % of A1					23.62
LABOUR					
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
1010	Mason, Grade 2	day	0.20	612.00	122.40
1012	Beldar/ coolie	day	1.45	553.00	801.85
TOTAL					3923.29
Add 12% GST (MF = 0.1405)					551.22
TOTAL					4474.52
OVERHEADS & PROFIT @ 15 %					671.18
TOTAL					5145.70
Rate per Set					5145.70
Say					5146.00

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 metre long etc. with charcoal/ coke and salt as required.

Details of cost for one Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2915	600 mm X 600 mm X 6 mm thick G.I. plate	each	1.00	1438.00	1438.00
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	metre	2.84	111.00	315.24
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	277.00	277.00
2918	Funnel	each	1.00	19.00	19.00
2919	G.I. nuts and through bolts with washer	each	1.00	26.00	26.00
2941	Charcoal	kg	96.00	8.00	768.00
2943	Salt	kg	5.00	8.00	40.00

2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	4.00	200.00
2948	Cement	tonne	0.01	6300.00	63.00
2946	Fine sand	cum	0.030	806.00	24.18
	Total cost of materials				3170.42
	Cartage @ 1 % of A1				31.70
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
1010	Mason, Grade 2	day	0.20	612.00	122.40
1012	Beldar/ coolie	day	1.45	553.00	801.85
	TOTAL				4739.37
	Add 12% GST (MF = 0.1405)				665.88
	TOTAL				5405.26
	OVERHEADS & PROFIT @ 15 %				810.79
	TOTAL				6216.05
	Rate per Set				6216.05
	Say				6216.00

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 metre long etc. (but without charcoal/ coke and salt) as required.

Details of cost for one Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2905	600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)	each	1.00	5649.00	5649.00
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	metre	2.84	111.00	315.24
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	277.00	277.00
2918	Funnel	each	1.00	19.00	19.00
2919	G.I. nuts and through bolts with washer	each	1.00	26.00	26.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	4.00	200.00
2948	Cement	tonne	0.01	6300.00	63.00
2946	Fine sand	cum	0.030	806.00	24.18

Total cost of materials					6573.42
Cartage @ 1 % of A1					65.73
LABOUR					
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
1010	Mason, Grade 2	day	0.20	612.00	122.40
1012	Beldar/ coolie	day	1.45	553.00	801.85
TOTAL					8176.40
Add 12% GST (MF = 0.1405)					1148.78
TOTAL					9325.19
OVERHEADS & PROFIT @ 15 %					1398.78
TOTAL					10723.97
Rate per Set					10723.97
Say					10724.00

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 metre long etc. with charcoal/ coke and salt as required.

Details of cost for one Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2905	600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)	each	1.00	5649.00	5649.00
2825	20 mm dia. G.I. pipe (medium class) = 2.70 + 0.14 (Wastage @ 5%) = 2.84m	metre	2.84	111.00	315.24
2922	CI/MS cover plate hinged to frame with Locking arrangement	each	1.00	277.00	277.00
2918	Funnel	each	1.00	19.00	19.00
2919	G.I. nuts and through bolts with washer	each	1.00	26.00	26.00
2941	Charcoal	kg	96.00	8.00	768.00
2943	Salt	kg	5.00	8.00	40.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	50.00	4.00	200.00
2948	Cement	tonne	0.01	6300.00	63.00
2946	Fine sand	cum	0.030	806.00	24.18
Total cost of materials					7381.42

	Cartage @ 1 % of A1				73.81
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
1010	Mason, Grade 2	day	0.20	612.00	122.40
1012	Beldar/ coolie	day	1.45	553.00	801.85
	TOTAL				8992.48
	Add 12% GST (MF = 0.1405)				1263.44
	TOTAL				10255.93
	OVERHEADS & PROFIT @ 15 %				1538.39
	TOTAL				11794.32
	Rate per Set				11794.32
	Say				11794.00

5.7 Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.
Details of cost for 30 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2916	6 SWG G.I. wire = $30 \times 0.147 = 4.41 + 0.22$ (Wastage @ 5%) = 4.63kg	kg	4.63	61.00	282.43
1085	Solder jointing	each	2.00	12.00	24.00
	Total cost of materials				306.43
	Cartage @ 1 % of A1				2.82
	LABOUR				
1001	Wireman	day	0.125	673.00	84.13
1007	Khallasi	day	0.125	553.00	69.13
1012	Beldar/ coolie	day	1.00	553.00	553.00
	TOTAL				1015.51
	Add 12% GST (MF = 0.1405)				142.68
	TOTAL				1158.19
	OVERHEADS & PROFIT @ 15 %				173.73
	TOTAL (Cost for 30 mtr.)				1331.92
	Rate per Metre				44.40
	Say				44.00

- 5.8 Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre 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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2902	25 mm X 5 mm copper tape (1.15 kg/mtr) = 330x1.15 = 34.5 kg	kg	34.50	538.00	18561.00
1085	Solder jointing	each	5.00	12.00	60.00
Total cost of materials					18621.00
Cartage @ 1 % of A1					185.61
LABOUR					
1001	Wireman	day	0.125	673.00	84.13
1007	Khallasi	day	0.125	553.00	69.13
1012	Beldar/ coolie	day	1.00	553.00	553.00
TOTAL					19512.87
Add 12% GST (MF = 0.1405)					2741.56
TOTAL					22254.43
OVERHEADS & PROFIT @ 15 %					3338.16
TOTAL (Cost for 30 mtr.)					25592.59
Rate per Metre					853.09
Say					853.00

- 5.9 Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre 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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	55.00	2079.00
1085	Solder jointing	each	5.00	12.00	60.00
Total cost of materials					2139.00
Cartage @ 1 % of A1					20.79

LABOUR					
1001	Wireman	day	0.125	673.00	84.13
1007	Khallasi	day	0.125	553.00	69.13
1002	Cable jointer	day	1.00	673.00	673.00
TOTAL					2986.05
Add 12% GST (MF = 0.1405)					419.54
TOTAL					3405.59
Add 15 % Over Head & Contractor Profit					510.84
Cost for 30 Metre					3916.43
Rate per Metre					130.55
Say					131.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2902	25 mm X 5 mm copper tape (1.15 kg/mtr) = 10x1.15 = 11.5 kg	kg	11.50	538.00	6187.00
2826	40 mm dia. G.I. pipe (medium class) = 10.0 + 0.5 (Wastage @ 5%) = 10.5m	metre	10.50	239.00	2509.50
2838	40 mm dia. G.I. bend (medium class)	each	1.00	57.00	57.00
Total cost of materials					8753.50
Cartage @ 1 % of A1					87.54
LABOUR					
1001	Wireman	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
1012	Beldar/ coolie	day	0.33	553.00	182.49
TOTAL					9330.03
Add 12% GST (MF = 0.1405)					1310.87
TOTAL					10640.89
Add 15 % Over Head & Contractor Profit					1596.13
Cost for 10 Metre					12237.03
Rate per Metre					1223.70
Say					1224.00

- 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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2912	25 mm X 5 mm G.I. strip (1.0 kg/mtr) = $10 \times 1.0 = 10.0 + 0.5$ (Wastage @ 5%) = 10.5kg	kg	10.50	57.00	598.50
2826	40 mm dia. G.I. pipe (medium class) = $10.0 + 0.5$ (Wastage @ 5%) = 10.5m	metre	10.50	239.00	2509.50
2838	40 mm dia. G.I. bend (medium class)	each	1.00	57.00	57.00
Total cost of materials					3165.00
Cartage @ 1 % of A1					31.65
LABOUR					
1001	Wireman	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
1012	Beldar/ coolie	day	0.33	553.00	182.49
TOTAL					3685.64
Add 12% GST (MF = 0.1405)					517.83
TOTAL					4203.47
Add 15 % Over Head & Contractor Profit					630.52
Cost for 10 Metre					4833.99
Rate per Metre					483.40
Say					483.00

- 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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2824	15 mm dia. G.I. pipe (medium class) = $10 \times 1.0 = 10.0 + 0.5$ (Wastage @ 5%) = 10.5kg	metre	10.50	88.00	924.00
2916	6 SWG G.I. wire = $10 \times 0.147 = 1.47 + 0.09$ (Wastage @ 5%) = 1.79kg	kg	1.79	61.00	109.19

Total cost of materials					1033.19
Cartage @ 1 % of A1					10.33
LABOUR					
1001	Wireman	day	0.170	673.00	114.41
1007	Khallasi	day	0.170	553.00	94.01
1012	Beldar/ coolie	day	0.33	553.00	182.49
TOTAL					1434.43
Add 12% GST (MF = 0.1405)					201.54
TOTAL					1635.97
Add 15 % Over Head & Contractor Profit					245.40
Cost for 10 Metre					1881.37
Rate per Metre					188.14
Say					188.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2824	15 mm dia. G.I. pipe (medium class) = 10x1.0 = 10.0 + 0.5 (Wastage @ 5%) = 10.5kg	metre	10.50	88.00	924.00
2904	8 SWG copper wire (4.0 mm dia) = (0.117 kg/mtr) = 10x0.117 = 1.17 kg	kg	1.17	540.00	631.80
Total cost of materials					1555.80
Cartage @ 1 % of A1					15.56
LABOUR					
1001	Wireman	day	0.170	673.00	114.41
1007	Khallasi	day	0.170	553.00	94.01
1012	Beldar/ coolie	day	0.33	553.00	182.49
TOTAL					1962.27
Add 12% GST (MF = 0.1405)					275.70
TOTAL					2237.97
Add 15 % Over Head & Contractor Profit					335.69
Cost for 10 Metre					2573.66
Rate per Metre					257.37
Say					257.00

- 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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2902	25 mm X 5 mm copper tape (1.15 kg/mtr) = 10x1.15 = 11.5 kg	kg	11.50	538.00	6187.00
2906	Copper saddle	each	17.00	30.00	510.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	34.00	0.50	17.00
2857	PVC fastener 40mm long	each	17.00	0.30	5.10
Total cost of materials					6719.10
Cartage @ 1 % of A1					67.19
LABOUR					
1001	Wireman	day	0.50	673.00	336.50
1010	Mason, Grade 2	day	0.25	612.00	153.00
1007	Khallas	day	0.75	553.00	414.75
TOTAL					7690.54
Add 12% GST (MF = 0.1405)					1080.52
TOTAL					8771.06
Add 15 % Over Head & Contractor Profit					1315.66
Cost for 10 Metre					10086.72
Rate per Metre					1008.67
Say					1009.00

- 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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	57.00	598.50
2917	GI saddle 20mm x 3mm	each	17.00	2.50	42.50
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	34.00	0.50	17.00
2857	PVC fastener 40mm long	each	17.00	0.30	5.10

Total cost of materials					663.10
Cartage @ 1 % of A1					6.63
LABOUR					
1001	Wireman	day	0.50	673.00	336.50
1010	Mason, Grade 2	day	0.25	612.00	153.00
1007	Khallasi	day	0.75	553.00	414.75
TOTAL					1573.98
Add 12% GST (MF = 0.1405)					221.14
TOTAL					1795.13
Add 15 % Over Head & Contractor Profit					269.27
Cost for 10 Metre					2064.39
Rate per Metre					206.44
Say					206.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2916	6 SWG G.I. wire	kg	7.72	61.00	470.92
	= $50 \times 0.147 = 7.35 + 0.37$ (Wastage @ 5%) = 7.72kg				
2921	G.I. Hooks made of 8 SWG GI wire/ GI clip	each	85.00	2.00	170.00
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
Total cost of materials					666.42
Cartage @ 1 % of A1					6.66
LABOUR					
1001	Wireman	day	0.75	673.00	504.75
1010	Mason, Grade 2	day	0.50	612.00	306.00
1007	Khallasi	day	1.25	553.00	691.25
TOTAL					2175.08
Add 12% GST (MF = 0.1405)					305.60
TOTAL					2480.68
Add 15 % Over Head & Contractor Profit					372.10
Cost for 50 Metre					2852.79
Rate per Metre					57.06
Say					57.00

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 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2904	8 SWG copper wire (4.0 mm dia) (0.117 kg/mtr) = 50x0.117 = 5.85 kg	kg	5.85	540.00	3159.00
2921	G.I. Hooks made of 8 SWG GI wire/ GI clip	each	85.00	2.00	170.00
2857	PVC fastener 40mm long	each	85.00	0.30	25.50
Total cost of materials					3354.50
Cartage @ 1 % of A1					33.55
LABOUR					
1001	Wireman	day	0.75	673.00	504.75
1010	Mason, Grade 2	day	0.50	612.00	306.00
1007	Khallasi	day	1.25	553.00	691.25
TOTAL					4890.05
Add 12% GST (MF = 0.1405)					687.05
TOTAL					5577.10
Add 15 % Over Head & Contractor Profit					836.56
Cost for 50 Metre					6413.66
Rate per Metre					128.27
Say					128.00

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 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2916	6 SWG G.I. wire (0.147 kg/mtr) = 50x0.147 = 7.35 + 0.37 (Wastage @ 5%) = 7.72kg	kg	7.72	61.00	470.92
Total cost of materials					470.92
Cartage @ 1 % of A1					4.71
LABOUR					
1001	Wireman	day	0.75	673.00	504.75
1007	Khallasi	day	0.75	553.00	414.75
TOTAL					1395.13

Add 12% GST (MF = 0.1405)	196.02
TOTAL	1591.14
Add 15 % Over Head & Contractor Profit	238.67
Cost for 50 Metre	1829.82
Rate per Metre	36.60
Say	37.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2904	8 SWG copper wire (4.0 mm dia) (0.117 kg/mtr) = 50x0.117 = 5.85 kg	kg	5.85	540.00	3159.00
	Total cost of materials				3159.00
	Cartage @ 1 % of A1				31.59
LABOUR					
1001	Wireman	day	0.75	673.00	504.75
1007	Khallasi	day	0.75	553.00	414.75
	TOTAL				4110.09
	Add 12% GST (MF = 0.1405)				577.47
	TOTAL				4687.56
	Add 15 % Over Head & Contractor Profit				703.13
	Cost for 50 Metre				5390.69
	Rate per Metre				107.81
	Say				108.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2907	50 mm X 5mm copper strip (2.30 kg/mtr) = 10x2.30 = 23.00 kg	kg	23.00	538.00	12374.00
2906	Copper saddle	each	17.00	30.00	510.00
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	34.00	0.50	17.00
2857	PVC fastener 40mm long	each	17.00	0.30	5.10

Total cost of materials					12906.10
Cartage @ 1 % of A1					129.06
LABOUR					
1001	Wireman	day	0.60	673.00	403.80
1010	Mason, Grade 2	day	0.25	612.00	153.00
1007	Khallasi	day	0.85	553.00	470.05
TOTAL					14062.01
Add 12% GST (MF = 0.1405)					1975.71
TOTAL					16037.72
Add 15 % Over Head & Contractor Profit					2405.66
Cost for 10 Metre					18443.38
Rate per Meter					1844.34
Say					1844.00

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 (Rs.)
MATERIALS					
2910	Lightning finial, 25 mm dia X 300 mm long, G.I.	each	1.00	127.00	127.00
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
	Total cost of materials				149.00
	Cartage @ 1 % of A1				1.49
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				341.77
	Add 12% GST (MF = 0.1405)				48.02
	TOTAL				389.79
	Add 15 % Over Head & Contractor Profit				58.47
	TOTAL				448.26
	Rate per Each				448.26
	Say				448.00

6.3 Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.

Details of cost for One each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
	Total cost of materials				22.00
	Cartage @ 1 % of A1				0.22
LABOUR					
1001	Wireman	day	0.08	673.00	53.84
1010	Mason, Grade 2	day	0.08	612.00	48.96
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				213.50

Add 12% GST (MF = 0.1405)	30.00
TOTAL	243.50
Add 15 % Over Head & Contractor Profit	36.52
TOTAL	280.02
Rate per Each	280.02
Say	280.00

- 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 (Rs.)
MATERIALS					
2860	6 mm dia rivet/ stud/ bolts and nuts	each	2.00	3.25	6.50
2940	Tin solder etc.	L.S.	1.00	6.00	6.00
	Total cost of materials				12.50
	Cartage @ 1 % of A1				0.13
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.05	553.00	27.65
	TOTAL				70.88
	Add 12% GST (MF = 0.1405)				9.96
	TOTAL				80.83
	Add 15 % Over Head & Contractor Profit				12.12
	TOTAL				92.96
	Rate per Each				92.96
	Say				93.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	61.00	295.24

2917	GI saddle 20mm x 3mm	each	10.00	2.50	25.00
2857	PVC fastener 40mm long	each	10.00	0.30	3.00
2852	Iron screws, 35 mm X 6 mm	each	10.00	1.00	10.00
Total cost of materials					333.24
Cartage @ 1 % of A1					3.33
LABOUR					
1001	Wireman	day	0.25	673.00	168.25
1010	Mason, Grade 2	day	0.130	612.00	79.56
1007	Khallasi	day	0.380	553.00	210.14
TOTAL					794.52
Add 12% GST (MF = 0.1405)					111.63
TOTAL					906.15
Add 15 % Over Head & Contractor Profit					135.92
Cost for 10 Metre					1042.08
Rate per Metre					104.21
Say					104.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	61.00	295.24
2917	GI saddle 20mm x 3mm	each	11.00	2.50	27.50
2857	PVC fastener 40mm long	each	11.00	0.30	3.30
2852	Iron screws, 35 mm X 6 mm	each	11.00	1.00	11.00
Total cost of materials					337.04
Cartage @ 1 % of A1					3.37
LABOUR					
1001	Wireman	day	0.50	673.00	336.50
1010	Mason, Grade 2	day	0.25	612.00	153.00
1007	Khallasi	day	0.75	553.00	414.75
TOTAL					1244.66
Add 12% GST (MF = 0.1405)					174.87
TOTAL					1419.54

Add 15 % Over Head & Contractor Profit	212.93
Cost for 10 Metre	1632.47
Rate per Metre	163.25
Say	163.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2917	GI saddle 20mm x 3mm	each	10.00	2.50	25.00
2857	PVC fastener 40mm long	each	10.00	0.30	3.00
2852	Iron screws, 35 mm X 6 mm	each	10.00	1.00	10.00
	Total cost of materials				38.00
	Cartage @ 1 % of A1				0.38
LABOUR					
1001	Wireman	day	0.25	673.00	168.25
1010	Mason, Grade 2	day	0.130	612.00	79.56
1007	Khallas	day	0.380	553.00	210.14
	TOTAL				496.33
	Add 12% GST (MF = 0.1405)				69.73
	TOTAL				566.06
	Add 15 % Over Head & Contractor Profit				84.91
	Cost for 10 Metre				650.97
	Rate per Metre				65.10
	Say				65.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2917	GI saddle 20mm x 3mm	each	11.00	2.50	27.50
2857	PVC fastener 40mm long	each	11.00	0.30	3.30
2935	Cement, paint, sand etc.	L.S.	11.00	5.00	55.00

2852	Iron screws, 35 mm X 6 mm	each	11.00	1.00	11.00
	Total cost of materials				96.80
	Cartage @ 1 % of A1				0.97
	LABOUR				
1001	Wireman	day	0.50	673.00	336.50
1010	Mason, Grade 2	day	0.25	612.00	153.00
1007	Khallasi	day	0.75	553.00	414.75
	TOTAL				1002.02
	Add 12% GST (MF = 0.1405)				140.78
	TOTAL				1142.80
	Add 15 % Over Head & Contractor Profit				171.42
	Cost for 10 Metre				1314.22
	Rate per Metre				131.42
	Say				131.00

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 One each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	61.00	3.66
2866	10 mm X 25 mm long G.I. bolt with nut etc	each	4.00	9.30	37.20
	Total cost of materials				40.86
	Cartage @ 1 % of A1				0.41
	LABOUR				
1001	Wireman	day	0.030	673.00	20.19
1007	Khallasi	day	0.030	553.00	16.59
	TOTAL				78.05
	Add 12% GST (MF = 0.1405)				10.97
	TOTAL				89.01
	Add 15 % Over Head & Contractor Profit				13.35
	TOTAL				102.37
	Rate per Each				102.37
	Say				102.00

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 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	55.00	851.95
	Total cost of materials				851.95
	Cartage @ 1 % of A1				8.52
	LABOUR				
1001	Wireman	day	0.165	673.00	111.05
1007	Khallasi	day	0.165	553.00	91.25
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				1339.27
	Add 12% GST applicable on work contract, by reversible method (multiplying factor 0.1405)				188.17
	TOTAL				1527.44
	Add 15 % Over Head & Contractor Profit				229.12
	Cost for 10 Metre				1756.55
	Rate per Metre				175.66
	Say				176.00

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 Metres**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1001	Wireman	day	0.165	673.00	111.05
1007	Khallasi	day	0.165	553.00	91.25
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				478.80
	Add 12% GST applicable on work contract, by reversible method (multiplying factor 0.1405)				67.27
	TOTAL				546.07
	Add 15 % Over Head & Contractor Profit				81.91
	Cost for 10 Metre				627.98
	Rate per Metre				62.80
	Say				63.00

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 (Rs.)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	8.76	806.00	7060.56
	Total cost of materials				10732.56
	Cartage @ 1 % of A1				107.33
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	4.00	553.00	2212.00
	TOTAL				13724.89
	Add 12% GST (MF = 0.1405)				1928.35
	TOTAL				15653.23
	OVERHEADS & PROFIT @ 15 %				2347.98
	TOTAL				18001.21
14.4	Excavation including refilling as required	cum	26.26	546.00	14337.96
	Cost for 100 Meters				32339.17
	Rate per Meter				323.39
	Say				323.00

7.1.2 Above 35 sq. mm and upto 95 sq. mm

Details of cost for 100 Meters

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	8.76	806.00	7060.56
	Total cost of materials				10732.56

	Cartage @ 1 % of A1				107.33
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	6.00	553.00	3318.00
	TOTAL				14830.89
	Add 12% GST (MF = 0.1405)				2083.74
	TOTAL				16914.63
	OVERHEADS & PROFIT @ 15 %				2537.19
	TOTAL				19451.82
14.4	Excavation including refilling as required	cum	26.26	546.00	14337.96
	Cost for 100 Meters				33789.78
	Rate per Meter				337.90
	Say				338.00

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 (Rs.)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	8.76	806.00	7060.56
	Total cost of materials				10732.56
	Cartage @ 1 % of A1				107.33
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	8.00	553.00	4424.00
	TOTAL				15936.89
	Add 12% GST (MF = 0.1405)				2239.13
	TOTAL				18176.02
	OVERHEADS & PROFIT @ 15 %				2726.40
	TOTAL				20902.42
14.4	Excavation including refilling as required	cum	26.26	546.00	14337.96
	Cost for 100 Meters				35240.38
	Rate per Meter				352.40
	Say				352.00

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 (Rs.)
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	8.76	806.00	7060.56
Total cost of materials					10732.56
Cartage @ 1 % of A1					107.33
LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	14.00	553.00	7742.00
TOTAL					19254.89
Add 12% GST (MF = 0.1405)					2705.31
TOTAL					21960.20
OVERHEADS & PROFIT @ 15 %					3294.03
TOTAL					25254.23
14.4	Excavation including refilling as required	cum	26.26	546.00	14337.96
Cost for 100 Meters					39592.19
Rate per Meter					395.92
Say					396.00

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 (Rs.)
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	5.00	806.00	4030.00
Total cost of materials					7702.00

	Cartage @ 1 % of A1				77.02
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	4.00	553.00	2212.00
	TOTAL				10664.02
	Add 12% GST (MF = 0.1405)				1498.29
	TOTAL				12162.31
	OVERHEADS & PROFIT @ 15 %				1824.35
	TOTAL				13986.66
14.4	Excavation including refilling as required	cum	15.00	546.00	8190.00
	Cost for 100 Meters				22176.66
	Rate per Meter				221.77
	Say				222.00

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 (Rs.)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	5.00	806.00	4030.00
	Total cost of materials				7702.00
	Cartage @ 1 % of A1				77.02
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	6.00	553.00	3318.00
	TOTAL				11770.02
	Add 12% GST (MF = 0.1405)				1653.69
	TOTAL				13423.71
	OVERHEADS & PROFIT @ 15 %				2013.56
	TOTAL				15437.27
14.4	Excavation including refilling as required	cum	15.00	546.00	8190.00
	Cost for 100 Meters				23627.27
	Rate per Meter				236.27
	Say				236.00

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 (Rs.)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	5.00	806.00	4030.00
	Total cost of materials				7702.00
	Cartage @ 1 % of A1				77.02
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	8.00	553.00	4424.00
	TOTAL				12876.02
	Add 12% GST (MF = 0.1405)				1809.08
	TOTAL				14685.10
	OVERHEADS & PROFIT @ 15 %				2202.77
	TOTAL				16887.87
14.4	Excavation including refilling as required	cum	15.00	546.00	8190.00
	Cost for 100 Meters				25077.87
	Rate per Meter				250.78
	Say				251.00

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 (Rs.)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	5.00	806.00	4030.00
	Total cost of materials				7702.00
	Cartage @ 1 % of A1				77.02
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	14.00	553.00	7742.00

	TOTAL				16194.02
	Add 12% GST (MF = 0.1405)				2275.26
	TOTAL				18469.28
	OVERHEADS & PROFIT @ 15 %				2770.39
	TOTAL				21239.67
14.4	Excavation including refilling as required	cum	15.00	546.00	8190.00
	Cost for 100 Meters				29429.67
	Rate per Meter				294.30
	Say				294.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	2.00	553.00	1106.00
	TOTAL				1779.00
	Add 12% GST (MF = 0.1405)				249.95
	TOTAL				2028.95
	OVERHEADS & PROFIT @ 15 %				304.34
	TOTAL				2333.29
14.4	Excavation including refilling as required	cum	26.26	546.00	14337.96
	Cost for 100 Meters				16671.25
	Rate per Meter				166.71
	Say				167.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	4.00	553.00	2212.00
	TOTAL				2885.00
	Add 12% GST (MF = 0.1405)				405.34
	TOTAL				3290.34

	OVERHEADS & PROFIT @ 15 %				493.55
	TOTAL				3783.89
14.4	Excavation including refilling as required	cum	26.26	546.00	14337.96
	Cost for 100 Meters				18121.85
	Rate per Meter				181.22
	Say				181.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	6.00	553.00	3318.00
	TOTAL				3991.00
	Add 12% GST (MF = 0.1405)				560.74
	TOTAL				4551.74
	OVERHEADS & PROFIT @ 15 %				682.76
	TOTAL				5234.50
14.4	Excavation including refilling as required	cum	26.26	546.00	14337.96
	Cost for 100 Meters				19572.46
	Rate per Meter				195.72
	Say				196.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	12.00	553.00	6636.00
	TOTAL				7309.00
	Add 12% GST (MF = 0.1405)				1026.91
	TOTAL				8335.91
	OVERHEADS & PROFIT @ 15 %				1250.39
	TOTAL				9586.30
14.4	Excavation including refilling as required	cum	26.26	546.00	14337.96
	Cost for 100 Meters				23924.26
	Rate per Meter				239.24
	Say				239.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	2.00	553.00	1106.00
	TOTAL				1779.00
	Add 12% GST (MF = 0.1405)				249.95
	TOTAL				2028.95
	OVERHEADS & PROFIT @ 15 %				304.34
	TOTAL				2333.29
14.4	Excavation including refilling as required	cum	15.00	546.00	8190.00
	Cost for 100 Meters				10523.29
	Rate per Meter				105.23
	Say				105.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	4.00	553.00	2212.00
	TOTAL				2885.00
	Add 12% GST (MF = 0.1405)				405.34
	TOTAL				3290.34
	OVERHEADS & PROFIT @ 15 %				493.55
	TOTAL				3783.89
14.4	Excavation including refilling as required	cum	15.00	546.00	8190.00
	Cost for 100 Meters				11973.89
	Rate per Meter				119.74
	Say				120.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	6.00	553.00	3318.00
	TOTAL				3991.00
	Add 12% GST (MF = 0.1405)				560.74
	TOTAL				4551.74
	OVERHEADS & PROFIT @ 15 %				682.76
	TOTAL				5234.50
14.4	Excavation including refilling as required	cum	15.00	546.00	8190.00
	Cost for 100 Meters				13424.50
	Rate per Meter				134.24
	Say				134.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	12.00	553.00	6636.00
	TOTAL				7309.00
	Add 12% GST (MF = 0.1405)				1026.91
	TOTAL				8335.91
	OVERHEADS & PROFIT @ 15 %				1250.39
	TOTAL				9586.30
14.4	Excavation including refilling as required	cum	15.00	546.00	8190.00
	Cost for 100 Meters				17776.30
	Rate per Meter				177.76
	Say				178.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	3.00	553.00	1659.00
	TOTAL				2332.00
	Add 12% GST (MF = 0.1405)				327.65
	TOTAL				2659.65
	OVERHEADS & PROFIT @ 15 %				398.95
	Cost for 100 Meters				3058.60
	Rate per Meter				30.59
	Say				31.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.25	673.00	841.25
1007	Khallasi	day	5.00	553.00	2765.00
	TOTAL				3606.25
	Add 12% GST (MF = 0.1405)				506.68
	TOTAL				4112.93
	OVERHEADS & PROFIT @ 15 %				616.94
	Cost for 100 Meters				4729.87
	Rate per Meter				47.30
	Say				47.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	7.00	553.00	3871.00
	TOTAL				4880.50
	Add 12% GST (MF = 0.1405)				685.71
	TOTAL				5566.21

OVERHEADS & PROFIT @ 15 %	834.93
Cost for 100 Meters	6401.14
Rate per Meter	64.01
Say	64.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	2.00	673.00	1346.00
1007	Khallasi	day	13.00	553.00	7189.00
	TOTAL				8535.00
	Add 12% GST (MF = 0.1405)				1199.17
	TOTAL				9734.17
	OVERHEADS & PROFIT @ 15 %				1460.13
	Cost for 100 Meters				11194.30
	Rate per Meter				111.94
	Say				112.00

7.6.1 Upto 35 sq. mm**Details of cost for 100 Meters**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	2.00	553.00	1106.00
	TOTAL				1779.00
	Add 12% GST (MF = 0.1405)				249.95
	TOTAL				2028.95
	OVERHEADS & PROFIT @ 15 %				304.34
	Cost for 100 Meters				2333.29
	Rate per Meter				23.33
	Say				23.00

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.**7.6.2 Above 35 sq. mm and upto 95 sq. mm****Details of cost for 100 Meters**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	4.00	553.00	2212.00
	TOTAL				2885.00
	Add 12% GST (MF = 0.1405)				405.34
	TOTAL				3290.34
	OVERHEADS & PROFIT @ 15 %				493.55
	Cost for 100 Meters				3783.89
	Rate per Meter				37.84
	Say				38.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	6.00	553.00	3318.00
	TOTAL				3991.00
	Add 12% GST (MF = 0.1405)				560.74
	TOTAL				4551.74
	OVERHEADS & PROFIT @ 15 %				682.76
	Cost for 100 Meters				5234.50
	Rate per Meter				52.34
	Say				52.00

7.6.4 Above 185 sq. mm and upto 400 sq. mm
Details of cost for 100 Meters

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	12.00	553.00	6636.00
	TOTAL				7309.00
	Add 12% GST (MF = 0.1405)				1026.91
	TOTAL				8335.91

OVERHEADS & PROFIT @ 15 %	1250.39
Cost for 100 Meters	9586.30
Rate per Meter	95.86
Say	96.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2881	GI saddles 19mm x 0.55mm for conduit = $100/0.45 = 222 + 4$ (Wastage @ 2%) = 226 Nos	each	226.00	1.00	226.00
2854	Iron screws, 45 mm X 6 mm	each	452.00	1.10	497.20
2857	PVC fastener 40mm long	each	452.00	0.30	135.60
2935	Cement, paint, sand etc.	L.S.	2.00	5.00	10.00
Total cost of materials					868.80
Cartage @ 1 % of A1					8.69
LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1010	Mason, Grade 2	day	0.50	612.00	306.00
1007	Khallasi	day	2.00	553.00	1106.00
TOTAL					2962.49
Add 12% GST (MF = 0.1405)					416.23
TOTAL					3378.72
OVERHEADS & PROFIT @ 15 %					506.81
Cost for 100 Meters					3885.53
Rate per Metre					38.86
Say					39.00

7.7.2 Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)

Details of cost for 100 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2862	32mm X 8mm bolts & nuts = $2 \times (100/0.6) = 334 + 16$ (Wastage @ 5%) = 350 Nos	each	350.00	4.30	1505.00

2809	20/25 mm X 3 mm flat iron	kg	9.06	33.00	298.98
	= 84 x 0.16m = 13.44m @ 0.337kg/m = 4.53 kg				
2855	Steel fastener 6 mm X 75 mm	each	336.00	5.50	1848.00
	Total cost of materials				3651.98
	Cartage @ 1 % of A1				36.52
	LABOUR				
1001	Wireman	day	1.25	673.00	841.25
1005	Fitter, Grade 2	day	0.33	612.00	201.96
1009	Blacksmith, Grade 2	day	0.33	612.00	201.96
1010	Mason, Grade 2	day	0.33	612.00	201.96
1007	Khallasi	day	5.00	553.00	2765.00
	TOTAL				7900.63
	Add 12% GST (MF = 0.1405)				1110.04
	TOTAL				9010.67
	OVERHEADS & PROFIT @ 15 %				1351.60
	Cost for 100 Meters				10362.27
	Rate per Metre				103.62
	Say				104.00

7.7.3 Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)
Details of cost for 100 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2862	32mm X 8mm bolts & nuts	each	350.00	4.30	1505.00
	= 2x(100/0.6) = 334 + 16 (Wastage @ 5%)				
	= 350 Nos				
2809	20/25 mm X 3 mm flat iron	kg	13.58	33.00	448.14
	= 84 x 0.24m = 20.16m @ 0.337kg/m = 6.79 kg				
2855	Steel fastener 6 mm X 75 mm	each	336.00	5.50	1848.00
	Total cost of materials				3801.14
	Cartage @ 1 % of A1				38.01
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1005	Fitter, Grade 2	day	0.33	612.00	201.96
1009	Blacksmith, Grade 2	day	0.33	612.00	201.96
1010	Mason, Grade 2	day	0.33	612.00	201.96
1007	Khallasi	day	7.00	553.00	3871.00

TOTAL	9325.53
Add 12% GST (MF = 0.1405)	1310.24
TOTAL	10635.77
OVERHEADS & PROFIT @ 15 %	1595.37
Cost for 100 Meters	12231.14
Rate per Metre	122.31
Say	122.00

7.7.4 Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)

Details of cost for 100 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2862	32mm X 8mm bolts & nuts = $2 \times (100/0.6) = 334 + 16$ (Wastage @ 5%) = 350 Nos	each	350.00	4.30	1505.00
2812	40 mm X 3 mm flat iron = $84 \times 0.24\text{m} = 20.16\text{m}$ @ 0.547kg/m = 11.03 kg	kg	22.06	33.00	727.98
2855	Steel fastener 6 mm X 75 mm	each	336.00	5.50	1848.00
	Total cost of materials				4080.98
	Cartage @ 1 % of A1				40.81
LABOUR					
1001	Wireman	day	2.00	673.00	1346.00
1005	Fitter, Grade 2	day	0.50	612.00	306.00
1009	Blacksmith, Grade 2	day	0.50	612.00	306.00
1010	Mason, Grade 2	day	0.50	612.00	306.00
1007	Khallasi	day	13.50	553.00	7465.50
	TOTAL				13851.29
	Add 12% GST (MF = 0.1405)				1946.11
	TOTAL				15797.40
	OVERHEADS & PROFIT @ 15 %				2369.61
	Cost for 100 Meters				18167.01
	Rate per Metre				181.67
	Say				182.00

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 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2881	GI saddles 19mm x 0.55mm for conduit = $100/0.45 = 222 + 4$ (Wastage @ 2%) = 226 Nos	each	226.00	1.00	226.00
2854	Iron screws, 45 mm X 6 mm	each	452.00	1.10	497.20
2935	Cement, paint, sand etc.	L.S.	2.00	5.00	10.00
Total cost of materials					733.20
Cartage @ 1 % of A1					7.33
LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	2.00	553.00	1106.00
TOTAL					2519.53
Add 12% GST (MF = 0.1405)					353.99
TOTAL					2873.53
OVERHEADS & PROFIT @ 15 %					431.03
Cost for 100 Meters					3304.56
Rate per Metre					33.05
Say					33.00

7.8.2 Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)

Details of cost for 100 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2862	32mm X 8mm bolts & nuts = $2 \times (100/0.6) = 334 + 16$ (Wastage @ 5%) = 350 Nos	each	350.00	4.30	1505.00
2809	20/25 mm X 3 mm flat iron = $84 \times 0.16\text{m} = 13.44\text{m}$ @ 0.337kg/m = 4.53 kg	kg	9.06	33.00	298.98
Total cost of materials					1803.98
Cartage @ 1 % of A1					18.04
LABOUR					
1001	Wireman	day	1.25	673.00	841.25
1005	Fitter, Grade 2	day	0.33	612.00	201.96
1009	Blacksmith, Grade 2	day	0.33	612.00	201.96
1007	Khallasi	day	4.66	553.00	2576.98

TOTAL	5644.17
Add 12% GST (MF = 0.1405)	793.01
TOTAL	6437.18
OVERHEADS & PROFIT @ 15 %	965.58
Cost for 100 Meters	7402.76
Rate per Metre	74.03
Say	74.00

7.8.3 Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)
Details of cost for 100 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2862	32mm X 8mm bolts & nuts = 2x(100/0.6) = 334 + 16 (Wastage @ 5%) = 350 Nos	each	350.00	4.30	1505.00
2809	20/25 mm X 3 mm flat iron = 84 x 0.24m = 20.16m @ 0.337kg/m = 6.79 kg	kg	13.58	33.00	448.14
Total cost of materials					1953.14
Cartage @ 1 % of A1					19.53
LABOUR					
1001	Wireman	day	1.50	673.00	1009.50
1005	Fitter, Grade 2	day	0.33	612.00	201.96
1009	Blacksmith, Grade 2	day	0.33	612.00	201.96
1007	Khallas	day	6.66	553.00	3682.98
TOTAL					7069.07
Add 12% GST (MF = 0.1405)					993.20
TOTAL					8062.28
OVERHEADS & PROFIT @ 15 %					1209.34
Cost for 100 Meters					9271.62
Rate per Metre					92.72
Say					92.50

7.8.4 Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)
Details of cost for 100 Metres

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2862	32mm X 8mm bolts & nuts = 2x(100/0.6) = 334 + 16 (Wastage @ 5%) = 350 Nos	each	350.00	4.30	1505.00

2812	40 mm X 3 mm flat iron	kg	22.06	33.00	727.98
	= 84 x 0.24m = 20.16m @ 0.547kg/m = 11.03 kg				
	Total cost of materials				2232.98
	Cartage @ 1 % of A1				22.33
	LABOUR				
1001	Wireman	day	2.00	673.00	1346.00
1005	Fitter, Grade 2	day	0.50	612.00	306.00
1009	Blacksmith, Grade 2	day	0.50	612.00	306.00
1007	Khallasi	day	13.00	553.00	7189.00
	TOTAL				11402.31
	Add 12% GST (MF = 0.1405)				1602.02
	TOTAL				13004.33
	OVERHEADS & PROFIT @ 15 %				1950.65
	Cost for 100 Meters				14954.98
	Rate per Metre				149.55
	Say				150.00

- 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 (Rs.)
	LABOUR				
1010	Mason, Grade 2	day	0.120	612.00	73.44
1007	Khallasi	day	0.120	553.00	66.36
	TOTAL				139.80
	Add 12% GST (MF = 0.1405)				19.64
	TOTAL				159.44
	Add 15 % Over Head & Contractor Profit				23.92
	TOTAL				183.36
14.4	Excavation including refilling as required	cum	0.22	546.00	120.12
14.7	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	0.03	7549.00	226.47
	TOTAL				529.95
	Rate per Each				529.95
	Say				530.00

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 (Rs.)
MATERIALS					
2926	G.I. plate (10 cm X 10 cm X 5 mm)	kg	0.39	55.00	21.45
2806	35 mm X 35 mm X 5 mm angle iron	kg	1.97	33.00	65.01
2868	16 mm X 40 mm bolts and nuts with washers	set	2.00	6.30	12.60
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					104.06
Cartage @ 1 % of A1					1.04
LABOUR					
1005	Fitter, Grade 2	day	0.120	612.00	73.44
1006	Painter	day	0.077	612.00	47.12
1007	Khallasi	day	0.120	553.00	66.36
TOTAL					292.02
Add 12% GST (MF = 0.1405)					41.03
TOTAL					333.05
Add 15 % Over Head & Contractor Profit					49.96
TOTAL					383.01
Rate per Each					383.01
Say					383.00

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 (Rs.)
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	8.76	806.00	7060.56
	Total cost of materials				10732.56
	Cartage @ 1 % of A1				107.33
LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	8.00	553.00	4424.00
	TOTAL				15936.89
	Add 12% GST (MF = 0.1405)				2239.13
	TOTAL				18176.02
	Add 15 % Over Head & Contractor Profit				2726.40
	TOTAL				20902.42
14.4	Excavation including refilling as required	cum	42.00	546.00	22932.00
	Cost for 100 Meters				43834.42
	Rate per Meter				438.34
	Say				438.00

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 (Rs.)
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	8.76	806.00	7060.56
	Total cost of materials				10732.56
	Cartage @ 1 % of A1				107.33

LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	14.00	553.00	7742.00
TOTAL					19254.89
Add 12% GST (MF = 0.1405)					2705.31
TOTAL					21960.20
Add 15 % Over Head & Contractor Profit					3294.03
TOTAL					25254.23
14.4	Excavation including refilling as required	cum	42.00	546.00	22932.00
Cost for 100 Meters					48186.23
Rate per Meter					481.86
Say					482.00

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 (Rs.)
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	5.00	806.00	4030.00
Total cost of materials					7702.00
Cartage @ 1 % of A1					77.02
LABOUR					
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	8.00	553.00	4424.00
TOTAL					12876.02
Add 12% GST (MF = 0.1405)					1809.08
TOTAL					14685.10
Add 15 % Over Head & Contractor Profit					2202.77
TOTAL					16887.87
14.4	Excavation including refilling as required	cum	24.00	546.00	13104.00
Cost for 100 Meters					29991.87
Rate per Meter					299.92
Say					300.00

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 (Rs.)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	5.00	806.00	4030.00
	Total cost of materials				7702.00
	Cartage @ 1 % of A1				77.02
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	14.00	553.00	7742.00
	TOTAL				16194.02
	Add 12% GST (MF = 0.1405)				2275.26
	TOTAL				18469.28
	Add 15 % Over Head & Contractor Profit				2770.39
	TOTAL				21239.67
14.4	Excavation including refilling as required	cum	24.00	546.00	13104.00
	Cost for 100 Meters				34343.67
	Rate per Meter				343.44
	Say				343.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	7.00	553.00	3871.00
	TOTAL				4880.50
	Add 12% GST (MF = 0.1405)				685.71
	TOTAL				5566.21
	OVERHEADS & PROFIT @ 15 %				834.93
	Cost for 100 Meters				6401.14
	Rate per Meter				64.01
	Say				64.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	2.00	673.00	1346.00
1007	Khallasi	day	13.00	553.00	7189.00
	TOTAL				8535.00
	Add 12% GST (MF = 0.1405)				1199.17
	TOTAL				9734.17
	OVERHEADS & PROFIT @ 15 %				1460.13
	Cost for 100 Meters				11194.30
	Rate per Meter				111.94
	Say				112.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	6.00	553.00	3318.00
	TOTAL				3991.00
	Add 12% GST (MF = 0.1405)				560.74
	TOTAL				4551.74
	OVERHEADS & PROFIT @ 15 %				682.76
	Cost for 100 Meters				5234.50
	Rate per Meter				52.34
	Say				52.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.00	673.00	673.00
1007	Khallasi	day	12.00	553.00	6636.00

TOTAL	7309.00
Add 12% GST (MF = 0.1405)	1026.91
TOTAL	8335.91
OVERHEADS & PROFIT @ 15 %	1250.39
Cost for 100 Meters	9586.30
Rate per Meter	95.86
Say	96.00

Analysis of rate

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 (Rs.)
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	8.76	806.00	7060.56
	Total cost of materials				10732.56
	Cartage @ 1 % of A1				107.33
LABOUR					
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	8.00	553.00	4424.00
	TOTAL				16273.39
	Add 12% GST (MF = 0.1405)				2286.41
	TOTAL				18559.80
	OVERHEADS & PROFIT @ 15 %				2783.97
	TOTAL				21343.77
14.4	Excavation including refilling as required	cum	42.00	546.00	22932.00
	Cost for 100 Meters				44275.77
	Rate per Meter				442.76
	Say				443.00

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 (Rs.)
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00

2946	Fine sand	cum	8.76	806.00	7060.56
	Total cost of materials				10732.56
	Cartage @ 1 % of A1				107.33
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	14.00	553.00	7742.00
	TOTAL				19591.39
	Add 12% GST (MF = 0.1405)				2752.59
	TOTAL				22343.98
	OVERHEADS & PROFIT @ 15 %				3351.60
	TOTAL				25695.58
14.4	Excavation including refilling as required	cum	42.00	546.00	22932.00
	Cost for 100 Meters				48627.58
	Rate per Meter				486.28
	Say				486.00

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 (Rs.)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	5.00	806.00	4030.00
	Total cost of materials				7702.00
	Cartage @ 1 % of A1				77.02
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	8.00	553.00	4424.00
	TOTAL				13212.52
	Add 12% GST (MF = 0.1405)				1856.36
	TOTAL				15068.88
	OVERHEADS & PROFIT @ 15 %				2260.33
	TOTAL				17329.21

14.4	Excavation including refilling as required	cum	24.00	546.00	13104.00
	Cost for 100 Meters				30433.21
	Rate per Meter				304.33
	Say				304.00

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 (Rs.)
	MATERIALS				
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5 = 874 + 44 (Wastage@ 5%) = 918 Nos	each	918.00	4.00	3672.00
2946	Fine sand	cum	5.00	806.00	4030.00
	Total cost of materials				7702.00
	Cartage @ 1 % of A1				77.02
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	14.00	553.00	7742.00
	TOTAL				16530.52
	Add 12% GST (MF = 0.1405)				2322.54
	TOTAL				18853.06
	OVERHEADS & PROFIT @ 15 %				2827.96
	TOTAL				21681.02
14.4	Excavation including refilling as required	cum	24.00	546.00	13104.00
	Cost for 100 Meters				34785.02
	Rate per Meter				347.85
	Say				348.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	2.00	673.00	1346.00
1007	Khallasi	day	7.00	553.00	3871.00

TOTAL	5217.00
Add 12% GST (MF = 0.1405)	732.99
TOTAL	5949.99
OVERHEADS & PROFIT @ 15 %	892.50
Cost for 100 Meters	6842.49
Rate per Meter	68.42
Say	68.50

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 (Rs.)
	LABOUR				
1001	Wireman	day	2.50	673.00	1682.50
1007	Khallasi	day	13.00	553.00	7189.00
	TOTAL				8871.50
	Add 12% GST (MF = 0.1405)				1246.45
	TOTAL				10117.95
	OVERHEADS & PROFIT @ 15 %				1517.69
	Cost for 100 Meters				11635.64
	Rate per Meter				116.36
	Say				116.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	6.00	553.00	3318.00
	TOTAL				4327.50
	Add 12% GST (MF = 0.1405)				608.01
	TOTAL				4935.51
	OVERHEADS & PROFIT @ 15 %				740.33
	Cost for 100 Meters				5675.84
	Rate per Meter				56.76
	Say				57.00

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 (Rs.)
	LABOUR				
1001	Wireman	day	1.50	673.00	1009.50
1007	Khallasi	day	12.00	553.00	6636.00
	TOTAL				7645.50
	Add 12% GST (MF = 0.1405)				1074.19
	TOTAL				8719.69
	OVERHEADS & PROFIT @ 15 %				1307.95
	Cost for 100 Meters				10027.64
	Rate per Meter				100.28
	Say				100.00

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 (Rs.)
MATERIALS					
2101	Brass compression gland (19 mm) for 2 X 6 sq. mm 1.1 KV grade cable	set	1.00	26.00	26.00
2201	Aluminium lugs for 6 sq. mm cable	each	2.00	1.00	2.00
	Total cost of materials				28.00
	Cartage @ 1 % of A1				0.28
LABOUR					
1002	Cable jointer	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				150.88
	Add 12% GST (MF = 0.1405)				21.20
	TOTAL				172.08
	OVERHEADS & PROFIT @ 15 %				25.81
	TOTAL				197.89
	Rate per Set				197.89
	Say				198.00

9.1.2 2 X 10 sq. mm (19mm)

Details of cost for 1 Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2102	Brass compression gland (19 mm) for 2 X 10 sq. mm 1.1 KV grade cable	=set	1.00	26.00	26.00
2202	Aluminium lugs for 10 sq. mm cable	each	2.00	1.00	2.00
	Total cost of materials				28.00
	Cartage @ 1 % of A1				0.28
LABOUR					
1002	Cable jointer	day	0.10	673.00	67.30

1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				150.88
	Add 12% GST (MF = 0.1405)				21.20
	TOTAL				172.08
	OVERHEADS & PROFIT @ 15 %				25.81
	TOTAL				197.89
	Rate per Set				197.89
	Say				198.00

9.1.3 2 X 16 sq. mm (22mm)

Details of cost for 1 Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2103	Brass compression gland for (22 mm) 2 X 16 sq. mm 1.1 KV grade cable	set	1.00	35.00	35.00
2203	Aluminium lugs for 16 sq. mm cable	each	2.00	2.00	4.00
	Total cost of materials				39.00
	Cartage @ 1 % of A1				0.39
	LABOUR				
1002	Cable jointer	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				161.99
	Add 12% GST (MF = 0.1405)				22.76
	TOTAL				184.75
	OVERHEADS & PROFIT @ 15 %				27.71
	TOTAL				212.46
	Rate per Set				212.46
	Say				212.00

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	35.00	35.00

2204	Aluminium lugs for 25 sq. mm cable	each	2.00	2.00	4.00
	Total cost of materials				39.00
	Cartage @ 1 % of A1				0.39
	LABOUR				
1002	Cable jointer	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				161.99
	Add 12% GST (MF = 0.1405)				22.76
	TOTAL				184.75
	OVERHEADS & PROFIT @ 15 %				27.71
	TOTAL				212.46
	Rate per Set				212.46
	Say				212.00

9.1.5 2 X 35 sq. mm (25mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2105	Brass compression gland for (25 mm) 2 X 35 sq. mm 1.1 KV grade cable	set	1.00	40.00	40.00
2205	Aluminium lugs for 35 sq. mm cable	each	2.00	3.00	6.00
	Total cost of materials				46.00
	Cartage @ 1 % of A1				0.46
	LABOUR				
1002	Cable jointer	day	0.12	673.00	80.76
1007	Khallasi	day	0.12	553.00	66.36
	TOTAL				193.58
	Add 12% GST (MF = 0.1405)				27.20
	TOTAL				220.78
	OVERHEADS & PROFIT @ 15 %				33.12
	TOTAL				253.90
	Rate per Set				253.90
	Say				254.00

9.1.6 2 X 50 sq. mm (28mm)
Details of cost for 1 Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2106	Brass compression gland for (28 mm) 2 X 50 sq. mm 1.1 KV grade cable	set	1.00	59.00	59.00
2206	Aluminium lugs for 50 sq. mm cable	each	2.00	4.00	8.00
	Total cost of materials				67.00
	Cartage @ 1 % of A1				0.67
	LABOUR				
1002	Cable jointer	day	0.12	673.00	80.76
1007	Khallasi	day	0.12	553.00	66.36
	TOTAL				214.79
	Add 12% GST (MF = 0.1405)				30.18
	TOTAL				244.97
	OVERHEADS & PROFIT @ 15 %				36.75
	TOTAL				281.72
	Rate per Set				281.72
	Say				282.00

9.1.7 3 X 10 sq. mm (22mm)
Details of cost for 1 Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2107	Brass compression gland for (22 mm) 3 X 10 sq. mm 1.1 KV grade cable	set	1.00	35.00	35.00
2202	Aluminium lugs for 10 sq. mm cable	each	3.00	1.00	3.00
	Total cost of materials				38.00
	Cartage @ 1 % of A1				0.38
	LABOUR				
1002	Cable jointer	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				160.98
	Add 12% GST (MF = 0.1405)				22.62
	TOTAL				183.60
	OVERHEADS & PROFIT @ 15 %				27.54
	TOTAL				211.14
	Rate per Set				211.14
	Say				211.00

9.1.8 3 X 16 sq. mm (25mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2108	Brass compression gland for (25 mm) 3 X 16 sq. mm 1.1 KV grade cable	set	1.00	40.00	40.00
2203	Aluminium lugs for 16 sq. mm cable	each	3.00	2.00	6.00
Total cost of materials					46.00
Cartage @ 1 % of A1					0.46
LABOUR					
1002	Cable jointer	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					169.06
Add 12% GST (MF = 0.1405)					23.75
TOTAL					192.81
OVERHEADS & PROFIT @ 15 %					28.92
TOTAL					221.73
Rate per Set					221.73
Say					222.00

9.1.9 3 X 25 sq. mm (25mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2109	Brass compression gland for (25 mm) 3 X 25 sq. mm 1.1 KV grade cable	set	1.00	40.00	40.00
2204	Aluminium lugs for 25 sq. mm cable	each	3.00	2.00	6.00
Total cost of materials					46.00
Cartage @ 1 % of A1					0.46
LABOUR					
1002	Cable jointer	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					169.06
Add 12% GST (MF = 0.1405)					23.75
TOTAL					192.81
OVERHEADS & PROFIT @ 15 %					28.92
TOTAL					221.73
Rate per Set					221.73
Say					222.00

9.1.10 3 X 35 sq. mm (28mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2110	Brass compression gland for (28 mm) 3 X 35 sq. mm 1.1 KV grade cable	set	1.00	59.00	59.00
2205	Aluminium lugs for 35 sq. mm cable	each	3.00	3.00	9.00
Total cost of materials					68.00
Cartage @ 1 % of A1					0.68
LABOUR					
1002	Cable jointer	day	0.12	673.00	80.76
1007	Khallasi	day	0.12	553.00	66.36
TOTAL					215.80
Add 12% GST (MF = 0.1405)					30.32
TOTAL					246.12
OVERHEADS & PROFIT @ 15 %					36.92
TOTAL					283.04
Rate per Set					283.04
Say					283.00

9.1.11 3 X 50 sq. mm (32mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2111	Brass compression gland for (32 mm) 3 X 50 sq. mm 1.1 KV grade cable	set	1.00	70.00	70.00
2206	Aluminium lugs for 50 sq. mm cable	each	3.00	4.00	12.00
Total cost of materials					82.00
Cartage @ 1 % of A1					0.82
LABOUR					
1002	Cable jointer	day	0.12	673.00	80.76
1007	Khallasi	day	0.12	553.00	66.36
TOTAL					229.94
Add 12% GST (MF = 0.1405)					32.31
TOTAL					262.25
OVERHEADS & PROFIT @ 15 %					39.34
TOTAL					301.59
Rate per Set					301.59
Say					302.00

9.1.12 3 X 70 sq. mm (35mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2112	Brass compression gland for (35 mm) 3 X 70 sq. mm 1.1 KV grade cable	set	1.00	89.00	89.00
2207	Aluminium lugs for 70 sq. mm cable	each	3.00	7.00	21.00
Total cost of materials					110.00
Cartage @ 1 % of A1					1.10
LABOUR					
1002	Cable jointer	day	0.12	673.00	80.76
1007	Khallasi	day	0.12	553.00	66.36
TOTAL					258.22
Add 12% GST (MF = 0.1405)					36.28
TOTAL					294.50
OVERHEADS & PROFIT @ 15 %					44.17
TOTAL					338.67
Rate per Set					338.67
Say					339.00

9.1.13 3 X 95 sq. mm (38mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2113	Brass compression gland for (38 mm) 3 X 95 sq. mm 1.1 KV grade cable	set	1.00	108.00	108.00
2208	Aluminium lugs for 95 sq. mm cable	each	3.00	8.00	24.00
Total cost of materials					132.00
Cartage @ 1 % of A1					1.32
LABOUR					
1002	Cable jointer	day	0.16	673.00	107.68
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					329.48
Add 12% GST (MF = 0.1405)					46.29
TOTAL					375.77
OVERHEADS & PROFIT @ 15 %					56.37
TOTAL					432.14
Rate per Set					432.14
Say					432.00

9.1.14 3 X 120 sq. mm (45mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2114	Brass compression gland for (45 mm) 3 X 120 sq. mm 1.1 KV grade cable	set	1.00	135.00	135.00
2209	Aluminium lugs for 120 sq. mm cable	each	3.00	11.00	33.00
Total cost of materials					168.00
Cartage @ 1 % of A1					1.68
LABOUR					
1002	Cable jointer	day	0.16	673.00	107.68
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					365.84
Add 12% GST (MF = 0.1405)					51.40
TOTAL					417.24
OVERHEADS & PROFIT @ 15 %					62.59
TOTAL					479.83
Rate per Set					479.83
Say					480.00

9.1.15 3 X 150 sq. mm (50mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2115	Brass compression gland for (50 mm) 3 X 150 sq. mm 1.1 KV grade cable	set	1.00	172.00	172.00
2210	Aluminium lugs for 150 sq. mm cable	each	3.00	15.00	45.00
Total cost of materials					217.00
Cartage @ 1 % of A1					2.17
LABOUR					
1002	Cable jointer	day	0.16	673.00	107.68
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					415.33
Add 12% GST (MF = 0.1405)					58.35
TOTAL					473.68
OVERHEADS & PROFIT @ 15 %					71.05
TOTAL					544.73
Rate per Set					544.73
Say					545.00

9.1.16 3 X 185 sq. mm (57mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2116	Brass compression gland for (57 mm) 3 X 185 sq. mm 1.1 KV grade cable	set	1.00	222.00	222.00
2211	Aluminium lugs for 185 sq. mm cable	each	3.00	19.00	57.00
Total cost of materials					279.00
Cartage @ 1 % of A1					2.79
LABOUR					
1002	Cable jointer	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					526.99
Add 12% GST (MF = 0.1405)					74.04
TOTAL					601.03
OVERHEADS & PROFIT @ 15 %					90.15
TOTAL					691.18
Rate per Set					691.18
Say					691.00

9.1.17 3 X 225 sq. mm (62mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2117	Brass compression gland for (62 mm) 3 X 225 sq. mm 1.1 KV grade cable	set	1.00	264.00	264.00
2212	Aluminium lugs for 225 sq. mm cable	each	3.00	27.00	81.00
Total cost of materials					345.00
Cartage @ 1 % of A1					3.45
LABOUR					
1002	Cable jointer	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					593.65
Add 12% GST (MF = 0.1405)					83.41
TOTAL					677.06
OVERHEADS & PROFIT @ 15 %					101.56
TOTAL					778.62
Rate per Set					778.62
Say					779.00

9.1.18 3 X 240 sq. mm (62mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2118	Brass compression gland for (62 mm) 3 X 240 sq. mm 1.1 KV grade cable	set	1.00	264.00	264.00
2213	Aluminium lugs for 240 sq. mm cable	each	3.00	31.00	93.00
Total cost of materials					357.00
Cartage @ 1 % of A1					3.57
LABOUR					
1002	Cable jointer	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					605.77
Add 12% GST (MF = 0.1405)					85.11
TOTAL					690.88
OVERHEADS & PROFIT @ 15 %					103.63
TOTAL					794.51
Rate per Set					794.51
Say					795.00

9.1.19 3 X 300 sq. mm (70mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2119	Brass compression gland for (70 mm) 3 X 300 sq. mm 1.1 KV grade cable	set	1.00	314.00	314.00
2214	Aluminium lugs for 300 sq. mm cable	each	3.00	45.00	135.00
Total cost of materials					449.00
Cartage @ 1 % of A1					4.49
LABOUR					
1002	Cable jointer	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					698.69
Add 12% GST (MF = 0.1405)					98.17
TOTAL					796.86
OVERHEADS & PROFIT @ 15 %					119.53
TOTAL					916.39
Rate per Set					916.39
Say					916.00

9.1.20 3½ X 25 sq. mm (28mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2120	Brass compression gland for (28 mm) 3½ X 25 sq. mm 1.1 KV grade cable	set	1.00	59.00	59.00
2204	Aluminium lugs for 25 sq. mm cable	each	3.00	2.00	6.00
2203	Aluminium lugs for 16 sq. mm cable	each	1.00	2.00	2.00
Total cost of materials					67.00
Cartage @ 1 % of A1					0.67
LABOUR					
1002	Cable jointer	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					190.27
Add 12% GST (MF = 0.1405)					26.73
TOTAL					217.00
OVERHEADS & PROFIT @ 15 %					32.55
TOTAL					249.55
Rate per Set					249.55
Say					250.00

9.1.21 3½ X 35 sq. mm (32mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2121	Brass compression gland for (32 mm) 3½ X 35 sq. mm 1.1 KV grade cable	set	1.00	70.00	70.00
2205	Aluminium lugs for 35 sq. mm cable	each	3.00	3.00	9.00
2204	Aluminium lugs for 25 sq. mm cable	each	1.00	2.00	2.00
Total cost of materials					81.00
Cartage @ 1 % of A1					0.81
LABOUR					
1002	Cable jointer	day	0.12	673.00	80.76
1007	Khallasi	day	0.12	553.00	66.36
TOTAL					228.93

Add 12% GST (MF = 0.1405)	32.16
TOTAL	261.09
OVERHEADS & PROFIT @ 15 %	39.16
TOTAL	300.25
Rate per Set	300.25
Say	300.00

9.1.22 3½ X 50 sq. mm (35mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2122	Brass compression gland for (35 mm) 3½ X 50 sq. mm 1.1 KV grade cable	set	1.00	89.00	89.00
2206	Aluminium lugs for 50 sq. mm cable	each	3.00	4.00	12.00
2204	Aluminium lugs for 25 sq. mm cable	each	1.00	2.00	2.00
	Total cost of materials				103.00
	Cartage @ 1 % of A1				1.03
LABOUR					
1002	Cable jointer	day	0.12	673.00	80.76
1007	Khallasi	day	0.12	553.00	66.36
	TOTAL				251.15
	Add 12% GST (MF = 0.1405)				35.29
	TOTAL				286.44
	OVERHEADS & PROFIT @ 15 %				42.97
	TOTAL				329.41
	Rate per Set				329.41
	Say				329.00

9.1.23 3½ X 70 sq. mm (38mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2123	Brass compression gland for (38 mm) 3½ X 70 sq. mm 1.1 KV grade cable	set	1.00	108.00	108.00
2207	Aluminium lugs for 70 sq. mm cable	each	3.00	7.00	21.00

2205	Aluminium lugs for 35 sq. mm cable	each	1.00	3.00	3.00
	Total cost of materials				132.00
	Cartage @ 1 % of A1				1.32
	LABOUR				
1002	Cable jointer	day	0.12	673.00	80.76
1007	Khallasi	day	0.12	553.00	66.36
	TOTAL				280.44
	Add 12% GST (MF = 0.1405)				39.40
	TOTAL				319.84
	OVERHEADS & PROFIT @ 15 %				47.98
	TOTAL				367.82
	Rate per Set				367.82
	Say				368.00

9.1.24 3½ X 95 sq. mm (45mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2124	Brass compression gland for (45 mm) 3½ X 95 sq. mm 1.1 KV grade cable	set	1.00	135.00	135.00
2208	Aluminium lugs for 95 sq. mm cable	each	3.00	8.00	24.00
2206	Aluminium lugs for 50 sq. mm cable	each	1.00	4.00	4.00
	Total cost of materials				163.00
	Cartage @ 1 % of A1				1.63
	LABOUR				
1002	Cable jointer	day	0.16	673.00	107.68
1007	Khallasi	day	0.16	553.00	88.48
	TOTAL				360.79
	Add 12% GST (MF = 0.1405)				50.69
	TOTAL				411.48
	OVERHEADS & PROFIT @ 15 %				61.72
	TOTAL				473.20
	Rate per Set				473.20
	Say				473.00

9.1.25 3½ X 120 sq. mm (45mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2125	Brass compression gland for (45 mm) 3½ X 120 sq. mm 1.1 KV grade cable	set	1.00	135.00	135.00
2209	Aluminium lugs for 120 sq. mm cable	each	3.00	11.00	33.00
2207	Aluminium lugs for 70 sq. mm cable	each	1.00	7.00	7.00
Total cost of materials					175.00
Cartage @ 1 % of A1					1.75
LABOUR					
1002	Cable jointer	day	0.16	673.00	107.68
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					372.91
Add 12% GST (MF = 0.1405)					52.39
TOTAL					425.30
OVERHEADS & PROFIT @ 15 %					63.80
TOTAL					489.10
Rate per Set					489.10
Say					489.00

9.1.26 3½ X 150 sq. mm (50mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2126	Brass compression gland for (50 mm) 3½ X 150 sq. mm 1.1 KV grade cable	set	1.00	172.00	172.00
2210	Aluminium lugs for 150 sq. mm cable	each	3.00	15.00	45.00
2208	Aluminium lugs for 95 sq. mm cable	each	1.00	8.00	8.00
Total cost of materials					225.00
Cartage @ 1 % of A1					2.25
LABOUR					
1002	Cable jointer	day	0.16	673.00	107.68
1007	Khallasi	day	0.16	553.00	88.48
TOTAL					423.41
Add 12% GST (MF = 0.1405)					59.49
TOTAL					482.90

OVERHEADS & PROFIT @ 15 %	72.43
TOTAL	555.33
Rate per Set	555.33
Say	555.00

9.1.27 3½ X 185 sq. mm (57mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2127	Brass compression gland for (57 mm) 3½ X 185 sq. mm 1.1 KV grade cable	set	1.00	222.00	222.00
2211	Aluminium lugs for 185 sq. mm cable	each	3.00	19.00	57.00
2208	Aluminium lugs for 95 sq. mm cable	each	1.00	8.00	8.00
	Total cost of materials				287.00
	Cartage @ 1 % of A1				2.87
LABOUR					
1002	Cable jointer	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				535.07
	Add 12% GST (MF = 0.1405)				75.18
	TOTAL				610.25
	OVERHEADS & PROFIT @ 15 %				91.54
	TOTAL				701.79
	Rate per Set				701.79
	Say				702.00

9.1.28 3½ X 225 sq. mm (62mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2128	Brass compression gland for (62 mm) 3½ X 225 sq. mm 1.1 KV grade cable	set	1.00	264.00	264.00
2212	Aluminium lugs for 225 sq. mm cable	each	3.00	27.00	81.00
2209	Aluminium lugs for 120 sq. mm cable	each	1.00	11.00	11.00
	Total cost of materials				356.00
	Cartage @ 1 % of A1				3.56

LABOUR					
1002	Cable jointer	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					604.76
Add 12% GST (MF = 0.1405)					84.97
TOTAL					689.73
OVERHEADS & PROFIT @ 15 %					103.46
TOTAL					793.19
Rate per Set					793.19
Say					793.00

9.1.29 3½ X 240 sq. mm (62mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2129	Brass compression gland for (62 mm) 3½ X 240 sq. mm 1.1 KV grade cable	set	1.00	264.00	264.00
2213	Aluminium lugs for 240 sq. mm cable	each	3.00	31.00	93.00
2209	Aluminium lugs for 120 sq. mm cable	each	1.00	11.00	11.00
Total cost of materials					368.00
Cartage @ 1 % of A1					3.68
LABOUR					
1002	Cable jointer	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					616.88
Add 12% GST (MF = 0.1405)					86.67
TOTAL					703.55
OVERHEADS & PROFIT @ 15 %					105.53
TOTAL					809.08
Rate per Set					809.08
Say					809.00

9.1.30 3½ X 300 sq. mm (70mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2130	Brass compression gland for (70 mm) 3½ X 300 sq. mm 1.1 KV grade cable	set	1.00	314.00	314.00

2214	Aluminium lugs for 300 sq. mm cable	each	3.00	45.00	135.00
2210	Aluminium lugs for 150 sq. mm cable	each	1.00	15.00	15.00
	Total cost of materials				464.00
	Cartage @ 1 % of A1				4.64
	LABOUR				
1002	Cable jointer	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				713.84
	Add 12% GST (MF = 0.1405)				100.29
	TOTAL				814.13
	OVERHEADS & PROFIT @ 15 %				122.12
	TOTAL				936.25
	Rate per Set				936.25
	Say				936.00

9.1.31 3½ X 400 sq. mm (82mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2131	Brass compression gland for (82 mm) 3½ X 400 sq. mm 1.1 KV grade cable	set	1.00	448.00	448.00
2215	Aluminium lugs for 400 sq. mm cable	each	3.00	65.00	195.00
2212	Aluminium lugs for 225 sq. mm cable	each	1.00	27.00	27.00
	Total cost of materials				670.00
	Cartage @ 1 % of A1				6.70
	LABOUR				
1002	Cable jointer	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				921.90
	Add 12% GST (MF = 0.1405)				129.53
	TOTAL				1051.43
	OVERHEADS & PROFIT @ 15 %				157.71
	TOTAL				1209.14
	Rate per Set				1209.14
	Say				1209.00

9.1.32 4 X 10 sq. mm (25mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2132	Brass compression gland for (25 mm) 4 X 10 sq. mm 1.1 KV grade cable	set	1.00	40.00	40.00
2202	Aluminium lugs for 10 sq. mm cable	each	4.00	1.00	4.00
Total cost of materials					44.00
Cartage @ 1 % of A1					0.44
LABOUR					
1002	Cable jointer	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					167.04
Add 12% GST (MF = 0.1405)					23.47
TOTAL					190.51
OVERHEADS & PROFIT @ 15 %					28.58
TOTAL					219.09
Rate per Set					219.09
Say					219.00

9.1.33 4 X 16 sq. mm (28mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2133	Brass compression gland for (28 mm) 4 X 16 sq. mm 1.1 KV grade cable	set	1.00	59.00	59.00
2203	Aluminium lugs for 16 sq. mm cable	each	4.00	2.00	8.00
Total cost of materials					67.00
Cartage @ 1 % of A1					0.67
LABOUR					
1002	Cable jointer	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
TOTAL					190.27
Add 12% GST (MF = 0.1405)					26.73
TOTAL					217.00

OVERHEADS & PROFIT @ 15 %	32.55
TOTAL	249.55
Rate per Set	249.55
Say	250.00

9.1.34 4 X 25 sq. mm (28mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2134	Brass compression gland for (28 mm) 4 X 25 sq. mm 1.1 KV grade cable	set	1.00	59.00	59.00
2204	Aluminium lugs for 25 sq. mm cable	each	4.00	2.00	8.00
	Total cost of materials				67.00
	Cartage @ 1 % of A1				0.67
LABOUR					
1002	Cable jointer	day	0.10	673.00	67.30
1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				190.27
	Add 12% GST (MF = 0.1405)				26.73
	TOTAL				217.00
	OVERHEADS & PROFIT @ 15 %				32.55
	TOTAL				249.55
	Rate per Set				249.55
	Say				250.00

9.1.35 4 X 35 sq. mm (32mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2135	Brass compression gland for (32 mm) 4 X 35 sq. mm 1.1 KV grade cable	set	1.00	70.00	70.00
2205	Aluminium lugs for 35 sq. mm cable	each	4.00	3.00	12.00
	Total cost of materials				82.00
	Cartage @ 1 % of A1				0.82
LABOUR					
1002	Cable jointer	day	0.12	673.00	80.76

1007	Khallasi	day	0.12	553.00	66.36
	TOTAL				229.94
	Add 12% GST (MF = 0.1405)				32.31
	TOTAL				262.25
	OVERHEADS & PROFIT @ 15 %				39.34
	TOTAL				301.59
	Rate per Set				301.59
	Say				302.00

9.1.36 4 X 50 sq. mm (35mm)**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2136	Brass compression gland for (35 mm) 4 X 50 sq. mm 1.1 KV grade cable	set	1.00	89.00	89.00
2206	Aluminium lugs for 50 sq. mm cable	each	4.00	4.00	16.00
	Total cost of materials				105.00
	Cartage @ 1 % of A1				1.05
	LABOUR				
1002	Cable jointer	day	0.12	673.00	80.76
1007	Khallasi	day	0.12	553.00	66.36
	TOTAL				253.17
	Add 12% GST (MF = 0.1405)				35.57
	TOTAL				288.74
	OVERHEADS & PROFIT @ 15 %				43.31
	TOTAL				332.05
	Rate per Set				332.05
	Say				332.00

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 (Rs.)
	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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					937.75
Add 12% GST (MF = 0.1405)					131.75
TOTAL					1069.50
OVERHEADS & PROFIT @ 15 %					160.43
TOTAL					1229.93
Rate per Set					1229.93
Say					1230.00

9.2.2 2 X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1014.51
Add 12% GST (MF = 0.1405)					142.54
TOTAL					1157.05
OVERHEADS & PROFIT @ 15 %					173.56
TOTAL					1330.61
Rate per Set					1330.61
Say					1331.00

9.2.3 2 X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1014.51
Add 12% GST (MF = 0.1405)					142.54
TOTAL					1157.05
OVERHEADS & PROFIT @ 15 %					173.56
TOTAL					1330.61
Rate per Set					1330.61
Say					1331.00

9.2.4 2 X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1014.51
Add 12% GST (MF = 0.1405)					142.54
TOTAL					1157.05
OVERHEADS & PROFIT @ 15 %					173.56
TOTAL					1330.61
Rate per Set					1330.61
Say					1331.00

9.2.5 3 X 16 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1014.51
Add 12% GST (MF = 0.1405)					142.54
TOTAL					1157.05
OVERHEADS & PROFIT @ 15 %					173.56
TOTAL					1330.61
Rate per Set					1330.61
Say					1331.00

9.2.6 3 X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1014.51
Add 12% GST (MF = 0.1405)					142.54
TOTAL					1157.05
OVERHEADS & PROFIT @ 15 %					173.56
TOTAL					1330.61
Rate per Set					1330.61
Say					1331.00

9.2.7 3 X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1014.51
	Add 12% GST (MF = 0.1405)				142.54
	TOTAL				1157.05
	OVERHEADS & PROFIT @ 15 %				173.56
	TOTAL				1330.61
	Rate per Set				1330.61
	Say				1331.00

9.2.8 3 X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1085.21
	Add 12% GST (MF = 0.1405)				152.47
	TOTAL				1237.68

OVERHEADS & PROFIT @ 15 %	185.65
TOTAL	1423.33
Rate per Set	1423.33
Say	1423.00

9.2.9 3 X 70 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1085.21
	Add 12% GST (MF = 0.1405)				152.47
	TOTAL				1237.68
	OVERHEADS & PROFIT @ 15 %				185.65
	TOTAL				1423.33
	Rate per Set				1423.33
	Say				1423.00

9.2.10 3 X 95 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09

1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				1291.36
	Add 12% GST (MF = 0.1405)				181.44
	TOTAL				1472.80
	OVERHEADS & PROFIT @ 15 %				220.92
	TOTAL				1693.72
	Rate per Set				1693.72
	Say				1694.00

9.2.11 3 X 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				1291.36
	Add 12% GST (MF = 0.1405)				181.44
	TOTAL				1472.80
	OVERHEADS & PROFIT @ 15 %				220.92
	TOTAL				1693.72
	Rate per Set				1693.72
	Say				1694.00

9.2.12 3 X 150 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					1291.36
Add 12% GST (MF = 0.1405)					181.44
TOTAL					1472.80
OVERHEADS & PROFIT @ 15 %					220.92
TOTAL					1693.72
Rate per Set					1693.72
Say					1694.00

9.2.13 3 X 185 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					1743.84
Add 12% GST (MF = 0.1405)					245.01
TOTAL					1988.85
OVERHEADS & PROFIT @ 15 %					298.33
TOTAL					2287.18
Rate per Set					2287.18
Say					2287.00

9.2.14 3 X 225 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					1743.84
Add 12% GST (MF = 0.1405)					245.01
TOTAL					1988.85
OVERHEADS & PROFIT @ 15 %					298.33
TOTAL					2287.18
Rate per Set					2287.18
Say					2287.00

9.2.15 3 X 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					2024.62
Add 12% GST (MF = 0.1405)					284.46
TOTAL					2309.08
OVERHEADS & PROFIT @ 15 %					346.36
TOTAL					2655.44
Rate per Set					2655.44
Say					2655.00

9.2.16 3 X 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2024.62
	Add 12% GST (MF = 0.1405)				284.46
	TOTAL				2309.08
	OVERHEADS & PROFIT @ 15 %				346.36
	TOTAL				2655.44
	Rate per Set				2655.44
	Say				2655.00

9.2.17 3½ X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1014.51
	Add 12% GST (MF = 0.1405)				142.54
	TOTAL				1157.05
	OVERHEADS & PROFIT @ 15 %				173.56
	TOTAL				1330.61
	Rate per Set				1330.61
	Say				1331.00

9.2.18 3½ X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1085.21
	Add 12% GST (MF = 0.1405)				152.47
	TOTAL				1237.68
	OVERHEADS & PROFIT @ 15 %				185.65
	TOTAL				1423.33
	Rate per Set				1423.33
	Say				1423.00

9.2.19 3½ X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1085.21
	Add 12% GST (MF = 0.1405)				152.47

TOTAL	1237.68
OVERHEADS & PROFIT @ 15 %	185.65
TOTAL	1423.33
Rate per Set	1423.33
Say	1423.00

9.2.20 3½ X 70 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1193.28
	Add 12% GST (MF = 0.1405)				167.66
	TOTAL				1360.94
	OVERHEADS & PROFIT @ 15 %				204.14
	TOTAL				1565.08
	Rate per Set				1565.08
	Say				1565.00

9.2.21 3½ X 95 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				1291.36
	Add 12% GST (MF = 0.1405)				181.44
	TOTAL				1472.80
	OVERHEADS & PROFIT @ 15 %				220.92
	TOTAL				1693.72
	Rate per Set				1693.72
	Say				1694.00

9.2.22 3½ X 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				1291.36
	Add 12% GST (MF = 0.1405)				181.44
	TOTAL				1472.80
	OVERHEADS & PROFIT @ 15 %				220.92
	TOTAL				1693.72
	Rate per Set				1693.72
	Say				1694.00

9.2.23 3½ X 150 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					1743.84
Add 12% GST (MF = 0.1405)					245.01
TOTAL					1988.85
OVERHEADS & PROFIT @ 15 %					298.33
TOTAL					2287.18
Rate per Set					2287.18
Say					2287.00

9.2.24 3½ X 185 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					1360.04
Add 12% GST (MF = 0.1405)					191.09
TOTAL					1551.13
OVERHEADS & PROFIT @ 15 %					232.67
TOTAL					1783.80
Rate per Set					1783.80
Say					1784.00

9.2.25 3½ X 225 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2024.62
	Add 12% GST (MF = 0.1405)				284.46
	TOTAL				2309.08
	OVERHEADS & PROFIT @ 15 %				346.36
	TOTAL				2655.44
	Rate per Set				2655.44
	Say				2655.00

9.2.26 3½ X 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2024.62
	Add 12% GST (MF = 0.1405)				284.46
	TOTAL				2309.08
	OVERHEADS & PROFIT @ 15 %				346.36
	TOTAL				2655.44
	Rate per Set				2655.44
	Say				2655.00

9.2.27 3½ X 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				2233.04
	Add 12% GST (MF = 0.1405)				313.74
	TOTAL				2546.78
	OVERHEADS & PROFIT @ 15 %				382.02
	TOTAL				2928.80
	Rate per Set				2928.80
	Say				2929.00

9.2.28 3½ X 400 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				2563.31
	Add 12% GST (MF = 0.1405)				360.15
	TOTAL				2923.46

OVERHEADS & PROFIT @ 15 %	438.52
TOTAL	3361.98
Rate per Set	3361.98
Say	3362.00

9.2.29 4 X 16 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1014.51
	Add 12% GST (MF = 0.1405)				142.54
	TOTAL				1157.05
	OVERHEADS & PROFIT @ 15 %				173.56
	TOTAL				1330.61
	Rate per Set				1330.61
	Say				1331.00

9.2.30 4 X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1014.51
Add 12% GST (MF = 0.1405)					142.54
TOTAL					1157.05
OVERHEADS & PROFIT @ 15 %					173.56
TOTAL					1330.61
Rate per Set					1330.61
Say					1331.00

9.2.31 4 X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1085.21
Add 12% GST (MF = 0.1405)					152.47
TOTAL					1237.68
OVERHEADS & PROFIT @ 15 %					185.65
TOTAL					1423.33
Rate per Set					1423.33
Say					1423.00

9.2.32 4 X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2331	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 50 sq. mm 11 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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1085.21
Add 12% GST (MF = 0.1405)					152.47
TOTAL					1237.68
OVERHEADS & PROFIT @ 15 %					185.65
TOTAL					1423.33
Rate per Set					1423.33
Say					1423.00

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 (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1977.04
Add 12% GST (MF = 0.1405)					277.77
TOTAL					2254.81
OVERHEADS & PROFIT @ 15 %					338.22
TOTAL					2593.03
Rate per Set					2593.03
Say					2593.00

9.3.2 2 X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1977.04
	Add 12% GST (MF = 0.1405)				277.77
	TOTAL				2254.81
	OVERHEADS & PROFIT @ 15 %				338.22
	TOTAL				2593.03
	Rate per Set				2593.03
	Say				2593.00

9.3.3 2 X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1977.04
	Add 12% GST (MF = 0.1405)				277.77
	TOTAL				2254.81

OVERHEADS & PROFIT @ 15 %	338.22
TOTAL	2593.03
Rate per Set	2593.03
Say	2593.00

9.3.4 2 X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				2256.81
	Add 12% GST (MF = 0.1405)				317.08
	TOTAL				2573.89
	OVERHEADS & PROFIT @ 15 %				386.08
	TOTAL				2959.97
	Rate per Set				2959.97
	Say				2960.00

9.3.5 3 X 16 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25

1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				2256.81
	Add 12% GST (MF = 0.1405)				317.08
	TOTAL				2573.89
	OVERHEADS & PROFIT @ 15 %				386.08
	TOTAL				2959.97
	Rate per Set				2959.97
	Say				2960.00

9.3.6 3 X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1977.04
	Add 12% GST (MF = 0.1405)				277.77
	TOTAL				2254.81
	OVERHEADS & PROFIT @ 15 %				338.22
	TOTAL				2593.03
	Rate per Set				2593.03
	Say				2593.00

9.3.7 3 X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1977.04
Add 12% GST (MF = 0.1405)					277.77
TOTAL					2254.81
OVERHEADS & PROFIT @ 15 %					338.22
TOTAL					2593.03
Rate per Set					2593.03
Say					2593.00

9.3.8 3 X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					2256.81
Add 12% GST (MF = 0.1405)					317.08
TOTAL					2573.89
OVERHEADS & PROFIT @ 15 %					386.08
TOTAL					2959.97
Rate per Set					2959.97
Say					2960.00

9.3.9 3 X 70 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					2639.60
Add 12% GST (MF = 0.1405)					370.86
TOTAL					3010.46
OVERHEADS & PROFIT @ 15 %					451.57
TOTAL					3462.03
Rate per Set					3462.03
Say					3462.00

9.3.10 3 X 95 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					2801.31
Add 12% GST (MF = 0.1405)					393.58
TOTAL					3194.89
OVERHEADS & PROFIT @ 15 %					479.23
TOTAL					3674.12
Rate per Set					3674.12
Say					3674.00

9.3.11 3 X 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				3145.72
	Add 12% GST (MF = 0.1405)				441.97
	TOTAL				3587.69
	OVERHEADS & PROFIT @ 15 %				538.15
	TOTAL				4125.84
	Rate per Set				4125.84
	Say				4126.00

9.3.12 3 X 150 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				3145.72
	Add 12% GST (MF = 0.1405)				441.97
	TOTAL				3587.69

OVERHEADS & PROFIT @ 15 %	538.15
TOTAL	4125.84
Rate per Set	4125.84
Say	4126.00

9.3.13 3 X 185 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				3744.65
	Add 12% GST (MF = 0.1405)				526.12
	TOTAL				4270.77
	OVERHEADS & PROFIT @ 15 %				640.62
	TOTAL				4911.39
	Rate per Set				4911.39
	Say				4911.00

9.3.14 3 X 225 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09

1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				4241.57
	Add 12% GST (MF = 0.1405)				595.94
	TOTAL				4837.51
	OVERHEADS & PROFIT @ 15 %				725.63
	TOTAL				5563.14
	Rate per Set				5563.14
	Say				5563.00

9.3.15 3 X 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				4241.57
	Add 12% GST (MF = 0.1405)				595.94
	TOTAL				4837.51
	OVERHEADS & PROFIT @ 15 %				725.63
	TOTAL				5563.14
	Rate per Set				5563.14
	Say				5563.00

9.3.16 3 X 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
TOTAL					5443.83
Add 12% GST (MF = 0.1405)					764.86
TOTAL					6208.69
OVERHEADS & PROFIT @ 15 %					931.30
TOTAL					7139.99
Rate per Set					7139.99
Say					7140.00

9.3.17 3½ X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					2256.81
Add 12% GST (MF = 0.1405)					317.08
TOTAL					2573.89
OVERHEADS & PROFIT @ 15 %					386.08
TOTAL					2959.97
Rate per Set					2959.97
Say					2960.00

9.3.18 3½ X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					2256.81
Add 12% GST (MF = 0.1405)					317.08
TOTAL					2573.89
OVERHEADS & PROFIT @ 15 %					386.08
TOTAL					2959.97
Rate per Set					2959.97
Say					2960.00

9.3.19 3½ X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					2639.60
Add 12% GST (MF = 0.1405)					370.86
TOTAL					3010.46
OVERHEADS & PROFIT @ 15 %					451.57
TOTAL					3462.03
Rate per Set					3462.03
Say					3462.00

9.3.20 3½ X 70 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				2662.83
	Add 12% GST (MF = 0.1405)				374.13
	TOTAL				3036.96
	OVERHEADS & PROFIT @ 15 %				455.54
	TOTAL				3492.50
	Rate per Set				3492.50
	Say				3492.00

9.3.21 3½ X 95 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				3145.72
	Add 12% GST (MF = 0.1405)				441.97
	TOTAL				3587.69

OVERHEADS & PROFIT @ 15 %	538.15
TOTAL	4125.84
Rate per Set	4125.84
Say	4126.00

9.3.22 3½ X 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				3744.65
	Add 12% GST (MF = 0.1405)				526.12
	TOTAL				4270.77
	OVERHEADS & PROFIT @ 15 %				640.62
	TOTAL				4911.39
	Rate per Set				4911.39
	Say				4911.00

9.3.23 3½ X 150 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09

1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				3744.65
	Add 12% GST (MF = 0.1405)				526.12
	TOTAL				4270.77
	OVERHEADS & PROFIT @ 15 %				640.62
	TOTAL				4911.39
	Rate per Set				4911.39
	Say				4911.00

9.3.24 3½ X 185 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				4241.57
	Add 12% GST (MF = 0.1405)				595.94
	TOTAL				4837.51
	OVERHEADS & PROFIT @ 15 %				725.63
	TOTAL				5563.14
	Rate per Set				5563.14
	Say				5563.00

9.3.25 3½ X 225 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					4318.33
Add 12% GST (MF = 0.1405)					606.73
TOTAL					4925.06
OVERHEADS & PROFIT @ 15 %					738.76
TOTAL					5663.82
Rate per Set					5663.82
Say					5664.00

9.3.26 3½ X 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					5235.41
Add 12% GST (MF = 0.1405)					735.58
TOTAL					5970.99
OVERHEADS & PROFIT @ 15 %					895.65
TOTAL					6866.64
Rate per Set					6866.64
Say					6867.00

9.3.27 3½ X 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				6400.30
	Add 12% GST (MF = 0.1405)				899.24
	TOTAL				7299.54
	OVERHEADS & PROFIT @ 15 %				1094.93
	TOTAL				8394.47
	Rate per Set				8394.47
	Say				8394.00

9.3.28 3½ X 400 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				3719.76
	Add 12% GST (MF = 0.1405)				522.63
	TOTAL				4242.39

OVERHEADS & PROFIT @ 15 %	636.36
TOTAL	4878.75
Rate per Set	4878.75
Say	4879.00

9.3.29 4 X 16 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1977.04
	Add 12% GST (MF = 0.1405)				277.77
	TOTAL				2254.81
	OVERHEADS & PROFIT @ 15 %				338.22
	TOTAL				2593.03
	Rate per Set				2593.03
	Say				2593.00

9.3.30 4 X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673.00	168.25

1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				2256.81
	Add 12% GST (MF = 0.1405)				317.08
	TOTAL				2573.89
	OVERHEADS & PROFIT @ 15 %				386.08
	TOTAL				2959.97
	Rate per Set				2959.97
	Say				2960.00

9.3.31 4 X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				2256.81
	Add 12% GST (MF = 0.1405)				317.08
	TOTAL				2573.89
	OVERHEADS & PROFIT @ 15 %				386.08
	TOTAL				2959.97
	Rate per Set				2959.97
	Say				2960.00

9.3.32 4 X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					2639.60
Add 12% GST (MF = 0.1405)					370.86
TOTAL					3010.46
OVERHEADS & PROFIT @ 15 %					451.57
TOTAL					3462.03
Rate per Set					3462.03
Say					3462.00

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 (Rs.)
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	1025.00	1025.00
Total cost of materials					1025.00
Cartage @ 1 % of A1					10.25
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1341.75
Add 12% GST (MF = 0.1405)					188.52
TOTAL					1530.27
OVERHEADS & PROFIT @ 15 %					229.54
TOTAL					1759.81
Rate per Set					1759.81
Say					1760.00

9.4.2 2 X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1025.00	1025.00
	Total cost of materials				1025.00
	Cartage @ 1 % of A1				10.25
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1341.75
	Add 12% GST (MF = 0.1405)				188.52
	TOTAL				1530.27
	OVERHEADS & PROFIT @ 15 %				229.54
	TOTAL				1759.81
	Rate per Set				1759.81
	Say				1760.00

9.4.3 2 X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1025.00	1025.00
	Total cost of materials				1025.00
	Cartage @ 1 % of A1				10.25
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1341.75
	Add 12% GST (MF = 0.1405)				188.52
	TOTAL				1530.27

OVERHEADS & PROFIT @ 15 %	229.54
TOTAL	1759.81
Rate per Set	1759.81
Say	1760.00

9.4.4 2 X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1197.00	1197.00
	Total cost of materials				1197.00
	Cartage @ 1 % of A1				11.97=
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1515.47
	Add 12% GST (MF = 0.1405)				212.92
	TOTAL				1728.39
	OVERHEADS & PROFIT @ 15 %				259.26
	TOTAL				1987.65
	Rate per Set				1987.65
	Say				1988.00

9.4.5 3 X 16 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1025.00	1025.00
	Total cost of materials				1025.00
	Cartage @ 1 % of A1				10.25
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25

1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1341.75
	Add 12% GST (MF = 0.1405)				188.52
	TOTAL				1530.27
	OVERHEADS & PROFIT @ 15 %				229.54
	TOTAL				1759.81
	Rate per Set				1759.81
	Say				1760.00

9.4.6 3 X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	1025.00	1025.00
	Total cost of materials				1025.00
	Cartage @ 1 % of A1				10.25
	LABOUR				
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1341.75
	Add 12% GST (MF = 0.1405)				188.52
	TOTAL				1530.27
	OVERHEADS & PROFIT @ 15 %				229.54
	TOTAL				1759.81
	Rate per Set				1759.81
	Say				1760.00

9.4.7 3 X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	1197.00	1197.00

Total cost of materials					1197.00
Cartage @ 1 % of A1					11.97
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1515.47
Add 12% GST (MF = 0.1405)					212.92
TOTAL					1728.39
OVERHEADS & PROFIT @ 15 %					259.26
TOTAL					1987.65
Rate per Set					1987.65
Say					1988.00

9.4.8 3 X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1197.00	1197.00
Total cost of materials					1197.00
Cartage @ 1 % of A1					11.97
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1515.47
Add 12% GST (MF = 0.1405)					212.92
TOTAL					1728.39
OVERHEADS & PROFIT @ 15 %					259.26
TOTAL					1987.65
Rate per Set					1987.65
Say					1988.00

9.4.9 3 X 70 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1431.00	1431.00
	Total cost of materials				1431.00
	Cartage @ 1 % of A1				14.31
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1751.81
	Add 12% GST (MF = 0.1405)				246.13
	TOTAL				1997.94
	OVERHEADS & PROFIT @ 15 %				299.69
	TOTAL				2297.63
	Rate per Set				2297.63
	Say				2298.00

9.4.10 3 X 95 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1470.00	1470.00
	Total cost of materials				1470.00
	Cartage @ 1 % of A1				14.70
LABOUR					
1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				1889.28
	Add 12% GST (MF = 0.1405)				265.44

TOTAL	2154.72
OVERHEADS & PROFIT @ 15 %	323.21
TOTAL	2477.93
Rate per Set	2477.93
Say	2478.00

9.4.11 3 X 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1682.00	1682.00
	Total cost of materials				1682.00
	Cartage @ 1 % of A1				16.82
LABOUR					
1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2103.40
	Add 12% GST (MF = 0.1405)				295.53
	TOTAL				2398.93
	OVERHEADS & PROFIT @ 15 %				359.84
	TOTAL				2758.77
	Rate per Set				2758.77
	Say				2759.00

9.4.12 3 X 150 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1682.00	1682.00
	Total cost of materials				1682.00
	Cartage @ 1 % of A1				16.82
LABOUR					

1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2103.40
	Add 12% GST (MF = 0.1405)				295.53
	TOTAL				2398.93
	OVERHEADS & PROFIT @ 15 %				359.84
	TOTAL				2758.77
	Rate per Set				2758.77
	Say				2759.00

9.4.13 3 X 185 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	2049.00	2049.00
	Total cost of materials				2049.00
	Cartage @ 1 % of A1				20.49
	LABOUR				
1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2474.07
	Add 12% GST (MF = 0.1405)				347.61
	TOTAL				2821.68
	OVERHEADS & PROFIT @ 15 %				423.25
	TOTAL				3244.93
	Rate per Set				3244.93
	Say				3245.00

9.4.14 3 X 225 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	2354.00	2354.00
	Total cost of materials				2354.00
	Cartage @ 1 % of A1				23.54
	LABOUR				

1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2782.12
	Add 12% GST (MF = 0.1405)				390.89
	TOTAL				3173.01
	OVERHEADS & PROFIT @ 15 %				475.95
	TOTAL				3648.96
	Rate per Set				3648.96
	Say				3649.00

9.4.15 3 X 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	2401.00	2401.00
	Total cost of materials				2401.00
	Cartage @ 1 % of A1				24.01
	LABOUR				
1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2829.59
	Add 12% GST (MF = 0.1405)				397.56
	TOTAL				3227.15
	OVERHEADS & PROFIT @ 15 %				484.07
	TOTAL				3711.22
	Rate per Set				3711.22
	Say				3711.00

9.4.16 3 X 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	2963.00	2963.00

Total cost of materials					2963.00
Cartage @ 1 % of A1					29.63
LABOUR					
1002	Cable jointer	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
TOTAL					3605.63
Add 12% GST (MF = 0.1405)					506.59
TOTAL					4112.22
OVERHEADS & PROFIT @ 15 %					616.83
TOTAL					4729.05
Rate per Set					4729.05
Say					4729.00

9.4.17 3½ X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1197.00	1197.00
Total cost of materials					1197.00
Cartage @ 1 % of A1					11.97
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1515.47
Add 12% GST (MF = 0.1405)					212.92
TOTAL					1728.39
OVERHEADS & PROFIT @ 15 %					259.26
TOTAL					1987.65
Rate per Set					1987.65
Say					1988.00

9.4.18 3½ X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1197.00	1197.00

Total cost of materials					1197.00
Cartage @ 1 % of A1					11.97
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1515.47
Add 12% GST (MF = 0.1405)					212.92
TOTAL					1728.39
OVERHEADS & PROFIT @ 15 %					259.26
TOTAL					1987.65
Rate per Set					1987.65
Say					1988.00

9.4.19 3½ X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1431.00	1431.00
Total cost of materials					1431.00
Cartage @ 1 % of A1					14.31
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1751.81
Add 12% GST (MF = 0.1405)					246.13
TOTAL					1997.94
OVERHEADS & PROFIT @ 15 %					299.69
TOTAL					2297.63
Rate per Set					2297.63
Say					2298.00

9.4.20 3½ X 70 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1470.00	1470.00

Total cost of materials					1470.00
Cartage @ 1 % of A1					14.70
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1791.20
Add 12% GST (MF = 0.1405)					251.66
TOTAL					2042.86
OVERHEADS & PROFIT @ 15 %					306.43
TOTAL					2349.29
Rate per Set					2349.29
Say					2349.00

9.4.21 3½ X 95 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1470.00	1470.00
Total cost of materials					1470.00
Cartage @ 1 % of A1					14.70
LABOUR					
1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
TOTAL					1889.28
Add 12% GST (MF = 0.1405)					265.44
TOTAL					2154.72
OVERHEADS & PROFIT @ 15 %					323.21
TOTAL					2477.93
Rate per Set					2477.93
Say					2478.00

9.4.22 3½ X 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	2049.00	2049.00
	Total cost of materials				2049.00
	Cartage @ 1 % of A1				20.49
LABOUR					
1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2474.07
	Add 12% GST (MF = 0.1405)				347.61
	TOTAL				2821.68
	OVERHEADS & PROFIT @ 15 %				423.25
	TOTAL				3244.93
	Rate per Set				3244.93
	Say				3245.00

9.4.23 3½ X 150 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	2049.00	2049.00
	Total cost of materials				2049.00
	Cartage @ 1 % of A1				20.49
LABOUR					
1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2474.07
	Add 12% GST (MF = 0.1405)				347.61
	TOTAL				2821.68

OVERHEADS & PROFIT @ 15 %	423.25
TOTAL	3244.93
Rate per Set	3244.93
Say	3245.00

9.4.24 3½ X 185 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	2380.00	2380.00
	Total cost of materials				2380.00
	Cartage @ 1 % of A1				23.80
LABOUR					
1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2808.38
	Add 12% GST (MF = 0.1405)				394.58
	TOTAL				3202.96
	OVERHEADS & PROFIT @ 15 %				480.44
	TOTAL				3683.40
	Rate per Set				3683.40
	Say				3683.00

9.4.25 3½ X 225 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	2401.00	2401.00
	Total cost of materials				2401.00
	Cartage @ 1 % of A1				24.01
LABOUR					

1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				2829.59
	Add 12% GST (MF = 0.1405)				397.56
	TOTAL				3227.15
	OVERHEADS & PROFIT @ 15 %				484.07
	TOTAL				3711.22
	Rate per Set				3711.22
	Say				3711.00

9.4.26 3½ X 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	2963.00	2963.00
	Total cost of materials				2963.00
	Cartage @ 1 % of A1				29.63
	LABOUR				
1002	Cable jointer	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
	TOTAL				3397.21
	Add 12% GST (MF = 0.1405)				477.31
	TOTAL				3874.52
	OVERHEADS & PROFIT @ 15 %				581.18
	TOTAL				4455.70
	Rate per Set				4455.70
	Say				4456.00

9.4.27 3½ X 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	3550.00	3550.00

Total cost of materials					3550.00
Cartage @ 1 % of A1					35.50
LABOUR					
1002	Cable jointer	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
TOTAL					4198.50
Add 12% GST (MF = 0.1405)					589.89
TOTAL					4788.39
OVERHEADS & PROFIT @ 15 %					718.26
TOTAL					5506.65
Rate per Set					5506.65
Say					5507.00

9.4.28 3½ X 400 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	4378.00	4378.00
Total cost of materials					4378.00
Cartage @ 1 % of A1					43.78
LABOUR					
1002	Cable jointer	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
TOTAL					5034.78
Add 12% GST (MF = 0.1405)					707.39
TOTAL					5742.17
OVERHEADS & PROFIT @ 15 %					861.32
TOTAL					6603.49
Rate per Set					6603.49
Say					6603.00

9.4.29 4 X 16 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2392	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 16 sq. mm 1.1 KV grade cable	set	1.00	1025.00	1025.00
	Total cost of materials				1025.00
	Cartage @ 1 % of A1				10.25
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1341.75
	Add 12% GST (MF = 0.1405)				188.52
	TOTAL				1530.27
	OVERHEADS & PROFIT @ 15 %				229.54
	TOTAL				1759.81
	Rate per Set				1759.81
	Say				1760.00

9.4.30 4 X 25 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2393	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 25 sq. mm 1.1 KV grade cable	set	1.00	1197.00	1197.00
	Total cost of materials				1197.00
	Cartage @ 1 % of A1				11.97
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1515.47

Add 12% GST (MF = 0.1405)	212.92
TOTAL	1728.39
OVERHEADS & PROFIT @ 15 %	259.26
TOTAL	1987.65
Rate per Set	1987.65
Say	1988.00

9.4.31 4 X 35 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1197.00	1197.00
	Total cost of materials				1197.00
	Cartage @ 1 % of A1				11.97
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1515.47
	Add 12% GST (MF = 0.1405)				212.92
	TOTAL				1728.39
	OVERHEADS & PROFIT @ 15 %				259.26
	TOTAL				1987.65
	Rate per Set				1987.65
	Say				1988.00

9.4.32 4 X 50 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	1431.00	1431.00

Total cost of materials					1431.00
Cartage @ 1 % of A1					14.31
LABOUR					
1002	Cable jointer	day	0.25	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					1751.81
Add 12% GST (MF = 0.1405)					246.13
TOTAL					1997.94
OVERHEADS & PROFIT @ 15 %					299.69
TOTAL					2297.63
Rate per Set					2297.63
Say					2298.00

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 (Rs.)
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					
1002	Cable jointer	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				1460.39
	Add 12% GST (MF = 0.1405)				205.18
	TOTAL				1665.57
	OVERHEADS & PROFIT @ 15 %				249.84
	TOTAL				1915.41
	Rate per Set				1915.41
	Say				1915.00

10.1.2 120 sq. mm

Details of cost for 1 Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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					
1002	Cable jointer	day	0.80	673.00	538.40

1007	Khallasi	day	0.80	553.00	442.40
	TOTAL				1828.19
	Add 12% GST (MF = 0.1405)				256.86
	TOTAL				2085.05
	OVERHEADS & PROFIT @ 15 %				312.76
	TOTAL				2397.81
	Rate per Set				2397.81
	Say				2398.00

10.1.3 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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				
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				2463.25
	Add 12% GST (MF = 0.1405)				346.09
	TOTAL				2809.34
	OVERHEADS & PROFIT @ 15 %				421.40
	TOTAL				3230.74
	Rate per Set				3230.74
	Say				3231.00

10.1.4 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
TOTAL					2508.70
Add 12% GST (MF = 0.1405)					352.47
TOTAL					2861.17
OVERHEADS & PROFIT @ 15 %					429.18
TOTAL					3290.35
Rate per Set					3290.35
Say					3290.00

10.2 Supplying and making outdoor 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 (Rs.)
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					
1002	Cable jointer	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
TOTAL					3514.73
Add 12% GST (MF = 0.1405)					493.82
TOTAL					4008.55
OVERHEADS & PROFIT @ 15 %					601.28
TOTAL					4609.83
Rate per Set					4609.83
Say					4610.00

10.2.2 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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					
1002	Cable jointer	day	0.80	673.00	538.40
1007	Khallasi	day	0.80	553.00	442.40
	TOTAL				3920.91
	Add 12% GST (MF = 0.1405)				550.89
	TOTAL				4471.80
	OVERHEADS & PROFIT @ 15 %				670.77
	TOTAL				5142.57
	Rate per Set				5142.57
	Say				5143.00

10.2.3 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				4554.96
	Add 12% GST (MF = 0.1405)				639.97
	TOTAL				5194.93
	OVERHEADS & PROFIT @ 15 %				779.24
	TOTAL				5974.17
	Rate per Set				5974.17
	Say				5974.00

10.2.4 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				4554.96
	Add 12% GST (MF = 0.1405)				639.97
	TOTAL				5194.93
	OVERHEADS & PROFIT @ 15 %				779.24
	TOTAL				5974.17
	Rate per Set				5974.17
	Say				5974.00

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 (Rs.)
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					
1002	Cable jointer	day	0.80	673.00	538.40

1007	Khallasi	day	0.80	553.00	442.40
	TOTAL				3256.33
	Add 12% GST (MF = 0.1405)				457.51
	TOTAL				3713.84
	OVERHEADS & PROFIT @ 15 %				557.08
	TOTAL				4270.92
	Rate per Set				4270.92
	Say				4271.00

10.3.2 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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				
1002	Cable jointer	day	0.80	673.00	538.40
1007	Khallasi	day	0.80	553.00	442.40
	TOTAL				3721.94
	Add 12% GST (MF = 0.1405)				522.93
	TOTAL				4244.87
	OVERHEADS & PROFIT @ 15 %				636.73
	TOTAL				4881.60
	Rate per Set				4881.60
	Say				4882.00

10.3.3 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
TOTAL					5562.94
Add 12% GST (MF = 0.1405)					781.59
TOTAL					6344.53
OVERHEADS & PROFIT @ 15 %					951.68
TOTAL					7296.21
Rate per Set					7296.21
Say					7296.00

10.3.4 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
TOTAL					6364.88
Add 12% GST (MF = 0.1405)					894.27
TOTAL					7259.15
OVERHEADS & PROFIT @ 15 %					1088.87
TOTAL					8348.02
Rate per Set					8348.02
Say					8348.00

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 (Rs.)
	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	5783.00	5783.00
	Total cost of materials				5783.00
	Cartage @ 1 % of A1				57.83
	LABOUR				
1002	Cable jointer	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				6453.83
	Add 12% GST (MF = 0.1405)				906.76
	TOTAL				7360.59
	OVERHEADS & PROFIT @ 15 %				1104.09
	TOTAL				8464.68
	Rate per Set				8464.68
	Say				8465.00

10.4.2 120 sq. mm

Details of cost for 1 Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	5783.00	5783.00
	Total cost of materials				5783.00
	Cartage @ 1 % of A1				57.83
	LABOUR				
1002	Cable jointer	day	0.80	673.00	538.40
1007	Khallasi	day	0.80	553.00	442.40
	TOTAL				6821.63
	Add 12% GST (MF = 0.1405)				958.44
	TOTAL				7780.07

OVERHEADS & PROFIT @ 15 %	1167.01
TOTAL	8947.08
Rate per Set	8947.08
Say	8947.00

10.4.3 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	7604.00	7604.00
	Total cost of materials				7604.00
	Cartage @ 1 % of A1				76.04
LABOUR					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				8906.04
	Add 12% GST (MF = 0.1405)				1251.30
	TOTAL				10157.34
	OVERHEADS & PROFIT @ 15 %				1523.60
	TOTAL				11680.94
	Rate per Set				11680.94
	Say				11681.00

10.4.4 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	7604.00	7604.00
	Total cost of materials				7604.00
	Cartage @ 1 % of A1				76.04
LABOUR					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00

TOTAL	8906.04
Add 12% GST (MF = 0.1405)	1251.30
TOTAL	10157.34
OVERHEADS & PROFIT @ 15 %	1523.60
TOTAL	11680.94
Rate per Set	11680.94
Say	11681.00

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 (Rs.)
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	10353.00	10353.00
	Total cost of materials				10353.00
	Cartage @ 1 % of A1				103.53
LABOUR					
1002	Cable jointer	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				11069.53
	Add 12% GST (MF = 0.1405)				1555.27
	TOTAL				12624.80
	OVERHEADS & PROFIT @ 15 %				1893.72
	TOTAL				14518.52
	Rate per Set				14518.52
	Say				14519.00

10.5.2 120 sq. mm

Details of cost for 1 Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	10353.00	10353.00

Total cost of materials					10353.00
Cartage @ 1 % of A1					103.53
LABOUR					
1002	Cable jointer	day	0.80	673.00	538.40
1007	Khallasi	day	0.80	553.00	442.40
TOTAL					11437.33
Add 12% GST (MF = 0.1405)					1606.94
TOTAL					13044.27
OVERHEADS & PROFIT @ 15 %					1956.64
TOTAL					15000.91
Rate per Set					15000.91
Say					15001.00

10.5.3 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	11745.00	11745.00
Total cost of materials					11745.00
Cartage @ 1 % of A1					117.45
LABOUR					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
TOTAL					13088.45
Add 12% GST (MF = 0.1405)					1838.93
TOTAL					14927.38
OVERHEADS & PROFIT @ 15 %					2239.11
TOTAL					17166.49
Rate per Set					17166.49
Say					17166.00

10.5.4 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	11745.00	11745.00
	Total cost of materials				11745.00
	Cartage @ 1 % of A1				117.45
LABOUR					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				13088.45
	Add 12% GST (MF = 0.1405)				1838.93
	TOTAL				14927.38
	OVERHEADS & PROFIT @ 15 %				2239.11
	TOTAL				17166.49
	Rate per Set				17166.49
	Say				17166.00

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 (Rs.)
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	11710.00	11710.00
	Total cost of materials				11710.00
	Cartage @ 1 % of A1				117.10
LABOUR					
1002	Cable jointer	day	0.80	673.00	538.40
1007	Khallasi	day	0.80	553.00	442.40
	TOTAL				12807.90
	Add 12% GST (MF = 0.1405)				1799.51

TOTAL	14607.41
OVERHEADS & PROFIT @ 15 %	2191.11
TOTAL	16798.52
Rate per Set	16798.52
Say	16799.00

10.6.2 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	12681.00	12681.00
	Total cost of materials				12681.00
	Cartage @ 1 % of A1				126.81
	LABOUR				
1002	Cable jointer	day	0.80	673.00	538.40
1007	Khallasi	day	0.80	553.00	442.40
	TOTAL				13788.61
	Add 12% GST (MF = 0.1405)				1937.30
	TOTAL				15725.91
	OVERHEADS & PROFIT @ 15 %				2358.89
	TOTAL				18084.80
	Rate per Set				18084.80
	Say				18085.00

10.6.3 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	13366.00	13366.00
	Total cost of materials				13366.00
	Cartage @ 1 % of A1				133.66
	LABOUR				
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				14725.66

Add 12% GST (MF = 0.1405)	2068.96
TOTAL	16794.62
OVERHEADS & PROFIT @ 15 %	2519.19
TOTAL	19313.81
Rate per Set	19313.81
Say	19314.00

10.6.4 300 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	13366.00	13366.00
	Total cost of materials				13366.00
	Cartage @ 1 % of A1				133.66
LABOUR					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				14725.66
	Add 12% GST (MF = 0.1405)				2068.96
	TOTAL				16794.62
	OVERHEADS & PROFIT @ 15 %				2519.19
	TOTAL				19313.81
	Rate per Set				19313.81
	Say				19314.00

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 (Rs.)
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	13637.00	13637.00
	Total cost of materials				13637.00

	Cartage @ 1 % of A1				136.37
	LABOUR				
1002	Cable jointer	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				14386.37
	Add 12% GST (MF = 0.1405)				2021.28
	TOTAL				16407.65
	OVERHEADS & PROFIT @ 15 %				2461.15
	TOTAL				18868.80
	Rate per Set				18868.80
	Say				18869.00

10.7.2 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	18643.00	18643.00
	Total cost of materials				18643.00
	Cartage @ 1 % of A1				186.43
	LABOUR				
1002	Cable jointer	day	0.80	673.00	538.40
1007	Khallasi	day	0.80	553.00	442.40
	TOTAL				19810.23
	Add 12% GST (MF = 0.1405)				2783.34
	TOTAL				22593.57
	OVERHEADS & PROFIT @ 15 %				3389.04
	TOTAL				25982.61
	Rate per Set				25982.61
	Say				25983.00

10.7.3 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	20085.00	20085.00

Total cost of materials					20085.00
Cartage @ 1 % of A1					200.85
LABOUR					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
TOTAL					21511.85
Add 12% GST (MF = 0.1405)					3022.41
TOTAL					24534.26
OVERHEADS & PROFIT @ 15 %					3680.14
TOTAL					28214.40
Rate per Set					28214.40
Say					28214.00

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 (Rs.)
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	20677.00	20677.00
Total cost of materials					20677.00
Cartage @ 1 % of A1					206.77
LABOUR					
1002	Cable jointer	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
TOTAL					21496.77
Add 12% GST (MF = 0.1405)					3020.30
TOTAL					24517.07
OVERHEADS & PROFIT @ 15 %					3677.56
TOTAL					28194.63
Rate per Set					28194.63
Say					28195.00

10.8.2 120 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	24833.00	24833.00
	Total cost of materials				24833.00
	Cartage @ 1 % of A1				248.33
LABOUR					
1002	Cable jointer	day	0.80	673.00	538.40
1007	Khallasi	day	0.80	553.00	442.40
	TOTAL				26062.13
	Add 12% GST (MF = 0.1405)				3661.73
	TOTAL				29723.86
	OVERHEADS & PROFIT @ 15 %				4458.58
	TOTAL				34182.44
	Rate per Set				34182.44
	Say				34182.00

10.8.3 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	27946.00	27946.00
	Total cost of materials				27946.00
	Cartage @ 1 % of A1				279.46
LABOUR					
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				29451.46
	Add 12% GST (MF = 0.1405)				4137.93
	TOTAL				33589.39

OVERHEADS & PROFIT @ 15 %	5038.41
TOTAL	38627.80
Rate per Set	38627.80
Say	38628.00

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 (Rs.)
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	32844.00	32844.00
	Total cost of materials				32844.00
	Cartage @ 1 % of A1				328.44
LABOUR					
1002	Cable jointer	day	0.50	673.00	336.50
1007	Khallasi	day	0.50	553.00	276.50
	TOTAL				33785.44
	Add 12% GST (MF = 0.1405)				4746.85
	TOTAL				38532.29
	OVERHEADS & PROFIT @ 15 %				5779.84
	TOTAL				44312.13
	Rate per Set				44312.13
	Say				44312.00

10.9.2 120 sq. mm

Details of cost for 1 Set

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	41548.00	41548.00
	Total cost of materials				41548.00

	Cartage @ 1 % of A1				415.48
	LABOUR				
1002	Cable jointer	day	0.80	673.00	538.40
1007	Khallasi	day	0.80	553.00	442.40
	TOTAL				42944.28
	Add 12% GST (MF = 0.1405)				6033.67
	TOTAL				48977.95
	OVERHEADS & PROFIT @ 15 %				7346.69
	TOTAL				56324.64
	Rate per Set				56324.64
	Say				56325.00

10.9.3 240 sq. mm**Details of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	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	58191.00	58191.00
	Total cost of materials				58191.00
	Cartage @ 1 % of A1				581.91
	LABOUR				
1002	Cable jointer	day	1.00	673.00	673.00
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				59998.91
	Add 12% GST (MF = 0.1405)				8429.85
	TOTAL				68428.76
	OVERHEADS & PROFIT @ 15 %				10264.31
	TOTAL				78693.07
	Rate per Set				78693.07
	Say				78693.00

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 metre and upto 6.5 metre

Details of cost for one No

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2947	Bricks ballast = 0.44+ 0.02 (wastage@5%) = 0.46 cum	cum	0.46	630.00	289.80
	Total cost of materials				289.80
	Cartage @ 1 % of A1				2.90
	LABOUR				
1010	Mason, Grade 2	day	0.33	612.00	201.96
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	3.66	553.00	2023.98
1013	Bhisti	day	0.16	553.00	88.48
	TOTAL				2829.21
	Add 12% GST (MF = 0.1405)				397.50
	TOTAL				3226.71
	OVERHEADS & PROFIT @ 15 %				484.01
	TOTAL				3710.72
14.4	Excavation including refilling as required	cum	1.07	546.00	584.22
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	6614.00	462.98
	TOTAL				4757.92
	Rate per Each				4757.92
	Say				4758.00

11.1.2 Above 6.5 metre and upto 8.0 metre

Details of cost for one No

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2947	Bricks ballast = 0.57+ 0.03(wastage @5%) = 0.60 cum	cum	0.60	630.00	378.00

Total cost of materials					378.00
Cartage @ 1 % of A1					3.78
LABOUR					
1010	Mason, Grade 2	day	0.33	612.00	201.96
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	4.00	553.00	2212.00
1013	Bhisti	day	0.16	553.00	88.48
TOTAL					3106.31
Add 12% GST (MF = 0.1405)					436.44
TOTAL					3542.75
OVERHEADS & PROFIT @ 15 %					531.41
TOTAL					4074.16
14.4	Excavation including refilling as required	cum	1.36	546.00	742.56
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	6614.00	462.98
TOTAL					5279.70
Rate per Each					5279.70
Say					5280.00

11.1.3 Above 8.0 metre and upto 11.0 metre**Details of cost for one No**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2947	Bricks ballast	cum	0.74	630.00	466.20
	= 0.70+ 0.04 (wastage @5%) = 0.74 cum				
Total cost of materials					466.20
Cartage @ 1 % of A1					4.66
LABOUR					
1010	Mason, Grade 2	day	0.33	612.00	201.96
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	5.00	553.00	2765.00
1013	Bhisti	day	0.16	553.00	88.48
TOTAL					3748.39
Add 12% GST (MF = 0.1405)					526.65
TOTAL					4275.04

OVERHEADS & PROFIT @ 15 %					641.26
TOTAL					4916.30
14.4	Excavation including refilling as required	cum	1.73	546.00	944.58
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	6614.00	462.98
TOTAL					6323.86
Rate per Each					6323.86
Say					6324.00

11.1.4 Above 11.00 metre and upto 13.00 metre

Details of cost for one No

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2947	Bricks ballast = 0.88+ 0.04 (wastage @5%) = 0.92 cum Total cost of materials	cum	0.92	630.00	579.60
Total cost of materials					579.60
Cartage @ 1 % of A1					5.80
LABOUR					
1010	Mason, Grade 2	day	0.33	612.00	201.96
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	5.33	553.00	2947.49
1013	Bhisti	day	0.16	553.00	88.48
TOTAL					4045.42
Add 12% GST (MF = 0.1405)					568.38
TOTAL					4613.80
OVERHEADS & PROFIT @ 15 %					692.07
TOTAL					5305.87
14.4	Excavation including refilling as required	cum	2.15	546.00	1173.90
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.07	6614.00	462.98
TOTAL					6942.75
Rate per Each					6942.75
Say					6943.00

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 (Rs.)
MATERIALS					
2947	Bricks ballast = 0.53+ 0.03 (wastage @5%) = 0.56 cum	cum	0.56	630.00	352.80
2924	Clamps, bolts, nuts etc.	set	1.00	112.00	112.00
Total cost of materials					464.80
Cartage @ 1 % of A1					4.65
LABOUR					
1010	Mason, Grade 2	day	0.33	612.00	201.96
1003	Lineman	day	0.50	673.00	336.50
1007	Khallasi	day	7.50	553.00	4147.50
1013	Bhisti	day	0.16	553.00	88.48
TOTAL					5243.89
Add 12% GST (MF = 0.1405)					736.77
TOTAL					5980.65
OVERHEADS & PROFIT @ 15 %					897.10
TOTAL					6877.75
14.4	Excavation including refilling as required	cum	1.34	546.00	731.64
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.080	6614.00	529.12
TOTAL					8138.51
Rate per Each					8138.51
Say					8139.00

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 metre and upto 6.5 metre****Details of cost for one No**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
LABOUR					
1010	Mason, Grade 2	day	0.33	612.00	201.96
1003	Lineman	day	0.33	673.00	222.09

1007	Khallasi	day	3.00	553.00	1659.00
	TOTAL				2083.05
	Add 12% GST (MF = 0.1405)				292.67
	TOTAL				2375.72
	OVERHEADS & PROFIT @ 15 %				356.36
	TOTAL				2732.08
14.4	Excavation including refilling as required	cum	0.68	546.00	371.28
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.210	6614.00	1388.94
	TOTAL				4492.30
	Rate per Each				4492.30
	Say				4492.00

11.3.2 Above 6.5 metre and upto 8.0 metre

Details of cost for one No

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1010	Mason, Grade 2	day	0.33	612.00	201.96
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	3.33	553.00	1841.49
	TOTAL				2265.54
	Add 12% GST (MF = 0.1405)				318.31
	TOTAL				2583.85
	OVERHEADS & PROFIT @ 15 %				387.58
	TOTAL				2971.43
14.4	Excavation including refilling as required	cum	0.87	546.00	475.02
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.290	6614.00	1918.06
	TOTAL				5364.51
	Rate per Each				5364.51
	Say				5365.00

11.3.3 Above 8.0 metre and upto 11.0 metre**Details of cost for one No**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1010	Mason, Grade 2	day	0.33	612.00	201.96
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	3.66	553.00	2023.98
	TOTAL				2448.03
	Add 12% GST (MF = 0.1405)				343.95
	TOTAL				2791.98
	OVERHEADS & PROFIT @ 15 %				418.80
	TOTAL				3210.78
14.4	Excavation including refilling as required	cum	1.06	546.00	578.76
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.38	6614.00	2513.32
	TOTAL				6302.86
	Rate per Each				6302.86
	Say				6303.00

11.3.4 Above 11.00 metre and upto 13.00 metre**Details of cost for one No**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1010	Mason, Grade 2	day	0.33	612.00	201.96
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	4.00	553.00	2212.00
	TOTAL				2636.05
	Add 12% GST (MF = 0.1405)				370.37
	TOTAL				3006.42
	OVERHEADS & PROFIT @ 15 %				450.96
	TOTAL				3457.38
14.4	Excavation including refilling as required	cum	1.27	546.00	693.42
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.48	6614.00	3174.72
	TOTAL				7325.52
	Rate per Each				7325.52
	Say				7326.00

- 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 (Rs.)
	MATERIALS				
2924	Clamps, bolts, nuts etc.	set	1.00	112.00	112.00
	Total cost of materials				112.00
	Cartage @ 1 % of A1				1.12
	LABOUR				
1010	Mason, Grade 2	day	0.33	612.00	201.96
1003	Lineman	day	0.50	673.00	336.50
1007	Khallasi	day	5.50	553.00	3041.50
	TOTAL				3693.08
	Add 12% GST (MF = 0.1405)				518.88
	TOTAL				4211.96
	OVERHEADS & PROFIT @ 15 %				631.79
	TOTAL				4843.75
14.4	Excavation including refilling as required	cum	0.95	546.00	518.70
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.34	6614.00	2248.76
	TOTAL				7611.21
	Rate per Each				7611.21
	Say				7611.00

- 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 (Rs.)
	MATERIALS				
2950	Stone aggregate (single size) 20mm nominal size	cum	0.70	1410.00	987.00
2951	Stone aggregate (single size) 10mm nominal size	cum	0.24	1410.00	338.40
2952	Coarse sand (Zone III)	cum	0.47	1440.00	676.80
2948	Cement	tonne	0.22	6300.00	1386.00
	Total cost of materials				3388.20

	Cartage @ 1 % of A1				33.88
	LABOUR				
1010	Mason, Grade 2	day	0.20	612.00	122.40
1012	Beldar/ coolie	day	1.80	553.00	995.40
1013	Bhisti	day	1.00	553.00	553.00
9999	Sundries	L.S.	70.00	1.00	70.00
	TOTAL				5162.88
	Add 1% for water charges				51.29
	TOTAL				5214.17
	Add 12% GST (MF = 0.1405)				732.59
	TOTAL				5946.76
	OVERHEADS & PROFIT @ 15 %				892.01
	TOTAL				6838.77
	Rate per cum				6838.77
	Say				6839.00

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 metre long 1 No pipe

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2831	32 mm dia. G.I. pipe (medium class)	metre	2.00	206.00	412.00
	Total cost of materials				412.00
	Cartage @ 1 % of A1				4.12
	LABOUR				
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.05	553.00	27.65
9999	Bending charges	L.S.	20.00	1.00	20.00
	TOTAL				494.37
	Add 12% GST (MF = 0.1405)				69.46
	TOTAL				563.83
	OVERHEADS & PROFIT @ 15 %				84.57
	Cost for 2 metres				648.40
	Rate per metre				324.20
	Say				324.00

11.6.2 40 mm dia**Details of cost for 2 metre long 1 No pipe**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2826	40 mm dia. G.I. pipe (medium class)	metre	2.00	239.00	478.00
	Total cost of materials				478.00
	Cartage @ 1 % of A1				4.78
LABOUR					
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.05	553.00	27.65
9999	Bending charges	L.S.	20.00	1.00	20.00
	TOTAL				561.03
	Add 12% GST (MF = 0.1405)				78.82
	TOTAL				639.85
	OVERHEADS & PROFIT @ 15 %				95.98
	Cost for 2 metres				735.83
	Rate per metre				367.92
	Say				368.00

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 (Rs.)
	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	22.00	22.00
	Total cost of materials				952.85
	Cartage @ 1 % of A1				9.53
	LABOUR				
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	1.33	553.00	735.49
	TOTAL				1919.96
	Add 12% GST (MF = 0.1405)				269.75
	TOTAL				2189.71
	OVERHEADS & PROFIT @ 15 %				328.46
	TOTAL				2518.17
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
	TOTAL				5025.29
	Rate per Each				5025.29
	Say				5025.00

- 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 (Rs.)
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	22.00	22.00
Total cost of materials					853.69
Cartage @ 1 % of A1					8.54
LABOUR					
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	1.33	553.00	735.49
TOTAL					1819.81
Add 12% GST (MF = 0.1405)					255.68
TOTAL					2075.49
OVERHEADS & PROFIT @ 15 %					311.32
TOTAL					2386.81
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
TOTAL					4893.93
Rate per Each					4893.93
Say					4894.00

- 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 (Rs.)
	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	22.00	22.00
	Total cost of materials				810.85
	Cartage @ 1 % of A1				8.11
	LABOUR				
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	1.33	553.00	735.49
	TOTAL				1776.54
	Add 12% GST (MF = 0.1405)				249.60
	TOTAL				2026.14
	OVERHEADS & PROFIT @ 15 %				303.92
	TOTAL				2330.06
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
	TOTAL				4837.18
	Rate per Each				4837.18
	Say				4837.00

- 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 (Rs.)
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	22.00	22.00
Total cost of materials					707.99
Cartage @ 1 % of A1					7.08
LABOUR					
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	1.33	553.00	735.49
TOTAL					1672.65
Add 12% GST (MF = 0.1405)					235.01
TOTAL					1907.66
OVERHEADS & PROFIT @ 15 %					286.15
TOTAL					2193.81
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
TOTAL					4700.93
Rate per Each					4700.93
Say					4701.00

- 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 (Rs.)
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	22.00	22.00
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	86.00	86.00
Total cost of materials					1190.65
Cartage @ 1 % of A1					11.91
LABOUR					
1003	Lineman	day	0.33	673.00	222.09
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	1.33	553.00	735.49
TOTAL					2190.74
Add 12% GST (MF = 0.1405)					307.80
TOTAL					2498.53
OVERHEADS & PROFIT @ 15 %					374.78
TOTAL					2873.31
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
TOTAL					5380.43
Rate per Each					5380.43
Say					5380.00

- 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 (Rs.)
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	22.00	22.00
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	86.00	86.00
Total cost of materials					1087.79
Cartage @ 1 % of A1					10.88
LABOUR					
1003	Lineman	day	0.33	673.00	222.09
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	1.33	553.00	735.49
TOTAL					2086.85
Add 12% GST (MF = 0.1405)					293.20
TOTAL					2380.05
OVERHEADS & PROFIT @ 15 %					357.01
TOTAL					2737.06
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
TOTAL					5244.18
Rate per Each					5244.18
Say					5244.00

- 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 (Rs.)
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	22.00	22.00
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	86.00	86.00
Total cost of materials					1048.65
Cartage @ 1 % of A1					10.49
LABOUR					
1003	Lineman	day	0.33	673.00	222.09
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	1.33	553.00	735.49
TOTAL					2047.32
Add 12% GST (MF = 0.1405)					287.65
TOTAL					2334.96
OVERHEADS & PROFIT @ 15 %					350.24
TOTAL					2685.20
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
TOTAL					5192.32
Rate per Each					5192.32
Say					5192.00

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 (Rs.)
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	22.00	22.00
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	86.00	86.00
Total cost of materials					945.79
Cartage @ 1 % of A1					9.46
LABOUR					
1003	Lineman	day	0.33	673.00	222.09
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	1.33	553.00	735.49
TOTAL					1943.43
Add 12% GST (MF = 0.1405)					273.05
TOTAL					2216.48
OVERHEADS & PROFIT @ 15 %					332.47
TOTAL					2548.95
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
TOTAL					5056.07
Rate per Each					5056.07
Say					5056.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	0.33	673.00	222.09
1007	Khallas	day	1.33	553.00	735.49
	TOTAL				957.58
	Add 12% GST (MF = 0.1405)				134.54
	TOTAL				1092.12
	OVERHEADS & PROFIT @ 15 %				163.82
	TOTAL				1255.94
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
	TOTAL				3763.06
	Rate per Each				3763.06
	Say				3763.00

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 (Rs.)
	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	33.00	132.33
2813	50 mm X 6 mm flat iron = 0.9 + 0.02 (wastage @ 2%) = 0.92 kg	kg	0.92	33.00	30.36
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.25	12.50
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
	Total cost of materials				180.19
	Cartage @ 1 % of A1				1.80
	LABOUR				
1005	Fitter, Grade 2	day	0.12	612.00	73.44
1009	Blacksmith, Grade 2	day	0.06	612.00	36.72

1007	Khallasi	day	0.18	553.00	99.54
1084	Drilling holes	each	6.00	6.00	36.00
	TOTAL				427.69
	Add 12% GST (MF = 0.1405)				60.09
	TOTAL				487.78
	OVERHEADS & PROFIT @ 15 %				73.17
	TOTAL				560.95
	Rate per Set				560.95
	Say				561.00

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 (Rs.)
	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	33.00	276.21
2813	50 mm X 6 mm flat iron = 0.9 + 0.02 (wastage @ 2%) = 0.92 kg	kg	0.92	33.00	30.36
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.25	12.50
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
	Total cost of materials				324.07
	Cartage @ 1 % of A1				3.24
	LABOUR				
1005	Fitter, Grade 2	day	0.21	612.00	128.52
1009	Blacksmith, Grade 2	day	0.06	612.00	36.72
1007	Khallasi	day	0.25	553.00	138.25
1084	Drilling holes	each	10.00	6.00	60.00
	TOTAL				690.80
	Add 12% GST (MF = 0.1405)				97.06
	TOTAL				787.86
	OVERHEADS & PROFIT @ 15 %				118.18
	TOTAL				906.04
	Rate per Set				906.04
	Say				906.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	0.11	673.00	74.03
1007	Khallasi	day	0.22	553.00	121.66
	TOTAL				195.69
	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

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 (Rs.)
	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	673.00	26.92
1005	Fitter, Grade 2	day	0.04	612.00	24.48
1007	Khallasi	day	0.08	553.00	44.24
	TOTAL				186.74
	Add 12% GST (MF = 0.1405)				26.24
	TOTAL				212.98
	OVERHEADS & PROFIT @ 15 %				31.95
	TOTAL				244.93
	Rate per Set				244.93
	Say				245.00

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 (Rs.)
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	673.00	26.92
1005	Fitter, Grade 2	day	0.04	612.00	24.48
1007	Khallasi	day	0.08	553.00	44.24
TOTAL					207.95
Add 12% GST (MF = 0.1405)					29.22
TOTAL					237.17
OVERHEADS & PROFIT @ 15 %					35.58
TOTAL					272.75
Rate per Set					272.75
Say					273.00

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 (Rs.)
LABOUR					
1003	Lineman	day	0.04	673.00	26.92
1007	Khallasi	day	0.04	553.00	22.12
TOTAL					49.04
Add 12% GST (MF = 0.1405)					6.89
TOTAL					55.93
OVERHEADS & PROFIT @ 15 %					8.39
TOTAL					64.32
Rate per Set					64.32
Say					64.00

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 (Rs.)
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	673.00	20.19
1007	Khallasi	day	0.06	553.00	33.18
TOTAL					126.29
Add 12% GST (MF = 0.1405)					17.74
TOTAL					144.04
OVERHEADS & PROFIT @ 15 %					21.61
TOTAL					165.65
Rate per Set					165.65
Say					166.00

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 (Rs.)
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	673.00	20.19
1007	Khallasi	day	0.06	553.00	33.18
TOTAL					147.50
Add 12% GST (MF = 0.1405)					20.72

TOTAL	168.23
OVERHEADS & PROFIT @ 15 %	25.23
TOTAL	193.46
Rate per Set	193.46
Say	193.00

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 (Rs.)
MATERIALS					
2609	Pin insulator (100 mm X 65 mm) with G.I. spindle and nuts	set	1.00	27.36	27.36
	Total cost of materials				27.36
	Cartage @ 1 % of A1				0.27
LABOUR					
1003	Lineman	day	0.03	673.00	20.19
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				81.00
	Add 12% GST (MF = 0.1405)				11.38
	TOTAL				92.38
	OVERHEADS & PROFIT @ 15 %				13.86
	TOTAL				106.24
	Rate per Set				106.24
	Say				106.00

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 (Rs.)
MATERIALS					
2610	Pin insulator (100 mm X 80 mm) with G.I. spindle and nuts	set	1.00	28.80	28.80
	Total cost of materials				28.80
	Cartage @ 1 % of A1				0.29
LABOUR					

1003	Lineman	day	0.03	673.00	20.19
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				82.46
	Add 12% GST (MF = 0.1405)				11.59
	TOTAL				94.04
	OVERHEADS & PROFIT @ 15 %				14.11
	TOTAL				108.15
	Rate per Set				108.15
	Say				108.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	0.03	673.00	20.19
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				53.37
	Add 12% GST (MF = 0.1405)				7.50
	TOTAL				60.87
	OVERHEADS & PROFIT @ 15 %				9.13
	TOTAL				70.00
	Rate per Set				70.00
	Say				70.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	5.00	673.00	3365.00
1007	Khallasi	day	25.00	553.00	13825.00
	TOTAL				17190.00
	Add 12% GST (MF = 0.1405)				2415.20
	TOTAL				19605.20
	OVERHEADS & PROFIT @ 15 %				2940.78
	Cost for 133 Kg				22545.98
	Rate per Kg				169.52
	Say				170.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	9.00	673.00	6057.00
1007	Khallasi	day	30.00	553.00	16590.00
	TOTAL				22647.00
	Add 12% GST (MF = 0.1405)				3181.90
	TOTAL				25828.90
	OVERHEADS & PROFIT @ 15 %				3874.34
	Cost for 133 Kg				29703.24
	Rate per Kg				223.33
	Say				223.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	5.00	673.00	3365.00
1007	Khallasi	day	25.00	553.00	13825.00
	TOTAL				17190.00
	Add 12% GST (MF = 0.1405)				2415.20
	TOTAL				19605.20
	OVERHEADS & PROFIT @ 15 %				2940.78
	Cost for 101 Kg				22545.98
	Rate per Kg				223.23
	Say				223.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	9.00	673.00	6057.00
1007	Khallasi	day	30.00	553.00	16590.00

TOTAL	22647.00
Add 12% GST (MF = 0.1405)	3181.90
TOTAL	25828.90
OVERHEADS & PROFIT @ 15 %	3874.34
Cost for 174 Kg	29703.24
Rate per Kg	170.71
Say	171.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	1.25	673.00	841.25
1007	Khallasi	day	5.62	553.00	3107.86
	TOTAL				3949.11
	Add 12% GST (MF = 0.1405)				554.85
	TOTAL				4503.96
	OVERHEADS & PROFIT @ 15 %				675.59
	Cost for 153 Kg				5179.55
	Rate per Kg				33.85
	Say				34.00

12.26 Erection of hexagonal type guard as required.**Details of cost for one No**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1003	Lineman	day	0.06	673.00	40.38
1007	Khallasi	day	0.18	553.00	99.54
	TOTAL				139.92
	Add 12% GST (MF = 0.1405)				19.66
	TOTAL				159.58
	OVERHEADS & PROFIT @ 15 %				23.94
	TOTAL				183.52
	Rate per Each				183.52
	Say				184.00

12.27 Erection of ring type guard as required.**Details of cost for one No**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1003	Lineman	day	0.02	673.00	13.46
1007	Khallasi	day	0.06	553.00	33.18
	TOTAL				46.64
	Add 12% GST (MF = 0.1405)				6.55
	TOTAL				53.19
	OVERHEADS & PROFIT @ 15 %				7.98
	TOTAL				61.17
	Rate per Each				61.17
	Say				61.00

12.28 Erection of cradle guard as required.**Details of cost for one No**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1003	Lineman	day	0.04	673.00	26.92
1007	Khallasi	day	0.12	553.00	66.36
	TOTAL				93.28
	Add 12% GST (MF = 0.1405)				13.11
	TOTAL				106.39
	OVERHEADS & PROFIT @ 15 %				15.96
	TOTAL				122.35
	Rate per Each				122.35
	Say				122.00

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 (Rs.)
	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	673.00	26.92
1007	Khallasi	day	0.08	553.00	44.24
	TOTAL				84.29
	Add 12% GST (MF = 0.1405)				11.84
	TOTAL				96.13
	OVERHEADS & PROFIT @ 15 %				14.42
	TOTAL				110.55
	Rate per Each				110.55
	Say				111.00

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 (Rs.)
	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	673.00	26.92
1007	Khallasi	day	0.08	553.00	44.24
	TOTAL				91.36
	Add 12% GST (MF = 0.1405)				12.84
	TOTAL				104.20
	OVERHEADS & PROFIT @ 15 %				15.63
	TOTAL				119.83
	Rate per Each				119.83
	Say				120.00

12.31 Erection of aerial fuse as required.**Details of cost for one No**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1003	Lineman	day	0.04	673.00	26.92
1007	Khallasi	day	0.08	553.00	44.24

TOTAL	71.16
Add 12% GST (MF = 0.1405)	10.00
TOTAL	81.16
OVERHEADS & PROFIT @ 15 %	12.17
TOTAL	93.33
Rate per Each	93.33
Say	93.00

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 (Rs.)
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	673.00	40.38
1007	Khallasi	day	0.12	553.00	66.36
	TOTAL				186.73
	Add 12% GST (MF = 0.1405)				26.24
	TOTAL				212.97
	OVERHEADS & PROFIT @ 15 %				31.95
	TOTAL				244.92
	Rate per Each				244.92
	Say				245.00

12.33 Fixing of MV lightning arrestor as required.**Details of cost for one No**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
LABOUR					
1003	Lineman	day	0.06	673.00	40.38
1007	Khallasi	day	0.12	553.00	66.36
	TOTAL				106.74
	Add 12% GST (MF = 0.1405)				15.00

TOTAL	121.74
OVERHEADS & PROFIT @ 15 %	18.26
TOTAL	140.00
Rate per Each	140.00
Say	140.00

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 (Rs.)
MATERIALS					
2820	32 mm dia G.I. Pipe (light class) = 2.0 + 0.04 (Wastage @ 2%) = 2.04m	metre	2.04	175.00	357.00
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	33.00	87.45
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.25	25.00
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					474.45
Cartage @ 1 % of A1					4.74
LABOUR					
1005	Fitter, Grade 2	day	0.12	612.00	73.44
1003	Lineman	day	0.12	673.00	80.76
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					771.64
Add 12% GST (MF = 0.1405)					108.42
TOTAL					880.06
OVERHEADS & PROFIT @ 15 %					132.01
TOTAL					1012.07
Rate per Each					1012.07
Say					1012.00

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 (Rs.)
MATERIALS					
2821	50 mm dia G.I. Pipe (light class) = 2.1 + 0.04 (Wastage @ 2%) = 2.14m	metre	2.14	275.00	588.50
2839	50 mm dia. G.I. bend (medium class)	each	3.00	99.00	297.00
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 (50 mm X 50 mm X 6 mm) 65 cm long	each	1.00	111.60	111.60
2855	Steel fastener 6 mm X 75 mm	each	4.00	5.50	22.00
2925	Flat iron clamps (50 mm X 6 mm) for G.I. pipe	each	4.00	35.00	140.00
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					1222.10
Cartage @ 1 % of A1					12.22
LABOUR					
1005	Fitter, Grade 2	day	0.25	612.00	153.00
1003	Lineman	day	0.16	673.00	107.68
1007	Khallasi	day	0.50	553.00	276.50
TOTAL					1771.50
Add 12% GST (MF = 0.1405)					248.90
TOTAL					2020.40
OVERHEADS & PROFIT @ 15 %					303.06
TOTAL					2323.46
Rate per Each					2323.46
Say					2323.00

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 (Rs.)
MATERIALS					
2821	50 mm dia G.I. Pipe (light class) = 4.5 + 0.09 (Wastage @ 2%) = 4.59m	metre	4.50	275.00	1237.50

2839	50 mm dia. G.I. bend (medium class)	each	3.00	99.00	297.00
2807	50 mm X 50 mm X 6 mm angle iron = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	kg	3.04	33.00	100.32
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	5.50	22.00
2925	Flat iron clamps (50 mm X 6 mm) for G.I. pipe	each	4.00	35.00	140.00
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	6.25	12.50
2837	Nipple 50 mm dia	each	1.00	60.00	60.00
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					2040.41
Cartage @ 1 % of A1					20.40
LABOUR					
1005	Fitter, Grade 2	day	0.16	612.00	97.92
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	0.41	553.00	226.73
TOTAL					2607.55
Add 12% GST (MF = 0.1405)					366.36
TOTAL					2973.92
OVERHEADS & PROFIT @ 15 %					446.09
TOTAL					3420.01
Rate per Each					3420.01
Say					3420.00

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 (Rs.)
MATERIALS					
2821	50 mm dia G.I. Pipe (light class) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	metre	3.06	275.00	841.50
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	33.00	87.45

2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.25	25.00
	Total cost of materials				953.95
	Cartage @ 1 % of A1				9.54
	LABOUR				
1005	Fitter, Grade 2	day	0.12	612.00	73.44
1003	Lineman	day	0.12	673.00	80.76
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1255.94
	Add 12% GST (MF = 0.1405)				176.46
	TOTAL				1432.40
	OVERHEADS & PROFIT @ 15 %				214.86
	TOTAL				1647.26
	Rate per Each				1647.26
	Say				1647.00

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 (Rs.)
	MATERIALS				
2822	80 mm dia G.I. Pipe (light class) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	metre	3.06	437.00	1337.22
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	33.00	87.45
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.25	25.00
	Total cost of materials				1449.67
	Cartage @ 1 % of A1				14.50
	LABOUR				
1005	Fitter, Grade 2	day	0.12	612.00	73.44
1003	Lineman	day	0.12	673.00	80.76
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1756.62
	Add 12% GST (MF = 0.1405)				246.80
	TOTAL				2003.42
	OVERHEADS & PROFIT @ 15 %				300.51
	TOTAL				2303.93
	Rate per Each				2303.93
	Say				2304.00

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 (Rs.)
MATERIALS					
2823	100 mm dia G.I. Pipe (light class) = 3.0 + 0.06 (Wastage @ 2%) = 3.06m	metre	3.06	611.00	1869.66
2812	40 mm X 3 mm flat iron = 2.6 + 0.05 (Wastage @ 2%) = 2.65kg	kg	2.65	33.00	87.45
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.25	25.00
Total cost of materials					1982.11
Cartage @ 1 % of A1					19.82
LABOUR					
1005	Fitter, Grade 2	day	0.12	612.00	73.44
1003	Lineman	day	0.12	673.00	80.76
1007	Khallasi	day	0.25	553.00	138.25
TOTAL					2294.38
Add 12% GST (MF = 0.1405)					322.36
TOTAL					2616.74
OVERHEADS & PROFIT @ 15 %					392.51
TOTAL					3009.25
Rate per Each					3009.25
Say					3009.00

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 (Rs.)
LABOUR					
1003	Lineman	day	2.00	673.00	1346.00
1007	Khallasi	day	4.00	553.00	2212.00
TOTAL					3558.00
Add 12% GST (MF = 0.1405)					499.90
TOTAL					4057.90

OVERHEADS & PROFIT @ 15 %	608.68
Cost for 64 kg	4666.58
Rate per Kg	72.92
Say	73.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	0.25	673.00	168.25
1007	Khallasi	day	2.00	553.00	1106.00
	TOTAL				1274.25
	Add 12% GST (MF = 0.1405)				179.03
	TOTAL				1453.28
	OVERHEADS & PROFIT @ 15 %				217.99
	TOTAL				1671.27
	Rate per Each				1671.27
	Say				1671.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	0.33	673.00	222.09
1007	Khallasi	day	2.66	553.00	1470.98
	TOTAL				1693.07
	Add 12% GST (MF = 0.1405)				237.88
	TOTAL				1930.95
	OVERHEADS & PROFIT @ 15 %				289.64
	TOTAL				2220.59
	Rate per Each				2220.59
	Say				2221.00

CHAPTER 13 – HV OVER HEAD LINE WORK

- 13.1 Supplying and erection of galvanised stay set for 11 KV over head lines complete 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 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 (Rs.)
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	673.00	222.09
1007	Khallasi	day	1.33	553.00	735.49
TOTAL					1946.22
Add 12% GST (MF = 0.1405)					273.44
0.1405)					
TOTAL					2219.66
OVERHEADS & PROFIT @ 15 %					332.95
TOTAL					2552.61
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
TOTAL					5059.73
Rate per Set					5059.73
Say					5060.00

- 13.2 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) 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 (Rs.)
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	33.00	60.06
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	33.00	27.72
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.25	12.50
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					105.28
Cartage @ 1 % of A1					1.05
LABOUR					
1005	Fitter, Grade 2	day	0.12	612.00	73.44
1009	Blacksmith, Grade 2	day	0.06	612.00	36.72
1007	Khallasi	day	0.18	553.00	99.54
1084	Drilling holes	each	4.00	6.00	24.00
TOTAL					340.03
Add 12% GST (MF = 0.1405)					47.77
TOTAL					387.81
OVERHEADS & PROFIT @ 15 %					58.17
TOTAL					445.98
Rate per Each					445.98
Say					446.00

- 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 (Rs.)
MATERIALS					
2814	50 mm X 8 mm flat iron = 1.60 + 0.03 (Wastage @ 2%) = 1.63kg	kg	1.63	33.00	53.79

2869	16 mm X 125 mm bolts and nuts with washers	set	2.00	20.65	41.30
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					100.09
Cartage @ 1 % of A1					1.00
LABOUR					
1005	Fitter, Grade 2	day	0.12	612.00	73.44
1009	Blacksmith, Grade 2	day	0.06	612.00	36.72
1007	Khallasi	day	0.18	553.00	99.54
1084	Drilling holes	each	4.00	6.00	24.00
1086	Welding charges	mm	100.00	0.50	50.00
TOTAL					384.79
Add 12% GST (MF = 0.1405)					54.06
TOTAL					438.85
OVERHEADS & PROFIT @ 15 %					65.83
TOTAL					504.68
Rate per Each					504.68
Say					505.00

- 13.4 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) 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 (Rs.)
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	33.00	264.33
2807	50 mm X 50 mm X 6 mm angle iron = 8.35 + 0.17 (Wastage @ 2%) = 8.52kg	kg	8.52	33.00	281.16
2813	50 mm X 6 mm flat iron = 1.63 + 0.03 (Wastage @ 2%) = 1.66kg	kg	1.66	33.00	54.78
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.25	25.00
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					630.27
Cartage @ 1 % of A1					6.30

LABOUR					
1005	Fitter, Grade 2	day	0.25	612.00	153.00
1009	Blacksmith, Grade 2	day	0.15	612.00	91.80
1007	Khallasi	day	0.40	553.00	221.20
1086	Welding charges	mm	200.00	0.50	100.00
1084	Drilling holes	each	8.00	6.00	48.00
TOTAL					1250.57
Add 12% GST (MF = 0.1405)					175.71
TOTAL					1426.28
OVERHEADS & PROFIT @ 15 %					213.94
TOTAL					1640.22
Rate per Each					1640.22
Say					1640.00

13.5 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) 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 (Rs.)
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	33.00	338.25
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	33.00	27.72
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.25	12.50
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					383.47
Cartage @ 1 % of A1					3.83
LABOUR					
1005	Fitter, Grade 2	day	0.30	612.00	183.60
1009	Blacksmith, Grade 2	day	0.20	612.00	122.40
1007	Khallasi	day	0.50	553.00	276.50
1086	Welding charges	mm	320	0.50	160.00
1084	Drilling holes	each	4.00	6.00	24.00
TOTAL					1153.80

Add 12% GST (MF = 0.1405)	162.11
TOTAL	1315.91
OVERHEADS & PROFIT @ 15 %	197.39
TOTAL	1513.30
Rate per Each	1513.30
Say	1513.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	0.20	673.00	134.60
1007	Khallasi	day	0.40	553.00	221.20
	TOTAL				355.80
	Add 12% GST (MF = 0.1405)				49.99
	TOTAL				405.79
	OVERHEADS & PROFIT @ 15 %				60.87
	TOTAL				466.66
	Rate per Set				466.66
	Say				467.00

13.7 Supplying of two lengths of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) 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 (Rs.)
	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	33.00	1105.50
2813	50 mm X 6 mm flat iron = 2.52 + 0.0504 (Wastage @ 2%) = 2.57kg	kg	2.57	33.00	84.81

2869	16 mm X 125 mm bolts and nuts with washers	set	4.00	20.65	82.60
2868	16 mm X 40 mm bolts and nuts with washers	set	12.00	6.30	75.60
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					1353.51
Cartage @ 1 % of A1					13.54
LABOUR					
1005	Fitter, Grade 2	day	0.50	612.00	306.00
1009	Blacksmith, Grade 2	day	0.15	612.00	91.80
1007	Khallasi	day	1.50	553.00	829.50
1084	Drilling holes	each	32.00	6.00	192.00
TOTAL					2786.35
Add 12% GST (MF = 0.1405)					391.48
TOTAL					3177.83
OVERHEADS & PROFIT @ 15 %					476.67
TOTAL					3654.50
Rate per Set					3654.50
Say					3654.00

- 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 (Rs.)
MATERIALS					
2807	50 mm X 50 mm X 6 mm angle iron = 41.98 + 0.84 (Wastage @ 2%) = 42.82kg	kg	42.82	33.00	1413.06
2813	50 mm X 6 mm flat iron = 3.65 + 0.07 (Wastage @ 2%) = 3.72kg	kg	3.72	33.00	122.76
2867	16 mm X 50 mm bolts and nuts with washers	set	8.00	6.25	50.00
2868	16 mm X 40 mm bolts and nuts with washers	set	1.00	6.30	6.30
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					1597.12
Cartage @ 1 % of A1					15.97
LABOUR					
1003	Lineman	day	0.50	673.00	336.50

1005	Fitter, Grade 2	day	0.50	612.00	306.00
1009	Blacksmith, Grade 2	day	0.50	612.00	306.00
1007	Khallasi	day	3.00	553.00	1659.00
1084	Drilling holes	each	18.00	6.00	108.00
	TOTAL				4328.59
	Add 12% GST (MF = 0.1405)				608.17
	TOTAL				4936.76
	OVERHEADS & PROFIT @ 15 %				740.51
	TOTAL				5677.27
	Rate per Set				5677.27
	Say				5677.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	0.35	673.00	235.55
1007	Khallasi	day	1.05	553.00	580.65
	TOTAL				816.20
	Add 12% GST (MF = 0.1405)				114.68
	TOTAL				930.88
	OVERHEADS & PROFIT @ 15 %				139.63
	TOTAL				1070.51
	Rate per Each				1070.51
	Say				1071.00

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 (Rs.)
	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	673.00	67.30

1007	Khallasi	day	0.10	553.00	55.30
	TOTAL				213.90
	Add 12% GST (MF = 0.1405)				30.05
	TOTAL				243.96
	OVERHEADS & PROFIT @ 15 %				36.59
	TOTAL				280.55
	Rate per Each				280.55
	Say				281.00

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 (Rs.)
	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	673.00	67.30
1005	Fitter, Grade 2	day	0.05	612.00	30.60
1007	Khallasi	day	0.15	553.00	82.95
	TOTAL				709.69
	Add 12% GST (MF = 0.1405)				99.71
	TOTAL				809.40
	OVERHEADS & PROFIT @ 15 %				121.41
	TOTAL				930.81
	Rate per Each				930.81
	Say				931.00

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 (Rs.)
	LABOUR				
1003	Lineman	day	0.06	673.00	40.38
1007	Khallasi	day	0.12	553.00	66.36

TOTAL	106.74
Add 12% GST (MF = 0.1405)	15.00
TOTAL	121.74
OVERHEADS & PROFIT @ 15 %	18.26
TOTAL	140.00
Rate per Set	140.00
Say	140.00

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 (Rs.)
	MATERIALS				
2650	3 piece lightning arrestor set for 11 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	673.00	168.25
1007	Khallasi	day	0.25	553.00	138.25
	TOTAL				1942.70
	Add 12% GST (MF = 0.1405)				272.95
	TOTAL				2215.65
	OVERHEADS & PROFIT @ 15 %				332.35
	TOTAL				2548.00
	Rate per Each				2548.00
	Say				2548.00

13.14 Supplying and erection of galvanised stay set for 33 KV over head lines complete with 19/ 20 mm dia X 1.8 metres 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 (Rs.)
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	673.00	222.09
1007	Khallasi	day	1.33	553.00	735.49
TOTAL					1955.11
Add 12% GST (MF = 0.1405)					274.69
TOTAL					2229.80
OVERHEADS & PROFIT @ 15 %					334.47
TOTAL					2564.27
14.4	Excavation including refilling as required	cum	1.20	546.00	655.20
14.9	Cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	0.28	6614.00	1851.92
TOTAL					5071.39
Rate per Each					5071.39
Say					5071.00

13.15 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) 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 (Rs.)
MATERIALS					
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)	kg	2.18	33.00	71.94
	= 1.15 mtr = 8.21kg + 0.16 (wastage @ 2%) = 8.37 kg	kg	0.84	33.00	27.72

2813	50 mm X 6 mm flat iron				
	= 0.82 + 0.02 (Wastage @ 2%) = 0.84kg				
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.25	12.50
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
	Total cost of materials				117.16
	Cartage @ 1 % of A1				1.17
	LABOUR				
1005	Fitter, Grade 2	day	0.12	612.00	73.44
1009	Blacksmith, Grade 2	day	0.06	612.00	36.72
1007	Khallasi	day	0.18	553.00	99.54
1084	Drilling holes	each	4.00	6.00	24.00
	TOTAL				352.03
	Add 12% GST (MF = 0.1405)				49.46
	TOTAL				401.49
	OVERHEADS & PROFIT @ 15 %				60.22
	TOTAL				461.71
	Rate per Each				461.71
	Say				462.00

13.16 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) 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 (Rs.)
	MATERIALS				
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)	kg	11.65	33.00	384.45
	= 11.42 + 0.23 (Wastage @ 2%) = 11.65kg				
2807	50 mm X 50 mm X 6 mm angle iron	kg	11.99	33.00	395.67
	= 11.75 + 0.24 (Wastage @ 2%) = 11.99kg				
2813	50 mm X 6 mm flat iron	kg	1.66	33.00	54.78
	= 1.63 + 0.03 (Wastage @ 2%) = 1.66kg				
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.25	25.00
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
	Total cost of materials				864.90
	Cartage @ 1 % of A1				8.65
	LABOUR				

1005	Fitter, Grade 2	day	0.25	612.00	153.00
1009	Blacksmith, Grade 2	day	0.15	612.00	91.80
1007	Khallasi	day	0.40	553.00	221.20
1084	Drilling holes	each	8.00	6.00	48.00
1086	Welding charges	mm	200	0.50	100.00
TOTAL					1487.55
Add 12% GST (MF = 0.1405)					209.00
TOTAL					1696.55
OVERHEADS & PROFIT @ 15 %					254.48
TOTAL					1951.03
Rate per Each					1951.03
Say					1951.00

13.17 Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) 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 (Rs.)
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	33.00	446.49
2813	50 mm X 6 mm flat iron = 0.82 + 0.02 (Wastage @ 2%) = 0.84kg	kg	0.84	33.00	27.72
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.25	12.50
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					491.71
Cartage @ 1 % of A1					4.92
LABOUR					
1005	Fitter, Grade 2	day	0.30	612.00	183.60
1009	Blacksmith, Grade 2	day	0.20	612.00	122.40
1007	Khallasi	day	0.50	553.00	276.50
1086	Welding charges	mm	320	0.50	160.00
1084	Drilling holes	each	4.00	6.00	24.00
TOTAL					1263.13
Add 12% GST (MF = 0.1405)					177.47
TOTAL					1440.60

OVERHEADS & PROFIT @ 15 %	216.09
TOTAL	1656.69
Rate per Each	1656.69
Say	1657.00

13.18 Supplying of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per metre), 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 (Rs.)
	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	33.00	96.69
2813	50 mm X 6 mm flat iron = 1.00 + 0.02 (Wastage @ 2%) = 1.02kg	kg	1.02	33.00	33.66
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.25	12.50
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
	Total cost of materials				147.85
	Cartage @ 1 % of A1				1.48
	LABOUR				
1005	Fitter, Grade 2	day	0.15	612.00	91.80
1009	Blacksmith, Grade 2	day	0.07	612.00	42.84
1007	Khallasi	day	0.22	553.00	121.66
1084	Drilling holes	each	4.00	6.00	24.00
	TOTAL				429.63
	Add 12% GST (MF = 0.1405)				60.36
	TOTAL				489.99
	OVERHEADS & PROFIT @ 15 %				73.50
	TOTAL				563.49
	Rate per Each				563.49
	Say				563.00

13.19 Supplying of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per metre) 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 (Rs.)
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	33.00	597.63
2807	50 mm X 50 mm X 6 mm angle iron = 11.75 + 0.24 (Wastage @ 2%) = 11.99kg	kg	11.99	33.00	395.67
2813	50 mm X 6 mm flat iron = 2.01 + 0.0402 (Wastage @ 2%) = 2.05kg	kg	2.05	33.00	67.65
2867	16 mm X 50 mm bolts and nuts with washers	set	4.00	6.25	25.00
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					1090.95
Cartage @ 1 % of A1					10.91
LABOUR					
1005	Fitter, Grade 2	day	0.35	612.00	214.20
1009	Blacksmith, Grade 2	day	0.15	612.00	91.80
1007	Khallasi	day	0.50	553.00	276.50
1086	Welding charges	mm	200	0.50	100.00
1084	Drilling holes	each	8.00	6.00	48.00
TOTAL					1832.36
Add 12% GST (MF = 0.1405)					257.45
TOTAL					2089.81
OVERHEADS & PROFIT @ 15 %					313.47
TOTAL					2403.28
Rate per Each					2403.28
Say					2403.00

13.20 Supplying of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per metre) 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 (Rs.)
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	33.00	597.63

2813	50 mm X 6 mm flat iron	kg	0.84	33.00	27.72
	= 0.82 + 0.02 (Wastage @ 2%) = 0.84kg				
2867	16 mm X 50 mm bolts and nuts with washers	set	2.00	6.25	12.50
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
	Total cost of materials				642.85
	Cartage @ 1 % of A1				6.43
	LABOUR				
1005	Fitter, Grade 2	day	0.30	612.00	183.60
1009	Blacksmith, Grade 2	day	0.20	612.00	122.40
1007	Khallasi	day	0.50	553.00	276.50
1086	Welding charges	mm	500	0.50	250.00
1084	Drilling holes	each	4.00	6.00	24.00
	TOTAL				1505.78
	Add 12% GST (MF = 0.1405)				211.56
	TOTAL				1717.34
	OVERHEADS & PROFIT @ 15 %				257.60
	TOTAL				1974.94
	Rate per Each				1974.94
	Say				1975.00

13.21 Supplying of two lengths of channel iron 100 mm X 50 mm X 6 mm (9.56 kg per metre) 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 (Rs.)
	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	33.00	1480.38
2813	50 mm X 6 mm flat iron = 2.88 + 0.06 (Wastage @ 2%) = 2.94kg	kg	2.94	33.00	97.02
2870	16 mm X 150 mm bolts and nuts with washers	set	4.00	24.30	97.20

2868	16 mm X 40 mm bolts and nuts with washers	set	12.00	6.30	75.60
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					1755.20
Cartage @ 1 % of A1					17.55
LABOUR					
1005	Fitter, Grade 2	day	0.60	612.00	367.20
1009	Blacksmith, Grade 2	day	0.15	612.00	91.80
1007	Khallasi	day	2.70	553.00	1493.10
1084	Drilling holes	each	32.00	6.00	192.00
TOTAL					3916.85
Add 12% GST (MF = 0.1405)					550.32
TOTAL					4467.17
OVERHEADS & PROFIT @ 15 %					670.08
TOTAL					5137.25
Rate per Each					5137.25
Say					5137.00

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 (Rs.)
MATERIALS					
2808	65 mm X 65 mm X 6 mm angle iron	kg	77.95	33.00	2572.35
= 76.42 + 1.53 (Wastage @ 2%) = 77.95kg					
2813	50 mm X 6 mm flat iron	kg	4.51	33.00	148.83
= 4.42 + 0.09 (Wastage @ 2%) = 4.51kg					
2867	16 mm X 50 mm bolts and nuts with washers	set	8.00	6.25	50.00
2868	16 mm X 40 mm bolts and nuts with washers	set	1.00	6.30	6.30
2936	Painting with primer and finish paint	L.S.	1.00	5.00	5.00
Total cost of materials					2782.48

	Cartage @ 1 % of A1				27.82
	LABOUR				
1003	Lineman	day	0.60	673.00	403.80
1005	Fitter, Grade 2	day	0.50	612.00	306.00
1009	Blacksmith, Grade 2	day	0.50	612.00	306.00
1007	Khallasi	day	3.40	553.00	1880.20
1084	Drilling holes	each	18.00	6.00	108.00
	TOTAL				5814.30
	Add 12% GST (MF = 0.1405)				816.91
	TOTAL				6631.21
	OVERHEADS & PROFIT @ 15 %				994.68
	TOTAL				7625.89
	Rate per Each				7625.89
	Say				7626.00

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 (Rs.)
	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	673.00	100.95
1007	Khallasi	day	0.15	553.00	82.95
	TOTAL				592.75
	Add 12% GST (MF = 0.1405)				83.28
	TOTAL				676.03
	OVERHEADS & PROFIT @ 15 %				101.40
	TOTAL				777.43
	Rate per Each				777.43
	Say				777.00

- 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 (Rs.)
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	673.00	168.25
1005	Fitter, Grade 2	day	0.15	612.00	91.80
1007	Khallasi	day	0.40	553.00	221.20
TOTAL					2058.26
Add 12% GST (MF = 0.1405)					289.19
TOTAL					2347.45
OVERHEADS & PROFIT @ 15 %					352.12
TOTAL					2699.57
Rate per Each					2699.57
Say					2700.00

- 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 (Rs.)
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	17173.00	12600.00

Total cost of materials					12600.00
Cartage @ 1 % of A1					126.00
LABOUR					
1003	Lineman	day	0.30	673.00	201.90
1007	Khallasi	day	0.30	553.00	165.90
TOTAL					13093.80
Add 12% GST (MF = 0.1405)					1839.68
TOTAL					14933.48
OVERHEADS & PROFIT @ 15 %					2240.02
TOTAL					17173.50
Rate per Each					17173.50
Say					17174.00

CHAPTER 14 – MISC. CIVIL ITEMS

- 14.1 Excavation for foundation in soft soil including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 metres.**

Details of cost for 10 cum

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1016	Mate	day	0.25	553.00	138.25
1012	Beldar/ coolie	day	4.25	553.00	2350.25
	TOTAL				2488.50
	Add 1% for water charges				24.89
	TOTAL				2513.39
	Add 12% GST (MF = 0.1405)				353.13
	TOTAL				2866.52
	OVERHEADS & PROFIT @ 15 %				429.98
	Cost for 10 cum				3296.50
	Rate per Cum				329.65
	Say				330.00

- 14.2 Excavation for cable trenches of depth upto 1.2 m in soft soil including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 metres.**

Details of cost for 10 cum

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1016	Mate	day	0.25	553.00	138.25
1012	Beldar/ coolie	day	4.30	553.00	2377.90
	TOTAL				2516.15
	Add 1% for water charges				25.16
	TOTAL				2541.31
	Add 12% GST (MF = 0.1405)				357.05
	TOTAL				2898.37
	OVERHEADS & PROFIT @ 15 %				434.75
	Cost for 10 cum				3333.12
	Rate per Cum				333.31
	Say				333.00

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 metres.

Details of cost for 10 cum

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1016	Mate	day	0.20	553.00	110.60
1012	Beldar/ coolie	day	2.50	553.00	1382.50
1013	Bhisti	day	0.20	553.00	110.60
	TOTAL				1603.70
	Add 1% for water charges				16.04
	TOTAL				1619.74
	Add 12% GST (MF = 0.1405)				227.57
	TOTAL				1847.31
	OVERHEADS & PROFIT @ 15 %				277.10
	Cost for 10 cum				2124.41
	Rate per Cum				212.44
	Say				212.00

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 metres.

Details of cost for 10 cum

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1016	Mate	day	0.25	553.00	138.25
1012	Beldar/ coolie	day	4.30	553.00	2377.90
1016	Mate	day	0.20	553.00	110.60
1012	Beldar/ coolie	day	2.50	553.00	1382.50
1013	Bhisti	day	0.20	553.00	110.60
	TOTAL				4119.85
	Add 1% for water charges				41.20
	TOTAL				4161.05
	Add 12% GST (MF = 0.1405)				584.63
	TOTAL				4745.68

OVERHEADS & PROFIT @ 15 %	711.85
Cost for 10 cum	5457.53
Rate per Cum	545.75
Say	546.00

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 (Rs.)
	LABOUR				
1016	Mate	day	0.20	553.00	110.60
1012	Beldar/ coolie	day	1.25	553.00	691.25
1013	Bhisti	day	0.20	553.00	110.60
	TOTAL				912.45
	Add 1% for water charges				9.12
	TOTAL				921.57
	Add 12% GST (MF = 0.1405)				129.48
	TOTAL				1051.06
	OVERHEADS & PROFIT @ 15 %				157.66
	Cost for 10 cum				1208.72
	Rate per Cum				120.87
	Say				121.00

14.6 Excavation of the cable trenches in hard rock not exceeding 1.5 metres in width, and lift upto 1.5 metres, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 metres.

Details of cost for 10 cum

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	LABOUR				
1015	Stone Breaker	day	5.00	612.00	3060.00
1014	Excavator	day	3.00	553.00	1659.00
1009	Blacksmith, Grade 2	day	0.20	612.00	122.40
1012	Beldar/ coolie	day	3.00	553.00	1659.00
1011	Stone Chiseler	day	2.00	612.00	1224.00
	TOTAL				7724.40
	Add 12% GST (MF = 0.1405)				1085.28

TOTAL	8809.68
OVERHEADS & PROFIT @ 15 %	1321.45
Cost for 10 cum	10131.13
Rate per Cum	1013.11
Say	1013.00

- 14.7 Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc including form work etc as required.**

Details of cost for 1 cum

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2950	Stone aggregate (single size) 20mm nominal size	cum	0.67	1410.00	944.70
2951	Stone aggregate (single size) 10mm nominal size	cum	0.22	1410.00	310.20
2952	Coarse sand (Zone III)	cum	0.450	1440.00	648.00
2948	Cement	tonne	0.32	6300.00	2016.00
	Total cost of materials				3918.90
	Cartage @ 1 % of A1				39.19
LABOUR					
1010	Mason, Grade 2	day	0.20	612.00	122.40
1012	Beldar/ coolie	day	1.80	553.00	995.40
1013	Bhisti	day	1.00	553.00	553.00
9999	Sundries	L.S.	70.00	1.00	70.00
	TOTAL				5698.89
	Add 1% for water charges				56.60
	TOTAL				5755.49
	Add 12% GST (MF = 0.1405)				808.65
	TOTAL				6564.13
	OVERHEADS & PROFIT @ 15 %				984.62
	TOTAL				7548.75
	Rate per Cum				7548.75
	Say				7549.00

- 14.8 Providing and laying in position cement concrete 1:3:6 (1 cement : 2 coarse sand : 6 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc including form work etc as required.**

Details of cost for 1 cum

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2950	Stone aggregate (single size) 20mm nominal size	cum	0.70	1410.00	987.00
2951	Stone aggregate (single size) 10mm nominal size	cum	0.24	1410.00	338.40
2952	Coarse sand (Zone III)	cum	0.47	1440.00	676.80
2948	Cement	tonne	0.22	6300.00	1386.00
Total cost of materials					3388.20
Cartage @ 1 % of A1					33.88
LABOUR					
1010	Mason, Grade 2	day	0.20	612.00	122.40
1012	Beldar/ coolie	day	1.80	553.00	995.40
1013	Bhisti	day	1.00	553.00	553.00
9999	Sundries	L.S.	70.00	1.00	70.00
TOTAL					5162.88
Add 1% for water charges					51.29
TOTAL					5214.17
Add 12% GST (MF = 0.1405)					732.59
TOTAL					5946.76
OVERHEADS & PROFIT @ 15 %					892.01
TOTAL					6838.77
Rate per Cum					6838.77
Say					6839.00

14.9 Providing and laying in position cement concrete 1:3:6 (1 cement : 2 coarse sand : 6 graded stone aggregate 40 mm nominal size) in foundation of pump, DG set etc including form work etc as required.

Details of cost for 1 cum

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2949	Stone aggregate (single size) 40mm nominal size	cum	0.65	1260.00	819.00
2950	Stone aggregate (single size) 20mm nominal size	cum	0.24	1410.00	338.40
2952	Coarse sand (Zone III)	cum	0.47	1440.00	676.80
2948	Cement	tonne	0.22	6300.00	1386.00
Total cost of materials					3220.20
Cartage @ 1 % of A1					32.20
LABOUR					
1010	Mason, Grade 2	day	0.20	612.00	122.40

1012	Beldar/ coolie	day	1.80	553.00	995.40
1013	Bhisti	day	1.00	553.00	553.00
9999	Sundries	L.S.	70.00	1.00	70.00
TOTAL					4993.20
Add 1% for water charges					49.61
TOTAL					5042.81
Add 12% GST (MF = 0.1405)					708.52
TOTAL					5751.33
OVERHEADS & PROFIT @ 15 %					862.70
TOTAL					6614.03
Rate per Cum					6614.03
Say					6614.00

14.10 Providing and laying in position reinforced cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc including form work etc as required (excluding reinforcement).

Details of cost for 1 cum

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2950	Stone aggregate (single size) 20mm nominal size	cum	0.67	1410.00	944.70
2951	Stone aggregate (single size) 10mm nominal size	cum	0.22	1410.00	310.20
2952	Coarse sand (Zone III)	cum	0.450	1440.00	648.00
2948	Cement	tonne	0.32	6300.00	2016.00
Total cost of materials					3918.90
Cartage @ 1 % of A1					39.19
LABOUR					
1010	Mason, Grade 2	day	0.25	612.00	153.00
1012	Beldar/ coolie	day	2.40	553.00	1327.20
1013	Bhisti	day	1.00	553.00	553.00
9999	Sundries	L.S.	70.00	1.00	70.00
TOTAL					6061.29
Add 1% for water charges					60.22
TOTAL					6121.51
Add 12% GST (MF = 0.1405)					860.07
TOTAL					6981.58
OVERHEADS & PROFIT @ 15 %					1047.24
TOTAL					8028.82
Rate per Cum					8028.82
Say					8029.00

14.11 Providing brick work (in width 225 mm or more) with F.P.S. bricks of class designation 7.5 in cement mortar 1:4 (1 cement : 4 coarse sand) at all levels.

Details of cost for 1 cum

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	494.00	4.00	1976.00
2952	Coarse sand (Zone III)	cum	0.270	1440.00	388.80
2948	Cement	tonne	0.100	6300.00	630.00
Total cost of materials					2994.80
Cartage @ 1 % of A1					29.95
LABOUR					
1010	Mason, Grade 2	day	0.90	612.00	550.80
1012	Beldar/ coolie	day	2.00	553.00	1106.00
1013	Bhisti	day	0.22	553.00	121.66
TOTAL					4803.21
Add 1% for water charges					47.73
TOTAL					4850.94
Add 12% GST (MF = 0.1405)					681.56
TOTAL					5532.50
OVERHEADS & PROFIT @ 15 %					829.87
TOTAL					6362.37
Rate per Cum					6362.37
Say					6362.00

14.12 Providing 15mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels.

Details of cost for 10 sqm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2946	Fine sand	cum	0.180	806.00	145.08
2948	Cement	tonne	0.0700	6300.00	441.00
Total cost of materials					586.08
Cartage @ 1 % of A1					5.86
LABOUR					
1010	Mason, Grade 2	day	1.00	612.00	612.00
1012	Beldar/ coolie	day	1.00	553.00	553.00
1013	Bhisti	day	1.00	553.00	553.00

TOTAL	2309.94
Add 1% for water charges	23.04
TOTAL	2332.98
Add 12% GST (MF = 0.1405)	327.78
TOTAL	2660.77
OVERHEADS & PROFIT @ 15 %	399.11
Cost for 10 Sqm	3059.88
Rate per Sqm	305.99
Say	306.00

14.13 Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc as required

14.13.1 50 mm dia

Details of cost for 30 Meters

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2832	50 mm dia. G.I. pipe (medium class)	metre	30.00	318.00	9540.00
	Total cost of materials				9540.00
	Cartage @ 1 % of A1				95.40
LABOUR					
1004	Fitter, Grade 1	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
1012	Beldar/ coolie	day	4.00	553.00	2212.00
	TOTAL				12251.98
	Add 12% GST (MF = 0.1405)				1721.40
	TOTAL				13973.38
	OVERHEADS & PROFIT @ 15 %				2096.01
	Cost for 30 Meters				16069.39
	Rate per Meters				535.65
	Say				536.00

14.13.2 80 mm dia

Details of cost for 30 Meters

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2833	80 mm dia. G.I. pipe (medium class)	metre	30.00	520.00	15600.00
	Total cost of materials				15600.00

	Cartage @ 1 % of A1				156.00
	LABOUR				
1004	Fitter, Grade 1	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
1012	Beldar/ coolie	day	4.00	553.00	2212.00
	TOTAL				18372.58
	Add 12% GST (MF = 0.1405)				2581.35
	TOTAL				20953.93
	OVERHEADS & PROFIT @ 15 %				3143.09
	Cost for 30 Meters				24097.02
	Rate per Meters				803.23
	Say				803.00

14.13.3 100 mm dia**Details of cost for 30 Meters**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2834	100 mm dia. G.I. pipe (medium class)	metre	30.00	754.00	22620.00
	Total cost of materials				22620.00
	Cartage @ 1 % of A1				226.20
	LABOUR				
1004	Fitter, Grade 1	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
1012	Beldar/ coolie	day	4.00	553.00	2212.00
	TOTAL				25462.78
	Add 12% GST (MF = 0.1405)				3577.52
	TOTAL				29040.30
	OVERHEADS & PROFIT @ 15 %				4356.05
	Cost for 30 Meters				33396.35
	Rate per Meters				1113.21
	Say				1113.00

14.13.4 150 mm dia**Details of cost for 30 Meters**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2835	150 mm dia. G.I. pipe (medium class)	metre	30.00	1187.00	35610.00
	Total cost of materials				35610.00

	Cartage @ 1 % of A1				356.10
	LABOUR				
1004	Fitter, Grade 1	day	0.33	673.00	222.09
1007	Khallasi	day	0.33	553.00	182.49
1012	Beldar/ coolie	day	4.00	553.00	2212.00
	TOTAL				38582.68
	Add 12% GST (MF = 0.1405)				5420.87
	TOTAL				44003.55
	OVERHEADS & PROFIT @ 15 %				6600.53
	Cost for 30 Meters				50604.08
	Rate per Meters				1686.80
	Say				1687.00

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 Meters

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2841	100 mm dia RCC pipe NP2 class	metre	10.00	156.00	1560.00
2845	100 mm dia RCC collar NP2 class	each	5.00	23.00	115.00
2948	Cement	tonne	0.010	6300.00	63.00
2946	Fine sand	cum	0.010	806.00	8.06
	Total cost of materials				1746.06
	Cartage @ 1 % of A1				17.46
	LABOUR				
1010	Mason, Grade 2	day	0.66	612.00	403.92
1012	Beldar/ coolie	day	0.66	553.00	364.98
1013	Bhisti	day	0.16	553.00	88.48
1012	Beldar/ coolie	day	2.50	553.00	1382.50
	TOTAL				4003.40
	Add 12% GST (MF = 0.1405)				562.48
	TOTAL				4565.88
	OVERHEADS & PROFIT @ 15 %				684.88
	Cost for 10 Meters				5250.76
	Rate per Meters				525.08
	Say				525.00

14.14.2 150 mm dia**Details of cost for 10 Meters**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2842	150 mm dia RCC pipe NP2 class	metre	10.00	178.00	1780.00
2846	150 mm dia RCC collar NP2 class	each	5.00	30.00	150.00
2948	Cement	tonne	0.010	6300.00	63.00
2946	Fine sand	cum	0.010	806.00	8.06
Total cost of materials					2001.06
Cartage @ 1 % of A1					20.01
LABOUR					
1010	Mason, Grade 2	day	0.80	612.00	489.60
1012	Beldar/ coolie	day	0.80	553.00	442.40
1013	Bhisti	day	0.16	553.00	88.48
1012	Beldar/ coolie	day	2.75	553.00	1520.75
TOTAL					4562.30
Add 12% GST (MF = 0.1405)					641.00
TOTAL					5203.30
OVERHEADS & PROFIT @ 15 %					780.50
Cost for 10 Meters					5983.80
Rate per Meters					598.38
Say					598.00

14.14.3 250 mm dia**Details of cost for 10 Meters**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
2843	250 mm dia RCC pipe NP2 class	metre	10.00	217.00	2170.00
2847	250 mm dia RCC collar NP2 class	each	5.00	46.00	230.00
2948	Cement	tonne	0.010	6300.00	63.00
2946	Fine sand	cum	0.010	806.00	8.06
Total cost of materials					2471.06
Cartage @ 1 % of A1					24.71
LABOUR					
1010	Mason, Grade 2	day	1.00	612.00	612.00
1012	Beldar/ coolie	day	1.00	553.00	553.00

1013	Bhisti	day	0.20	553.00	110.60
1012	Beldar/ coolie	day	2.85	553.00	1576.05
	TOTAL				5347.42
	Add 12% GST (MF = 0.1405)				751.31
	TOTAL				6098.73
	OVERHEADS & PROFIT @ 15 %				914.81
	Cost for 10 Meters				7013.54
	Rate per Meters				701.35
	Say				701.00

14.14.4 300 mm dia**Details of cost for 10 Meters**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIALS				
2844	300 mm dia RCC pipe NP2 class	metre	10.00	301.00	3010.00
2848	300 mm dia RCC collar NP2 class	each	4.00	56.00	224.00
2948	Cement	tonne	0.010	6300.00	63.00
2946	Fine sand	cum	0.020	806.00	16.12
	Total cost of materials				3313.12
	Cartage @ 1 % of A1				33.13
	LABOUR				
1010	Mason, Grade 2	day	1.20	612.00	734.40
1012	Beldar/ coolie	day	1.20	553.00	663.60
1013	Bhisti	day	0.20	553.00	110.60
1012	Beldar/ coolie	day	3.00	553.00	1659.00
	TOTAL				6513.85
	Add 12% GST (MF = 0.1405)				915.20
	TOTAL				7429.05
	OVERHEADS & PROFIT @ 15 %				1114.36
	Cost for 10 Meters				8543.41
	Rate per Meters				854.34
	Say				854.00

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.

14.15.1 63 mm dia (OD-63 mm & ID-51 mm nominal)**Details of cost for 50 meter**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
2891	63 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5 m	metre	52.50	67.00	3517.50
2896	63 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	16.00	32.00
	Total cost of materials				3549.50
	Cartage @ 1 %				35.50
LABOUR					
1007	Khallasi (2 nos for 0.5 day)	day	1.00	553.00	553.00
	TOTAL				4138.00
	Add 12% GST (MF = 0.1405)				581.39
	TOTAL				4719.38
	Add 15 % Over Head & Contractor Profit				707.91
	TOTAL				5427.29
	Cost for 50 meter				5427.29
	Rate per meter				108.55
	Say				109.00

14.15.2 90 mm dia (OD-90 mm & ID-76 mm nominal)**Details of cost for 50 meter**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
2892	90 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	metre	52.50	96.00	5040.00
2897	90 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	25.00	27.00
	Total cost of materials				5067.00
	Cartage @ 1 %				50.67
LABOUR					
1007	Khallasi (2 nos for 0.5 day)	day	1.00	553.00	553.00
	TOTAL				5670.67
	Add 12% GST (MF = 0.1405)				796.73
	TOTAL				6467.40
	Add 15 % Over Head & Contractor Profit				970.11
	TOTAL				7437.51

Cost for 50 meter	7437.51
Rate per meter	148.75
Say	149.00

14.15.3 120 mm dia (OD-120 mm & ID-103 mm nominal)**Details of cost for 50 meter**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
2893	120 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	metre	52.50	156.00	8190.00
2898	120 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	30.00	60.00
	Total cost of materials				8250.00
	Cartage @ 1 %				82.50
LABOUR					
1007	Khallasi (2 nos for 0.75 day)	day	1.50	553.00	829.50
	TOTAL				9162.00
	Add 12% GST (MF = 0.1405)				1287.26
	TOTAL				10449.26
	Add 15 % Over Head & Contractor Profit				1567.39
	TOTAL				12016.65
	Cost for 50 meter				12016.65
	Rate per meter				240.33
	Say				240.00

14.15.4 160 mm dia (OD-160 mm & ID-135 mm nominal)**Details of cost for 50 meter**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
2894	160 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	metre	52.50	234.00	12285.00
2899	160 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	60.00	120.00
	Total cost of materials				12405.00
	Cartage @ 1 %				124.05
LABOUR					

1007	Khallasi (2 nos for 1.0 day)	day	2.00	553.00	1106.00
	TOTAL				13635.05
	Add 12% GST (MF = 0.1405)				1915.72
	TOTAL				15550.77
	Add 15 % Over Head & Contractor Profit				2332.62
	TOTAL				17883.39
	Cost for 50 meter				17883.39
	Rate per meter				357.67
	Say				358.00

14.15.5 200 mm dia (OD-200 mm & ID-175 mm nominal)

Details of cost for 50 meter

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
2895	200 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	metre	52.50	334.00	17535.00
2900	200 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	80.00	160.00
	Total cost of materials				17695.00
	Cartage @ 1 %				176.95
	LABOUR				
1007	Khallasi (2 nos for 1.0 day)	day	2.00	553.00	1106.00
	TOTAL				18977.95
	Add 12% GST (MF = 0.1405)				2666.40
	TOTAL				21644.35
	Add 15 % Over Head & Contractor Profit				3246.65
	TOTAL				24891.00
	Cost for 50 meter				24891.00
	Rate per meter				497.82
	Say				498.00

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.

14.16.1 63 mm dia (OD-63 mm & ID-51 mm nominal)

Details of cost for 50 meter

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
2891	63 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5 m	metre	52.50	67.00	3517.50
2896	63 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	16.00	32.00
	Total cost of materials				3549.50
	Cartage @ 1 %				35.50
LABOUR					
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				4138.00
	Add 12% GST (MF = 0.1405)				581.39
	TOTAL				4719.38
	Add 15 % Over Head & Contractor Profit				707.91
	Excavation i/c refilling etc. as required	cu.m	9.19	546.00	5017.74
	TOTAL				10445.03
	Cost for 50 meter				10445.03
	Rate per meter				208.90
	Say				209.00

14.16.2 90 mm dia (OD-90 mm & ID-76 mm nominal)**Details of cost for 50 meter**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
2892	90 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	metre	52.50	96.00	5040.00
2897	90 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	25.00	27.00
	Total cost of materials				5067.00
	Cartage @ 1 %				50.67
LABOUR					
1007	Khallasi	day	1.00	553.00	553.00
	TOTAL				5670.67
	Add 12% GST (MF = 0.1405)				796.73
	TOTAL				6467.40
	Add 15 % Over Head & Contractor Profit				970.11

Excavation i/c refilling etc. as required	cu.m	9.19	546.00	5017.74
TOTAL				12455.25
Cost for 50 meter				12455.25
Rate per meter				249.10
Say				249.00

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 (Rs.)
	MATERIAL				
2893	120 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	metre	52.50	156.00	8190.00
2898	120 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	30.00	60.00
	Total cost of materials				8250.00
	Cartage @ 1 %				82.50
	LABOUR				
1007	Khallasi	day	1.50	553.00	829.50
	TOTAL				9162.00
	Add 12% GST (MF = 0.1405)				1287.26
	TOTAL				10449.26
	Add 15 % Over Head & Contractor Profit				1567.39
	Excavation i/c refilling etc. as required	cu.m	9.19	546.00	5017.74
	TOTAL				17034.39
	Cost for 50 meter				17034.39
	Rate per meter				340.69
	Say				341.00

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 (Rs.)
	MATERIAL				
2894	160 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	metre	52.50	234.00	12285.00
2899	160 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	60.00	120.00
	Total cost of materials				12405.00
	Cartage @ 1 %				124.05

LABOUR					
1007	Khallasi	day	2.00	553.00	1106.00
TOTAL					13635.05
Add 12% GST (MF = 0.1405)					1915.72
TOTAL					15550.77
Add 15 % Over Head & Contractor Profit					2332.62
	Excavation i/c refilling etc. as required	cu.m	9.19	546.00	5017.74
TOTAL					22901.13
Cost for 50 meter					22901.13
Rate per meter					458.02
Say					458.00

14.16.5 200 mm dia (OD-200 mm & ID-175 mm nominal)**Details of cost for 50 meter**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
2895	200 mm dia (OD) DWC HDPE Pipe = 50 + 2.5 (Wastage @ 5%) = 52.5	metre	52.50	334.00	17535.00
2900	200 mm dia (OD) DWC HDPE Pipe Coupler = 2.0 nos.	each	2.00	80.00	160.00
Total cost of materials					17695.00
Cartage @ 1 %					176.95
LABOUR					
1007	Khallasi	day	2.00	553.00	1106.00
TOTAL					18977.95
Add 12% GST (MF = 0.1405)					2666.40
TOTAL					21644.35
Add 15 % Over Head & Contractor Profit					3246.65
	Excavation i/c refilling etc. as required	cu.m	9.19	546.00	5017.74
TOTAL					29908.74
Cost for 50 meter					29908.74
Rate per meter					598.17
Say					598.00

CHAPTER 15-LIGHTING CONTROLS

- 15.1 Supplying, installation, testing and commissioning of Passive Infrared (PIR) technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10Amp, 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 (Rs.)
MATERIALS					
1445	Passive Infrared (PIR) technology based occupancy sensor having high performance non regulating programmable type having suitable for connected load upto 10Amp and suitable for mounting up to height of 2.8 mtr 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	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				3460.03
	Add 12% GST (MF = 0.1405)				486.13
	TOTAL				3946.16
	OVERHEADS & PROFIT @ 15 %				591.92
	TOTAL				4538.08
	Rate for 1nos.				4538.08
	Say				4538.00

- 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 performance, regulating programmable type, suitable for connected load upto 10Amp, 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 (Rs.)
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 10Amp and suitable for mounting up to height of 2.8 mtr and suitable for area of minimum diameter 5m	each	1	4532.00	4532
	Cartage @ 1 % of A1				45.32
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				4822.52
	Add 12% GST (MF = 0.1405)				677.56
	TOTAL				5500.08
	OVERHEADS & PROFIT @ 15 %				825.01
	TOTAL				6325.09
	Rate for 1nos.				6325.09
	Say				6325.00

- 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 10Amp , 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 (Rs.)
MATERIALS					
1447	Microwave technology based occupancy sensor having high preformance non regulating programmable type having suitable for connected load upto 10Amp and suitable for mounting up to height of 2.6 mtr and suitable for area of minimum 5m X 20m	each	1	6261.00	6261
	Cartage @ 1 % of A1				62.61
LABOUR					
1001	Wireman	day	0.20	673.00	134.60

1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				6568.81
	Add 12% GST (MF = 0.1405)				922.92
	TOTAL				7491.73
	OVERHEADS & PROFIT @ 15 %				1123.76
	TOTAL				8615.49
	Rate for 1nos.				8615.49
	Say				8615.00

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 (Rs.)
	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	2518.00	2518
	Cartage @ 1 % of A1				25.18
	LABOUR				
1001	Wireman	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				2788.38
	Add 12% GST (MF = 0.1405)				391.77
	TOTAL				3180.15
	OVERHEADS & PROFIT @ 15 %				477.02
	TOTAL				3657.17
	Rate for 1nos.				3657.17
	Say				3657.00

15.4.2 2 output per phase and suitable for single phase supply**COST FOR 1 nos.**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	5445.00	5445
	Cartage @ 1 % of A1				54.45
LABOUR					
1001	Wireman	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
TOTAL					5744.65
Add 12% GST (MF = 0.1405)					807.12
TOTAL					6551.77
OVERHEADS & PROFIT @ 15 %					982.77
TOTAL					7534.54
Rate for 1nos.					7534.54
Say					7535.00

15.4.3 3output(1output per phase) and suitable for three phase supply**COST FOR 1 nos.**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIALS					
1450	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 3 output (1output per phase) and suitable for three phase supply	each	1	6424.00	6424

	Cartage @ 1 % of A1				64.24
	LABOUR				
1001	Wireman	day	0.20	673.00	134.60
1007	Khallasi	day	0.20	553.00	110.60
	TOTAL				6733.44
	Add 12% GST (MF = 0.1405)				946.05
	TOTAL				7679.49
	OVERHEADS & PROFIT @ 15 %				1151.92
	TOTAL				8831.41
	Rate for 1nos.				8831.41
	Say				8831.00

CHAPTER-16 HVAC (ONLY PLUMBING, DUCTING & AHUs)

PLUMBING

- Item code 16.1** **INSULATED CHILLED WATER PIPING (resin bonded fiber glass / Mineral Wool INSULATION)**
- 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 / cum 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 type3 , 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)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
3001	A(1) Basic Price M.S. Pipe - 400 mm dia. add for wastage@5% Total of (A1)	per meter	10	6049.00	60490.00 3024.50 63514.50
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15% Total of (A1+A2)				9527.18 73041.68
4001	A(3) Basic Price of Insulation (pipe section) - 75 mm add for wastage@10% Total of (A3)	per meter	10	1733.00	17330.00 1733.00 19063.00
3023	A(4) Pipe aluminium Cladding Add for wastage@10% Total of(A4) Total of (A(1)+A(2)+A(3)+A(4)) Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4)) 986.99	per sq meter	16.6526	360.00	5994.94 599.49 6594.43 98699.10

	Total of A				99686.10
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	673.00	2019.00
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.75	612.00	459.00
1007	Helper	per day	4.75	553.00	2626.75
	Total of B(1)				5777.75
	B(2) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(2)				1532.50
	B(3) For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B (3)				1532.50
	Total of B				8842.75
	Total A+B				108528.85
	Add 12% GST (MF = 0.1405)				15248.30
	TOTAL				123777.15
	C Overhead and Profits @ 15% of (A+B)				18566.57
	Total				142343.72
	Rate for 1 meter				14234.37
	TOTAL				14234.37
	OR SAY Rs.				14234.00

16.1.2 Chilled water piping of nominal size - 350mm dia. (75mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3002	A(1) Basic Price M.S. Pipe - 350 mm dia.per meter		10	3381.30	33813.00
	add for wastage@5%				1690.65
	Total of (A1)				35503.65
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				5325.55

	Total of (A1+A2)				40829.20
4002	A(3) Basic Price of Insulation -	per meter	10	1549.00	15490.00
	75 mm				
	add for wastage@10%				1549.00
	Total of A(3)				17039.00
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))				63840.51
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				638.41
	Total of A				64478.92
	B (Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	673.00	2019.00
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.75	612.00	459.00
1007	Helper	per day	4.75	553.00	2626.75
	Total of B(1)				5777.75
	B(2) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(2)				1532.50
	For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
	Helper	per day	1.25	553.00	691.25
	Total of B (3)				1532.50
	Total of B				8842.75
	Total A+B				73321.67
	Add 12% GST (MF = 0.1405)				10301.69
	TOTAL				83623.36
	C Overhead and Profits @ 15% of (A+B)				12543.50
	Total				96166.86
	Rate for 1 meter				9616.69
	TOTAL				9616.69
	OR SAY Rs.				9617.00

16.1.3 Chilled water piping of nominal size - 300mm dia. (75mm thick insulation) (ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3003	A(1) Basic Price M.S. Pipe - 300 mm dia.	per meter	10	2826.22	28262.20
	add for wastage@5%				1413.11
	Total of (A1)				29675.31
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				4451.30
	Total of (A1+A2)				34126.61
4003	A(3) Basic Price of Insulation (Pipe Section) - 75 mm	per meter	10	1270.00	12700.00
	add for wastage@10%				1270.00
	Total of A(3)				13970.00
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))				53446.80
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				534.47
	Total of A				53981.27
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	673.00	2019.00
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.75	612.00	459.00
1007	Helper	per day	4.75	553.00	2626.75
	Total of B(1)				5777.75
	B(2) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(2)				1532.50
	For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B (3)				1532.50
	Total of B				8842.75
	Total A+B				62824.02

Add 12% GST (MF = 0.1405)	8826.78
TOTAL	71650.80
C Overhead and Profits @ 15% of (A+B)	10747.62
Total	82398.42
Rate for 1 meter	8239.84
TOTAL	8239.84
OR SAY Rs.	8240.00

**16.1.4 Chilled water piping of nominal size - 250mm dia. (75mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
3004	A(1) Basic Price M.S. Pipe - 250 mm dia. add for wastage@5%	per meter	10	2354.78	23547.80 1177.39
	Total of (A1)				24725.19
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				3708.78
	Total of (A1+A2)				28433.97
4004	A(3) Basic Price of Insulation - 75 mm add for wastage@10%	per meter	10	1109.00	11090.00 1109.00
	Total of A(3)				12199.00
3023	A(4) Pipe aluminium Cladding add for wastage@10%	per sq meter	10.997	360.00	3958.92 395.89
	Total of A(4)				4354.81
	Total of (A(1)+A(2)+A(3)+A(4))				44987.78
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				449.88
	Total of A				45437.66
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	673.00	1682.50
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.5	612.00	306.00
1007	Helper	per day	4	553.00	2212.00
	Total of B(1)				4873.50
	B(2) For Insulation works				

1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B(2)				1226.00
	For Cladding works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B (3)				1226.00
	Total of B				7325.50
	Total A+B				52763.16
	Add 12% GST (MF = 0.1405)				7413.22
	TOTAL				60176.38
	C Overhead and Profits @ 15% of (A+B)				9026.46
	Total				69202.84
	Rate for 1 meter				6920.28
	TOTAL				6920.28
	OR SAY Rs.				6920.00

**16.1.5 Chilled water piping of nominal size - 200mm dia. (75mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3005	A(1) Basic Price M.S. Pipe - 200 mm dia.	per meter	10	1883.82	18838.20
	add for wastage@5%				941.91
	Total of (A1)				19780.11
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				2967.02
	Total of (A1+A2)				22747.13
4005	A(3) Basic Price of Insulation - 75 mm	per meter	10	939.00	9390.00
	add for wastage@10%				939.00
	Total of A(3)				10329.00
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))				36808.82

	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				
	368.09				
	Total of A				37176.91
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	673.00	1682.50
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.5	612.00	306.00
1007	Helper	per day	4	553.00	2212.00
	Total of B(1)				4873.50
	B(2) For Insulation works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B(2)				1226.00
	For Cladding works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B (3)				1226.00
	Total of B				7325.50
	Total A+B				44502.41
	Add 12% GST (MF = 0.1405)				6252.59
	TOTAL				50755.00
	C Overhead and Profits @ 15% of (A+B)				7613.25
	Total				58368.25
	Rate for 1 meter				5836.82
	TOTAL				5836.82
	OR SAY Rs.				5837.00

16.1.6 Chilled water piping of nominal size - 150mm dia. (50mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3006	A(1) Basic Price M.S. Pipe - 150 mm dia.	per meter	10	1076.37	10763.70
	add for wastage@5%				538.19
	Total of (A1)				11301.89
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1695.28

	Total of (A1+A2)				12997.17
4006	A(3) Basic Price of Insulation - 50 mm	per meter	10	475.00	4750.00
	add for wastage@10%				475.00
	Total of A(3)				5225.00
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))				21332.75
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				213.33
	Total of A				21546.08
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.5	612.00	306.00
1007	Helper	per day	3.5	553.00	1935.50
	Total of B(1)				4260.50
	B(2) For Insulation works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B(2)				1226.00
	For Cladding works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B (3)				1226.00
	Total of B				6712.50
	Total A+B				28258.58
	Add 12% GST (MF = 0.1405)				3970.33
	TOTAL				32228.91
	C Overhead and Profits @ 15% of (A+B)				4834.34
	Total				37063.24
	Rate for 1 meter				3706.32
	TOTAL				3706.32
	OR SAY Rs.				3706.00

**16.1.7 Chilled water piping of nominal size - 125mm dia. (50mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3007	A(1) Basic Price M.S. Pipe - 125 mm dia.	per meter	10	912.33	9123.30
	add for wastage@5%				456.17
	Total of (A1)				9579.47
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1436.92
	Total of (A1+A2)				11016.38
4007	A(3) Basic Price of Insulation - 50 mm	per meter	10	419.00	4190.00
	add for wastage@10%				419.00
	Total of A(3)				4609.00
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))				18176.06
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				181.76
	Total of A				18357.82
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	0.75	673.00	504.75
1006	Painter	per day	0.5	612.00	306.00
1007	Helper	per day	3.25	553.00	1797.25
	Total of B(1)				3954.00
	B(2) For Insulation works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B(2)				919.50
	For Cladding works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B (3)				919.50

Total of B	5793.00
Total A+B	24150.82
Add 12% GST (MF = 0.1405)	3393.19
TOTAL	27544.01
C Overhead and Profits @ 15% of (A+B)	4131.60
Total	31675.61
Rate for 1 meter	3167.56
TOTAL	3167.56
OR SAY Rs.	3168.00

**16.1.8 Chilled water piping of nominal size - 100mm dia. (50mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3008	A(1) Basic Price M.S. Pipe - 100 mm dia.	per meter	10	743.88	7438.80
	add for wastage@5%				371.94
	Total of (A1)				7810.74
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1171.61
	Total of (A1+A2)				8982.35
4008	A(3) Basic Price of Insulation - 50 mm	per meter	10	188.16	1881.60
	add for wastage@10%				188.16
	Total of A(3)				2069.76
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))				13291.73
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				132.92
	Total of A				13424.65
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	673.00	1682.50
1087	Welder	per day	0.75	673.00	504.75
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	3.25	553.00	1797.25

	Total of B(1)				4137.50
	B(2) For Insulation works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B(2)				919.50
	For Cladding works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B (3)				919.50
	Total of B				5976.50
	Total A+B				19401.15
	Add 12% GST (MF = 0.1405)				2725.86
	TOTAL				22127.01
	C Overhead and Profits @ 15% of (A+B)				3319.05
	Total				25446.06
	Rate for 1 meter				2544.61
	TOTAL				2544.61
	OR SAY Rs.				2545.00

**16.1.9 Chilled water piping of nominal size - 80mm dia. (50mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3009	A(1) Basic Price M.S. Pipe - 80 mm dia.	per meter	10	502.24	5022.40
	add for wastage@5%				251.12
	Total of (A1)				5273.52
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				791.03
	Total of (A1+A2)				6064.55
4009	A(3) Basic Price of Insulation - 50 mm	per meter	10	310.00	3100.00
	add for wastage@10%				310.00
	Total of A(3)				3410.00
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))					11092.05
Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))					110.92
Total of A					11202.97
B(Labour)					
B(1) For Piping work					
1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.75	553.00	1520.75
Total of B(1)					3356.25
B(2) For Insulation works					
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
Total of B(2)					919.50
For Cladding works					
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
Total of B (3)					919.50
Total of B					5195.25
Total A+B					16398.22
Add 12% GST (MF = 0.1405)					2303.95
TOTAL					18702.17
C Overhead and Profits @ 15% of (A+B)					2805.33
Total					21507.50
Rate for 1 meter					2150.75
TOTAL					2150.75
OR SAY Rs.					2151.00

16.1.10 Chilled water piping of nominal size - 65mm dia. (50mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
3010	A(1) Basic Price M.S. Pipe - 65 mm dia.	per meter	10	397.95	3979.50
	add for wastage@5%				198.98
	Total of (A1)				4178.48
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				626.77

	Total of (A1+A2)				4805.25
4010	A(3) Basic Price of Insulation - 50 mm	per meter	10	281.00	2810.00
	add for wastage@10%				281.00
	Total of A(3)				3091.00
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))				9327.11
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				93.27
	Total of A				9420.38
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.75	553.00	1520.75
	Total of B(1)				3356.25
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B (3)				613.00
	Total of B				4582.25
	Total A+B				14002.63
	Add 12% GST (MF = 0.1405)				1967.37
	TOTAL				15970.00
	C Overhead and Profits @ 15% of (A+B)				2395.50
	Total				18365.50
	Rate for 1 meter				1836.55
	TOTAL				1836.55
	OR SAY Rs.				1837.00

16.1.11 Chilled water piping of nominal size - 50mm dia. (50mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3011	A(1) Basic Price M.S. Pipe - 50 mm dia.	per meter	10	314.87	3148.70
	add for wastage@5%				157.44
	Total of (A1)				3306.14
	A(2) Add for necessary brackets,supports,saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				495.92
	Total of (A1+A2)				3802.06
4011	A(3) Basic Price of Insulation - 50 mm	per meter	10	245.00	2450.00
	add for wastage@10%				245.00
	Total of A(3)				2695.00
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))				7741.29
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				77.41
	Total of A				7818.70
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	673.00	1009.50
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.25	553.00	1244.25
	Total of B(1)				2743.25
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0.5	673.00	336.50

1007	Helper	per day	0.5	553.00	276.50
	Total of B (3)				613.00
	Total of B				3969.25
	Total A+B				11787.95
	Add 12% GST (MF = 0.1405)				1656.21
	TOTAL				13444.16
	C Overhead and Profits @ 15% of (A+B)				2016.62
	Total				15460.78
	Rate for 1 meter				1546.08
	TOTAL				1546.08
	OR SAY Rs.				1546.00

**16.1.12 Chilled water piping of nominal size - 40mm dia. (50mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3012	A(1) Basic Price M.S. Pipe - 40 mm dia.	per meter	10	223.92	2239.20
	add for wastage@5%				111.96
	Total of (A1)				2351.16
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				352.67
	Total of (A1+A2)				2703.83
4012	A(3) Basic Price of Insulation - 50 mm	per meter	10	221.00	2210.00
	add for wastage@10%				221.00
	Total of A(3)				2431.00
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))				6254.64
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				62.55
	Total of A				6317.19
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	673.00	1009.50

1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.25	553.00	1244.25
	Total of B(1)				2743.25
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B (3)				613.00
	Total of B				3969.25
	Total A+B				10286.44
	Add 12% GST (MF = 0.1405)				1445.24
	TOTAL				11731.68
	C Overhead and Profits @ 15% of (A+B)				1759.75
	Total				13491.44
	Rate for 1 meter				1349.14
	TOTAL				1349.14
	OR SAY Rs.				1349.00

16.1.13 Chilled water piping of nominal size - 32mm dia. (50mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3013	A(1) Basic Price M.S. Pipe - 32 mm dia.	per meter	10	191.72	1917.20
	add for wastage@5%				95.86
	Total of (A1)				2013.06
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				301.96
	Total of (A1+A2)				2315.02

4013	A(3) Basic Price of Insulation -	per meter	10	208.00	2080.00
	50 mm				
	add for wastage@10%				208.00
	Total of A(3)				2288.00
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))				5623.29
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				56.23
	Total of A				5679.52
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.25	673.00	841.25
1087	Welder	per day	0.25	673.00	168.25
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	1.75	553.00	967.75
	Total of B(1)				2130.25
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B (3)				613.00
	Total of B				3356.25
	Total A+B				9035.77
	Add 12% GST (MF = 0.1405)				1269.53
	TOTAL				10305.30
	C Overhead and Profits @ 15% of (A+B)				1545.79
	Total				11851.09
	Rate for 1 meter				1185.11
	TOTAL				1185.11
	OR SAY Rs.				1185.00

16.1.14 Chilled water piping of nominal size - 25mm dia. (50mm thick insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3014	A(1) Basic Price M.S. Pipe - 25 mm dia. per meter		10	147.39	1473.90
	add for wastage@5%				73.70
	Total of (A1)				1547.60
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				232.14
	Total of (A1+A2)				1779.73
4014	A(3) Basic Price of Insulation - 50 mm per meter		10	189.00	1890.00
	add for wastage@10%				189.00
	Total of A(3)				2079.00
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))				4791.91
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				47.92
	Total of A				4839.83
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.25	673.00	841.25
1087	Welder	per day	0.25	673.00	168.25
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	1.75	553.00	967.75
	Total of B(1)				2130.25
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B (3)				613.00

Total of B	3356.25
Total A+B	8196.08
Add 12% GST (MF = 0.1405)	1151.55
TOTAL	9347.63
C Overhead and Profits @ 15% of (A+B)	1402.14
Total	10749.77
Rate for 1 meter	1074.98
TOTAL	1074.98
OR SAY Rs.	1075.00

- 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.

Item No.

- 16.2.1 Chilled water piping of nominal size - 400mm dia. (32mm thick nitrile rubber insulation)**

(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3001	A(1) Basic Price M.S. Pipe - 400 mm dia.per meter		10	6049.00	60490.00
	add for wastage@5%				3024.50
	Total of (A1)				63514.50
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				9527.18
	Total of (A1+A2)				73041.68
4015	A(3) Basic Price of Insulation	per sq meter	12.568	627.00	7880.14
	- 32 mm nitrile rubber				
	add for wastage@10%				788.01
	Total of A(3)				8668.15

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))				81709.82
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				817.10
	Total of A				82526.92
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	673.00	2019.00
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.75	612.00	459.00
1007	Helper	per day	4.75	553.00	2626.75
	Total of B(1)				5777.75
	B(2) For Insulation works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B(2)				1226.00
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				7003.75
	Total A+B				89530.67
	Add 12% GST (MF = 0.1405)				12579.06
	TOTAL				102109.73
	C Overhead and Profits @ 15% of (A+B)				15316.46
	Total				117426.19
	Rate for 1 meter				11742.62
	TOTAL				11742.62
	OR SAY Rs.				11743.00

16.2.2 Chilled water piping of nominal size - 350mm dia. (32mm thick nitrile rubber)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3002	A(1) Basic Price M.S. Pipe - 350 mm dia.per meter		10	3381.30	33813.00
	add for wastage@5%				1690.65

	Total of (A1)				35503.65
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				5325.55
	Total of (A1+A2)				40829.20
4015	A(3) Basic Price of Insulation	per sq meter	10.997	627.00	6895.12
	- 32 mm nitrile rubber				
	add for wastage@10%				689.51
	Total of A(3)				7584.63
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))				48413.83
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				484.14
	Total of A				48897.97
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	673.00	2019.00
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.75	612.00	459.00
1007	Helper	per day	4.75	553.00	2626.75
	Total of B(1)				5777.75
	B(2) For Insulation works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B(2)				1226.00
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				7003.75
	Total A+B				55901.72
	Add 12% GST (MF = 0.1405)				7854.19
	TOTAL				63755.91
	C Overhead and Profits @ 15% of (A+B)				9563.39
	Total				73319.29
	Rate for 1 meter				7331.93
	TOTAL				7331.93
	OR SAY Rs.				7332.00

16.2.3 Chilled water piping of nominal size - 300mm dia. (32mm thick nitrile rubber insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3003	A(1) Basic Price M.S. Pipe - 300 mm dia.per meter		10	2826.22	28262.20
	add for wastage@5%				1413.11
	Total of (A1)				29675.31
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				4451.30
	Total of (A1+A2)				34126.61
4015	A(3) Basic Price of Insulation per sq meter	9.429		627.00	5911.98
	- 32 mm nitrile rubber				
	add for wastage@10%				591.20
	Total of A(3)				6503.18
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))				40629.79
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				406.30
	Total of A				41036.09
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	673.00	2019.00
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.75	361.00	270.75
1007	Helper	per day	4.75	553.00	2626.75
	Total of B(1)				5589.50
	B(2) For Insulation works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B(2)				1226.00
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00

Total of B (3)	0.00
Total of B	6815.50
Total A+B	47851.59
Add 12% GST (MF = 0.1405)	6723.15
TOTAL	54574.73
C Overhead and Profits @ 15% of (A+B)	8186.21
Total	62760.94
Rate for 1 meter	6276.09
TOTAL	6276.09
OR SAY Rs.	6276.00

16.2.4 Chilled water piping of nominal size - 250mm dia. (32mm thick nitrile rubber insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3004	A(1) Basic Price M.S. Pipe - 250 mm dia.per meter		10	2354.78	23547.80
	add for wastage@5%				1177.39
	Total of (A1)				24725.19
	A(2) Add for necessary brackets,supports,saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				3708.78
	Total of (A1+A2)				28433.97
4015	A(3) Basic Price of Insulation - 32 mm nitrile rubber	per sq meter	9.426	627.00	5910.10
	add for wastage@10%				591.01
	Total of A(3)				6501.11
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))				34935.08
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				349.35
	Total of A				35284.43
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	673.00	1682.50

1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.5	612.00	306.00
1007	Helper	per day	4	553.00	2212.00
	Total of B(1)				4873.50
	B(2) For Insulation works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B(2)				919.50
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				5793.00
	Total A+B				41077.43
	Add 12% GST (MF = 0.1405)				5771.38
	TOTAL				46848.81
	C Overhead and Profits @ 15% of (A+B)				7027.32
	Total				53876.13
	Rate for 1 meter				5387.61
	TOTAL				5387.61
	OR SAY Rs.				5388.00

**16.2.5 Chilled water piping of nominal size - 200mm dia. (32mm thick nitrile rubber)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3005	A(1) Basic Price M.S. Pipe - 200 mm dia.per meter		10	1883.82	18838.20
	add for wastage@5%				941.91
	Total of (A1)				19780.11
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				2967.02
	Total of (A1+A2)				22747.13
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber	per sq meter	6.5	627.00	4075.50
	add for wastage@10%				407.55

	Total of A(3)				4483.05
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))				27230.18
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				272.30
	Total of A				27502.48
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	673.00	1682.50
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.5	612.00	306.00
1007	Helper	per day	4	553.00	2212.00
	Total of B(1)				4873.50
	B(2) For Insulation works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B(2)				919.50
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				5793.00
	Total A+B				33295.48
	Add 12% GST (MF = 0.1405)				4678.01
	TOTAL				37973.49
	C Overhead and Profits @ 15% of (A+B)				5696.02
	Total				43669.52
	Rate for 1 meter				4366.95
	TOTAL				4366.95
	OR SAY Rs.				4367.00

16.2.6 Chilled water piping of nominal size - 150mm dia. (32mm thick nitrile rubber)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3006	A(1) Basic Price M.S. Pipe - 150 mm dia.per meter		10	1076.37	10763.70
	add for wastage@5%				538.19
	Total of (A)				11301.89

	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1695.28
	Total of (A1+A2)				12997.17
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber	per sq meter	4.75	627.00	2978.25
	add for wastage@10%				297.83
	Total of A(3)				3276.08
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))				16273.24
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				162.73
	Total of A				16435.98
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	673.00	1682.50
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.5	612.00	306.00
1007	Helper	per day	4	553.00	2212.00
	Total of B(1)				4873.50
	B(2) For Insulation works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B(2)				919.50
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				5793.00
	Total A+B				22228.98
	Add 12% GST (MF = 0.1405)				3123.17
	TOTAL				25352.15
	C Overhead and Profits @ 15% of (A+B)				3802.82
	Total				29154.97
	Rate for 1 meter				2915.50
	TOTAL				2915.50
	OR SAY Rs.				2915.00

16.2.7 Chilled water piping of nominal size - 125mm dia. (32mm thick nitrile rubber insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3007	A(1) Basic Price M.S. Pipe - 125 mm dia.per meter		10	912.33	9123.30
	add for wastage@5%				456.17
	Total of (A1)				9579.47
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1436.92
	Total of (A1+A2)				11016.38
4015	A(3) Basic Price of Insulation per sq meter		4.5	627.00	2821.50
	- 32 mm thick nitrile rubber				
	add for wastage@10%				282.15
	Total of A(3)				3103.65
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))				14120.03
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				141.20
	Total of A				14261.24
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	673.00	1682.50
1087	Welder	per day	0.75	673.00	504.75
1006	Painter	per day	0.5	612.00	306.00
1007	Helper	per day	3.75	553.00	2073.75
	Total of B(1)				4567.00
	B(2) For Insulation works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B(2)				919.50
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00

Total of B	5486.50
Total A+B	19747.74
Add 12% GST (MF = 0.1405)	2774.56
TOTAL	22522.29
C Overhead and Profits @ 15% of (A+B)	3378.34
Total	25900.64
Rate for 1 meter	2590.06
TOTAL	2590.06
OR SAY Rs.	2590.00

16.2.8 Chilled water piping of nominal size - 100mm dia. (32mm thick nitrile rubber insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3008	A(1) Basic Price M.S. Pipe - 100 mm dia.per meter		10	743.88	7438.80
	add for wastage@5%				371.94
	Total of (A1)				7810.74
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1171.61
	Total of (A1+A2)				8982.35
4015	A(3) Basic Price of Insulation per sq meter		3.5	627.00	2194.50
	- 32 mm thick nitrile rubber				
	add for wastage@10%				219.45
	Total of A(3)				2413.95
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))				11396.30
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				113.96
	Total of A				11510.26
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	0.75	673.00	504.75
1006	Painter	per day	0.25	328.00	82.00

1007	Helper	per day	3	553.00	1659.00
	Total of B(1)				3591.75
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				4204.75
	Total A+B				15715.01
	Add 12% GST (MF = 0.1405)				2207.96
	TOTAL				17922.97
	C Overhead and Profits @ 15% of (A+B)				2688.45
	Total				20611.42
	Rate for 1 meter				2061.14
	TOTAL				2061.14
	OR SAY Rs.				2061.00

**16.2.9 Chilled water piping of nominal size - 80mm dia. (32mm thick nitrile rubber insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3009	A(1) Basic Price M.S. Pipe - 80 mm dia. per meter		10	502.24	5022.40
	add for wastage@5%				251.12
	Total of (A1)				5273.52
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				791.03
	Total of (A1+A2)				6064.55
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber	per sq meter	2.5136	627.00	1576.03
	add for wastage@10%				157.60
	Total of A(3)				1733.63
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))				7798.18
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				77.98
	Total of A				7876.16
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.75	553.00	1520.75
	Total of B(1)				3356.25
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				3969.25
	Total A+B				11845.41
	Add 12% GST (MF = 0.1405)				1664.28
	TOTAL				13509.69
	C Overhead and Profits @ 15% of (A+B)				2026.45
	Total				15536.14
	Rate for 1 meter				1553.61
	TOTAL				1553.61
	OR SAY Rs.				1554.00

**16.2.10 Chilled water piping of nominal size - 65mm dia. (32mm thick nitrile rubber insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3010	A(1) Basic Price M.S. Pipe - 65 mm dia. per meter		10	397.95	3979.50
	add for wastage@5%				198.98
	Total of (AI)				4178.48

	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				626.77
	Total of (A1+A2)				4805.25
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber	per sq meter	2.0423	627.00	1280.52
	add for wastage@10%				128.05
	Total of A(3)				1408.57
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))				6213.82
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				62.14
	Total of A				6275.96
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	673.00	1009.50
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.25	553.00	1244.25
	Total of B(1)				2743.25
	B(2) For Insulation works				
1004	Fitter	per day	0.4	673.00	269.20
1007	Helper	per day	0.4	553.00	221.20
	Total of B(2)				490.40
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				3233.65
	Total A+B				9509.61
	Add 12% GST (MF = 0.1405)				1336.10
	TOTAL				10845.71
	C Overhead and Profits @ 15% of (A+B)				1626.86
	Total				12472.57
	Rate for 1 meter				1247.26
	TOTAL				1247.26
	OR SAY Rs.				1247.00

**16.2.11 Chilled water piping of nominal size - 50mm dia. (32mm thick fiber glass insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)	UNIT	QTY	RATE	AMOUNT
3011	A(1) Basic Price M.S. Pipe - 50 mm dia. per meter		10	314.87	3148.70
	add for wastage@5%				157.44
	Total of (A1)				3306.14
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				495.92
	Total of (A1+A2)				3802.06
4015	A(3) Basic Price of Insulation - 32 mm thick nitrile rubber per sq meter				2
	627.00		1254.00		
	add for wastage@10%				125.40
	Total of A(3)				1379.40
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))				5181.46
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				51.81
	Total of A				5233.27
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	673.00	1009.50
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.25	553.00	1244.25
	Total of B(1)				2743.25
	B(2) For Insulation works				
1004	Fitter	per day	0.4	673.00	269.20
1007	Helper	per day	0.4	553.00	221.20
	Total of B(2)				490.40
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				3233.65

Total A+B	8466.92
Add 12% GST (MF = 0.1405)	1189.60
TOTAL	9656.52
C Overhead and Profits @ 15% of (A+B)	1448.48
Total	11105.00
Rate for 1 meter	1110.50
TOTAL	1110.50
OR SAY Rs.	1111.00

**16.2.12 Chilled water piping of nominal size - 40mm dia. (32mm thick nitrile rubber insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3012	A(1) Basic Price M.S. Pipe - 40 mm dia. per meter		10	223.92	2239.20
	add for wastage@5%				111.96
	Total of (A1)				2351.16
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				352.67
	Total of (A1+A2)				2703.83
4015	A(3) Basic Price of Insulation per sq meter		1.5	627.00	940.50
	- 32 mm thick nitrile rubber				
	add for wastage@10%				94.05
	Total of A(3)				1034.55
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))				3738.38
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				37.38
	Total of A				3775.77
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	673.00	1009.50
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00

1007	Helper	per day	2.25	553.00	1244.25
	Total of B(1)				2743.25
	B(2) For Insulation works				
1004	Fitter	per day	0.4	673.00	269.20
1007	Helper	per day	0.4	553.00	221.20
	Total of B(2)				490.40
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				3233.65
	Total A+B				7009.42
	Add 12% GST (MF = 0.1405)				984.82
	TOTAL				7994.24
	C Overhead and Profits @ 15% of (A+B)				1199.14
	Total				9193.38
	Rate for 1 meter				919.34
	TOTAL				919.34
	OR SAY Rs.				919.00

**16.2.13 Chilled water piping of nominal size - 32mm dia. (19mm thick nitrile rubber insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3013	A(1) Basic Price M.S. Pipe - 32 mm dia. per meter		10	191.72	1917.20
	add for wastage@5%				95.86
	Total of (A1)				2013.06
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				301.96
	Total of (A1+A2)				2315.02
4016	A(3) Basic Price of Insulation	per sq meter	1.2	347.00	416.40
	- 19 mm thick nitrile rubber				
	add for wastage@10%				41.64
	Total of A(3)				458.04

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))				2773.06
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				27.73
	Total of A				2800.79
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	673.00	1009.50
1087	Welder	per day	0.25	673.00	168.25
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2	553.00	1106.00
	Total of B(1)				2436.75
	B(2) For Insulation works				
1004	Fitter	per day	0.4	673.00	269.20
1007	Helper	per day	0.4	553.00	221.20
	Total of B(2)				490.40
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				2927.15
	Total A+B				5727.94
	Add 12% GST (MF = 0.1405)				804.78
	TOTAL				6532.72
	C Overhead and Profits @ 15% of (A+B)				979.91
	Total				7512.62
	Rate for 1 meter				751.26
	OR SAY Rs.				751.00

**16.2.14 Chilled water piping of nominal size - 25mm dia. (19mm thick nitrile rubber insulation)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3014	A(1) Basic Price M.S. Pipe - 25 mm dia. per meter		10	147.39	1473.90
	add for wastage@5%				73.70
	Total of (A1)				1547.60

	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				232.14
	Total of (A1+A2)				1779.73
4016	A(3) Basic Price of Insulation - 19 mm thick nitrile rubber	per sq meter	0.9	347.00	312.30
	add for wastage@10%				31.23
	Total of A(3)				343.53
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))				2123.26
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				21.23
	Total of A				2144.50
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.25	673.00	841.25
1087	Welder	per day	0.25	673.00	168.25
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	1.75	553.00	967.75
	Total of B(1)				2130.25
	B(2) For Insulation works				
1004	Fitter	per day	0.4	673.00	269.20
1007	Helper	per day	0.4	553.00	221.20
	Total of B(2)				490.40
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (3)				0.00
	Total of B				2620.65
	Total A+B				4765.15
	Add 12% GST (MF = 0.1405)				669.50
	TOTAL				5434.65
	C Overhead and Profits @ 15% of (A+B)				815.20
	Total				6249.85
	Rate for 1 meter				624.98
	OR SAY Rs.				625.00

SULATED CHILLED WATER PIPING (expanded polystyrene insulation)

- 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 polystyrene 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 polystyrene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3001	A(1) Basic Price M.S. Pipe - 400 mm dia.per meter		10	6049.00	60490.00
	add for wastage@5%				3024.50
	Total of (A1)				63514.50
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				9527.18
	Total of (A1+A2)				73041.68
4017	A(3) Basic Price of Insulation - 75 mmper meter		10	981.00	9810.00
	add for wastage@10%				981.00
	TOTAL 3				10791.00
	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))				89535.41
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				895.35
	Total of A				90430.76
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	673.00	2019.00

1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.75	612.00	459.00
1007	Helper	per day	4.75	553.00	2626.75
	Total of B(1)				5777.75
	B(2) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(2)				1532.50
	For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B (3)				1532.50
	Total of B				8842.75
	Total A+B				99273.51
	Add 12% GST (MF = 0.1405)				13947.93
	TOTAL				113221.44
	C Overhead and Profits @ 15% of (A+B)				16983.22
	Total				130204.65
	Rate for 1 meter				13020.47
	TOTAL				13020.47
	OR SAY Rs.				13020.00

16.3.2 Chilled water piping of nominal size - 350mm dia. (75mm thick expanded polysterene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3002	A(1) Basic Price M.S. Pipe - 350 mm dia.per meter	10	3381.30	33813.00	
	add for wastage@5%				1690.65
	Total of (A1)				35503.65
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				5325.55
	Total of (A1+A2)				40829.20
4018	A(3) Basic Price of Insulation - 75 mm per meter	10	838.25	8382.50	
	add for wastage@10%				838.25
	Total A(3)				9220.75
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))				56271.11
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				562.71
	Total of A				56833.82
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	3	673.00	2019.00
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.75	612.00	459.00
1007	Helper	per day	4.75	553.00	2626.75
	Total of B(1)				5777.75
	B(2) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(2)				1532.50
	For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B (3)				1532.50
	Total of B				8842.75
	Total A+B				65676.57
	Add 12% GST (MF = 0.1405)				9227.56
	TOTAL				74904.13
	C Overhead and Profits @ 15% of (A+B)				11235.62
	Total				86139.75
	Rate for 1 meter				8613.97
	TOTAL				8613.97
	OR SAY Rs.				8614.00

16.3.3 Chilled water piping of nominal size - 300mm dia. (75mm thick expanded polystyrene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3003	A(1) Basic Price M.S. Pipe - 300 mm dia.per meter		10	2826.22	28262.20
	add for wastage@5%				1413.11
	Total of (AI)				29675.31

	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%			4451.30
	Total of (A1+A2)			34126.61
4019	A(3) Basic Price of Insulation - 75 mm per meter	10	722.75	7227.50
	add for wastage @ 10%			722.75
	Total 3A			7950.25
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))			47675.90
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))			476.76
	Total of A			48152.66
	B(Labour)			
	B(1) For Piping work			
1004	Fitter	per day	3	673.00
1087	Welder	per day	1	673.00
1006	Painter	per day	0.75	612.00
1007	Helper	per day	4.75	553.00
	Total of B(1)			5777.75
	B(2) For Insulation works			
1004	Fitter	per day	1.25	673.00
1007	Helper	per day	1.25	553.00
	Total of B(2)			1532.50
	For Cladding works			
1004	Fitter	per day	1.25	673.00
1007	Helper	per day	1.25	553.00
	Total of B (3)			1532.50
	Total of B			8842.75
	Total A+B			56995.41
	Add 12% GST (MF = 0.1405)			8007.86
	TOTAL			65003.26
	C Overhead and Profits @ 15% of (A+B)			9750.49
	Total			74753.75
	Rate for 1 meter			7475.38
	TOTAL			7475.38
	OR SAY Rs.			7475.00

16.3.4 Chilled water piping of nominal size - 250mm dia. (75mm thick expanded polysterene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3004	A(1) Basic Price M.S. Pipe - 250 mm dia.per meter		10	2354.78	23547.80
	add for wastage@5%				1177.39
	Total of (A1)				24725.19
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				3708.78
	Total of (A1+A2)				28433.97
4020	A(3) Basic Price of Insulation - 75 mmper meter		10	603.75	6037.50
	add for wastage@10%				603.75
	Total 3A				6641.25
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))				40052.15
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				400.52
	Total of A				40452.67
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	673.00	1682.50
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.5	328.00	164.00
1007	Helper	per day	4	553.00	2212.00
	Total of B(1)				4731.50
	B(2) For Insulation works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B(2)				1226.00
	For Cladding works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B (3)				1226.00
	Total of B				7183.50
	Total A+B				47636.17

Add 12% GST (MF = 0.1405)	6692.88
TOTAL	54329.05
C Overhead and Profits @ 15% of (A+B)	8149.36
Total	62478.41
Rate for 1 meter	6247.84
TOTAL	6247.84
OR SAY Rs.	6248.00

16.3.5 Chilled water piping of nominal size - 200mm dia. (75mm thick expanded polysterene)

(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3005	A(1) Basic Price M.S. Pipe - 200 mm dia.per meter		10	1883.82	18838.20
	add for wastage@5%				941.91
	Total of (A1)				19780.11
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				2967.02
	Total of (A1+A2)				22747.13
4021	A(3) Basic Price of Insulation - 75 mm	per meter	10	514.50	5145.00
	add for wastage@10%				514.50
	Total of A(3)				5659.50
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))				32761.44
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				327.61
	Total of A				33089.05
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2.5	673.00	1682.50
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.5	612.00	306.00

1007	Helper	per day	4	553.00	2212.00
	Total of B(1)				4873.50
	B(2) For Insulation works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B(2)				1226.00
	For Cladding works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B (3)				1226.00
	Total of B				7325.50
	Total A+B				40414.55
	Add 12% GST (MF = 0.1405)				5678.24
	TOTAL				46092.80
	C Overhead and Profits @ 15% of (A+B)				6913.92
	Total				53006.72
	Rate for 1 meter				5300.67
	TOTAL				5300.67
	OR SAY Rs.				5301.00

16.3.6 Chilled water piping of nominal size - 150mm dia. (50mm thick expanded polysterene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3006	A(1) Basic Price M.S. Pipe - 150 mm dia.per meter		10	1076.37	10763.70
	add for wastage@5%				538.19
	Total of (A1)				11301.89
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1695.28
	Total of (A1+A2)				12997.17
4022	A(3) Basic Price of Insulation - 50 mm	per meter	10	244.13	2441.25
	add for wastage@10%				244.13
	Total A(3)				2685.38

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))				19415.24
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				194.15
	Total of A				19609.39
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	1	673.00	673.00
1006	Painter	per day	0.5	612.00	306.00
1007	Helper	per day	3.5	553.00	1935.50
	Total of B(1)				4260.50
	B(2) For Insulation works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B(2)				1226.00
	For Cladding works				
1004	Fitter	per day	1	673.00	673.00
1007	Helper	per day	1	553.00	553.00
	Total of B (3)				1226.00
	Total of B				6712.50
	Total A+B				26321.89
	Add 12% GST (MF = 0.1405)				3698.23
	TOTAL				30020.12
	C Overhead and Profits @ 15% of (A+B)				4503.02
	Total				34523.13
	Rate for 1 meter				3452.31
	TOTAL				3452.31
	OR SAY Rs.				3452.00

16.3.7 Chilled water piping of nominal size - 125mm dia. (50mm thick expanded polysterene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3007	A(1) Basic Price M.S. Pipe - 125 mm dia.per meter		10	912.33	9123.30
	add for wastage@5%				456.17
	Total of (A)				9579.47

	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1436.92
	Total of (A1+A2)				11016.38
4023	A(3) Basic Price of Insulation - 50 mm per meter	10	215.25	2152.50	
	add for wastage @ 10%			215.25	
	Total A(3)				2367.75
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))				16183.66
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				161.84
	Total of A				16345.49
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	0.75	673.00	504.75
1006	Painter	per day	0.5	612.00	306.00
1007	Helper	per day	3.25	553.00	1797.25
	Total of B(1)				3954.00
	B(2) For Insulation works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B(2)				919.50
	For Cladding works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B (3)				919.50
	Total of B				5793.00
	Total A+B				22138.49
	Add 12% GST (MF = 0.1405)				3110.46
	TOTAL				25248.95
	C Overhead and Profits @ 15% of (A+B)				3787.34
	Total				29036.29
	Rate for 1 meter				2903.63
	TOTAL				2903.63
	OR SAY Rs.				2904.00

16.3.8 Chilled water piping of nominal size - 100mm dia. (50mm thick expanded polysterene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)	UNIT	QTY	RATE	AMOUNT
3008	A(1) Basic Price M.S. Pipe - 100 mm dia.per meter		10	743.88	7438.80
	add for wastage@5%				371.94
	Total of (A1)				7810.74
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1171.61
	Total of (A1+A2)				8982.35
4024	A(3) Basic Price of Insulation - 50 mm per meter		10	189.00	1890.00
	add for wastage@10%				189.00
	Total A (3)				2079.00
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))				13549.82
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				135.50
	Total of A				13685.31
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	0.75	673.00	504.75
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	3	553.00	1659.00
	Total of B(1)				3662.75
	B(2) For Insulation works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B(2)				919.50
	For Cladding works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B (3)				919.50

Total of B	5501.75
Total A+B	19187.06
Add 12% GST (MF = 0.1405)	2695.78
TOTAL	21882.85
C Overhead and Profits @ 15% of (A+B)	3282.43
Total	25165.27
Rate for 1 meter	2516.53
TOTAL	2516.53
OR SAY Rs.	2517.00

**16.3.9 Chilled water piping of nominal size - 80mm dia. (50mm thick expanded polysterene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3009	A(1) Basic Price M.S. Pipe - 80 mm dia.	per meter	10	502.24	5022.40
	add for wastage@5%				251.12
	Total of (A1)				5273.52
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				791.03
	Total of (A1+A2)				6064.55
4025	A(3) Basic Price of Insulation - 50 mm	per meter	10	156.63	1566.25
	add for wastage@10%				156.63
	Total A (3)				1722.88
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))				10027.04
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				100.27
	Total of A				10127.31
	B(Labour)				
	B(1) For Piping work				

1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.75	553.00	1520.75
	Total of B(1)				3356.25
	B(2) For Insulation works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B(2)				919.50
	For Cladding works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B (3)				919.50
	Total of B				5195.25
	Total A+B				15322.56
	Add 12% GST (MF = 0.1405)				2152.82
	TOTAL				17475.38
	C Overhead and Profits @ 15% of (A+B)				2621.31
	Total				20096.69
	Rate for 1 meter				2009.67
	TOTAL				2009.67
	OR SAY Rs.				2010.00

**16.3.10 Chilled water piping of nominal size - 65mm dia. (50mm thick expanded polysterene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3010	A(1) Basic Price M.S. Pipe - 65 mm dia. per meter		10	397.95	3979.50
	add for wastage@5%				198.98
	Total of (A1)				4178.48
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				626.77
	Total of (A1+A2)				4805.25

4026	A(3) Basic Price of Insulation -	per meter	10	142.63	1426.25
	50 mm				
	add for wastage@10%				142.63
					1568.88
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))				8427.10
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				84.27
	Total of A				8511.38
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	2	673.00	1346.00
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.75	553.00	1520.75
	Total of B(1)				3356.25
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B (3)				613.00
	Total of B				4582.25
	Total A+B				13093.63
	Add 12% GST (MF = 0.1405)				1839.65
	TOTAL				14933.28
	C Overhead and Profits @ 15% of (A+B)				2239.99
	Total				17173.27
	Rate for 1 meter				1717.33
	TOTAL				1717.33
	OR SAY Rs.				1717.00

16.3.11 Chilled water piping of nominal size - 50mm dia. (50mm thick expanded polysterene) (ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3011	A(1) Basic Price M.S. Pipe - 50 mm dia. per meter		10	314.87	3148.70
	add for wastage@5%				157.44
	Total of (A1)				3306.14
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				495.92
	Total of (A1+A2)				3802.06
4027	A(3) Basic Price of Insulation - 50 mm per meter		10	126.00	1260.00
	add for wastage@10%				126.00
	Total A(3)				1386.00
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))				7054.40
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				70.54
	Total of A				7124.95
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	673.00	1009.50
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.25	553.00	1244.25
	Total of B(1)				2743.25
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B (3)				613.00
	Total of B				3969.25
	Total A+B				11094.20

Add 12% GST (MF = 0.1405)	1558.73
TOTAL	12652.93
C Overhead and Profits @ 15% of (A+B)	1897.94
Total	14550.87
Rate for 1 meter	1455.09
TOTAL	1455.09
OR SAY Rs.	1455.00

**16.3.12 Chilled water piping of nominal size - 40mm dia. (50mm thick expanded polysterene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3012	A(1) Basic Price M.S. Pipe - 40 mm dia. per meter		10	223.92	2239.20
	add for wastage@5%				111.96
	Total of (A1)				2351.16
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				352.67
	Total of (A1+A2)				2703.83
4028	A(3) Basic Price of Insulation - 50 mm per meter		10	112.00	1120.00
	add for wastage@10%				112.00
	Total A(3)				1232.00
3023	A(4) Pipe aluminium Cladding per sq meter	4.3988		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))				5677.76
	Add for cartage etc. @ 1% of (A(1)+A(2)+A(3)+A(4))				56.78
	Total of A				5734.54
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.5	673.00	1009.50
1087	Welder	per day	0.5	673.00	336.50
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	2.25	553.00	1244.25
	Total of B(1)				2743.25
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50

1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B (3)				613.00
	Total of B				3969.25
	Total A+B				9703.79
	Add 12% GST (MF = 0.1405)				1363.38
	TOTAL				11067.17
	C Overhead and Profits @ 15% of (A+B)				1660.08
	Total				12727.24
	Rate for 1 meter				1272.72
	TOTAL				1272.72
	OR SAY Rs.				1273.00

**16.3.13 Chilled water piping of nominal size - 32mm dia. (50mm thick expanded polysterene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3013	A(1) Basic Price M.S. Pipe - 32 mm dia. per meter		10	191.72	1917.20
	add for wastage@5%				95.86
	Total of (A1)				2013.06
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				301.96
	Total of (A1+A2)				2315.02
4029	A(3) Basic Price of Insulation - 50 mm per meter		10	105.00	1050.00
	add for wastage@10%				105.00
	Total A (3)				1155.00
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))				5112.41
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				51.12
	Total of A				5163.53

B(Labour)					
B(1) For Piping work					
1004	Fitter	per day	1.25	673.00	841.25
1087	Welder	per day	0.25	673.00	168.25
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	1.75	553.00	967.75
Total of B(1)					2130.25
B(2) For Insulation works					
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
Total of B(2)					613.00
For Cladding works					
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
Total of B (3)					613.00
Total of B					3356.25
Total A+B					8519.78
Add 12% GST (MF = 0.1405)					1197.03
TOTAL					9716.81
C Overhead and Profits @ 15% of (A+B)					1457.52
Total					11174.33
Rate for 1 meter					1117.43
TOTAL					1117.43
OR SAY Rs.					1117.0

**16.3.14 Chilled water piping of nominal size - 25mm dia. (50mm thick expanded polysterene)
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3014	A(1) Basic Price M.S. Pipe - 25 mm dia. per meter		10	147.39	1473.90
	add for wastage@5%				73.70
Total of (A1)					1547.60
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				232.14

	Total of (A1+A2)				1779.73
4030	A(3) Basic Price of Insulation - 50 mmper meter	10	96.25	962.50	
	add for wastage@10%			96.25	
	Total of A(3)				1058.75
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))				4393.77
	Add for cartage etc. @ 1%of (A(1)+A(2)+A(3)+A(4))				43.94
	Total of A				4437.71
	B(Labour)				
	B(1) For Piping work				
1004	Fitter	per day	1.25	673.00	841.25
1087	Welder	per day	0.25	673.00	168.25
1006	Painter	per day	0.25	612.00	153.00
1007	Helper	per day	1.75	553.00	967.75
	Total of B(1)				2130.25
	B(2) For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B(2)				613.00
	For Cladding works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B (3)				613.00
	Total of B				3356.25
	Total A+B				7793.96
	Add 12% GST (MF = 0.1405)				1095.05
	TOTAL				8889.01
	C Overhead and Profits @ 15% of (A+B)				1333.35
	Total				10222.37
	Rate for 1 meter				1022.24
	TOTAL				1022.24
	OR SAY Rs.				1022.00

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
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
4031	A(1) Basic Price of Insulation - 75 mmper sqmeter		10	1279.00	12790.00
	add for wastage@10%				1279.00
	Total of A1				14069.00
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))				18029.00
	Add for cartage etc. @ 1%of (A(1)+A(2))				180.29
	Total of A				18209.29
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(1)				1532.50
	For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B (2)				1532.50
	Total of B				3065.00
	Total A+B				21274.29
	Add 12% GST (MF = 0.1405)				2989.04
	TOTAL				24263.33
	C Overhead and Profits @ 15% of (A+B)				3639.50
	Total				27902.83
	Rate for 1 sqmeter				2790.28
	TOTAL				2790.28
	OR SAY Rs.				2790.00

**16.4.2 Insulation of thickness 65 mm on existing pipe
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3201	A(1) Basic Price of Insulation - 65 mm per sqmeter		10	928.00	9280.00
	add for wastage@10%				928.00
	Total of A1				10208.00
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))				14168.00
	Add for cartage etc. @ 1%of (A(1)+A(2))				141.68
	Total of A				14309.68
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(1)				1532.50
	For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	368.00	460.00
	Total of B (2)				1301.25
	Total of B				2833.75
	Total A+B				17143.43
	Add 12% GST (MF = 0.1405)				2408.65
	TOTAL				19552.08
	C Overhead and Profits @ 15% of (A+B)				2932.81
	Total				22484.89
	Rate for 1 sqmeter				2248.49
	TOTAL				2248.49
	OR SAY Rs.				2248.00

**16.4.3 Insulation of thickness 50mm on existing pipe
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
4032	A(1) Basic Price of Insulation - 50 mm per sqm		10	1049.00	10490.00
	add for wastage@10%				1049.00
	Total of A(1)				11539.00

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))				15499.00
	Add for cartage etc. @ 1%of (A(1)+A(2))				154.99
	Total of A				15653.99
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(1)				1532.50
	For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B (2)				1532.50
	Total of B				3065.00
	Total A+B				18718.99
	Add 12% GST (MF = 0.1405)				2630.02
	TOTAL				21349.01
	C Overhead and Profits @ 15% of (A+B)				3202.35
	Total				24551.36
	Rate for 1 sqmeter				2455.14
	TOTAL				2455.14
	OR SAY Rs.				2455.00

16.4.4 **Insulation of thickness 40mm on existing pipe**
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
4033	A(1) Basic Price of Insulation - 40 mm	per sqmeter	10	909.92	9099.18
	Add wastage @ 10%				909.92
	Total of A(1)				10009.10
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))				13969.10

	Add for cartage etc. @ 1%of (A(1)+A(2))				139.69
	Total of A				14108.79
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(1)				1532.50
	For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B (2)				1532.50
	Total of B				3065.00
	Total A+B				17173.79
	Add 12% GST (MF = 0.1405)				2412.92
	TOTAL				19586.71
	C Overhead and Profits @ 15% of (A+B)				2938.01
	Total				22524.71
	Rate for 1 sqmeter				2252.47
	TOTAL				2252.47
	OR SAY Rs.				2252.00

16.4.5 Insulation of thickness 25mm on existing pipe
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
4034	A(1) Basic Price of Insulation - 25 mmper sqmeter	10		600.55	6005.46
	Add wastage @ 10%				600.55
	Total of A(1)				6606.01
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))				10566.01

	Add for cartage etc. @ 1%of (A(1)+A(2))				105.66
	Total of A				10671.67
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(1)				1532.50
	For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B (2)				1532.50
	Total of B				3065.00
	Total A+B				13736.67
	Add 12% GST (MF = 0.1405)				1930.00
	TOTAL				15666.67
	C Overhead and Profits @ 15% of (A+B)				2350.00
	Total				18016.67
	Rate for 1 sqmeter				1801.67
	TOTAL				1801.67
	OR SAY Rs.				1802.00

16.5 Supplying, laying,fixing, testing and commissioning of following thickness closed cell elastometric 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
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
4015	A(1) Basic Price of Insulation - 32 mm thick nitrile rubber	per sq meter	10	627.00	6270.00
	Add wastagee @ 10%				627.00
	Total of A(1)				6897.00
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))				6897.00
	Add for cartage etc. @ 1%of (A(1)+A(2))				68.97
	Total of A				6965.97
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	0.75	673.00	504.75
1007	Helper	per day	0.75	553.00	414.75
	Total of B(1)				919.50
	For Cladding works				
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
	Total of B (2)				0.00
	Total of B				919.50
	Total A+B				7885.47
	Add 12% GST (MF = 0.1405)				1107.91
	TOTAL				8993.38
	C Overhead and Profits @ 15% of (A+B)				1349.01
	Total				10342.39
	Rate for 1 sq meter				1034.24
	TOTAL				1034.24
	OR SAY Rs.				1034.00

**16.5.2 Insulation with nitrile rubber of thickness 19mm on existing pipe
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
4016	A(3) Basic Price of Insulation	per sq meter	10	347.00	3470.00
	- 19 mm thick nitrile rubber				
	Add wastagee @ 10%				347.00
	Total of A(1)				3817.00
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))					3817.00
Add for cartage etc. @ 1%of (A(1)+A(2))					38.17
Total of A					3855.17
B(Labour)					
B(1) For Insulation works					
1004	Fitter	per day	0.65	673.00	437.45
1007	Helper	per day	0.65	553.00	359.45
Total of B(1)					796.90
For Cladding works					
1004	Fitter	per day	0	673.00	0.00
1007	Helper	per day	0	553.00	0.00
Total of B (2)					0.00
Total of B					796.90
Total A+B					4652.07
Add 12% GST (MF = 0.1405)					653.62
TOTAL					5305.69
C Overhead and Profits @ 15% of (A+B)					795.85
Total					6101.54
Rate for 1 meter					610.15
TOTAL					610.15
OR SAY Rs.					610.00

16.6 Supplying, laying/ fixing, testing and commissioning of following thickness insulation with fire retardant quality expanded polystyrene 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

16.6.1 Insulation with Expanded polystyrene of thickness 75mm on existing pipe (ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)	UNIT	QTY	RATE	AMOUNT
4037	A(1) Basic Price of Insulation - 75 mmper sq meter		10	210.00	2100.00
	Add wastagee @ 10%				210.00
	Total of A(1)				2310.00

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))				6270.00
	Add for cartage etc. @ 1%of (A(1)+A(2))				62.70
	Total of A				6332.70
	B(Labour)				
	B(1) For Insulation works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B(1)				1532.50
	For Cladding works				
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
	Total of B (2)				1532.50
	Total of B				3065.00
	Total A+B				9397.70
	Add 12% GST (MF = 0.1405)				1320.38
	TOTAL				10718.08
	C Overhead and Profits @ 15% of (A+B)				1607.71
	Total				12325.79
	Rate for 1 sq meter				1232.58
	TOTAL				1232.58
	OR SAY Rs.				1233.00

**16.6.2 Insulation with Expanded polystyrene of thickness 50mm on existing pipe
(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
4038	A(1) Basic Price of Insulation - 50 mm per meter		10	140.00	1400.00
	Add wastagee @ 10%				140.00
	Total of A(2)				1400.00
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))					5360.00
Add for cartage etc. @ 1%of (A(1)+A(2))					53.60
Total of A					5413.60
B(Labour)					
B(1) For Insulation works					
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
Total of B(1)					1532.50
For Cladding works					
1004	Fitter	per day	1.25	673.00	841.25
1007	Helper	per day	1.25	553.00	691.25
Total of B (2)					1532.50
Total of B					3065.00
Total A+B					8478.60
Add 12% GST (MF = 0.1405)					1191.24
TOTAL					9669.84
C Overhead and Profits @ 15% of (A+B)					1450.48
Total					11120.32
Rate for 1 meter					1112.03
TOTAL					1112.03
OR SAY Rs.					1112.00

INSULATED VALVES

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3024	Basic Price (Valve) - 200 mm dia.	Each	1	7946.00	7946.00
Total (A)					7946.00
B Insulation					

4021	Basic Price of Insulation	m	0.3	514.50	154.35
	Add wastage @ 10%				15.44
	Add Valve Cladding	sqm	0.3	360	108.0
3023	Add wastage @ 10%				10.80
	Total (B)				288.59
	Total (A+B)				8234.59
	Add for Cartage etc. @ 1% on A+B				82.35
	TOTAL				8316.93
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	673.00	336.50
1087	Welder	per day	0.2	673.00	134.60
1007	Helper	per day	0.7	553.00	387.10
	For Insulation				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	For Cladding				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	Total of C				1471.20
	Total of A+B+C				9788.13
	Add 12% GST (MF = 0.1405)				1375.23
	TOTAL				11163.36
	Overhead and Profits @ 15%				1674.50
	Grand Total				12837.87
	Say Rs.				12838.00

16.7.1.2 BUTTERFLY VALVE (MANUAL)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3025	Basic Price (Valve) - 150 mm dia.	Each	1	3272.00	3272.00
	Total (A)				3272.00
	B Insulation				
4022	Basic Price of Insulation	m	0.3	244.13	73.24
	Add wastage @ 10%				7.32
	Add Valve Cladding	sqm	0.24	300	72.00
3023	Add wastage @ 10%				7.20

	Total (B)				159.76
	Total (A+B)				3431.76
	Add for Cartage etc. @ 1% on A+B				34.32
	Total				3466.08
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	673.00	336.50
1087	Welder	per day	0.25	673.00	168.25
1007	Helper	per day	0.75	553.00	414.75
	For Insulation				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	For Cladding				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	Total of C				1532.50
	Total of A+B+C				4998.58
	Add 12% GST (MF = 0.1405)				702.30
	TOTAL				5700.88
	Overhead and Profits @ 15%				855.13
	Grand Total				6556.01
	Say Rs.				6556.00

16.7.1.3 BUTTERFLY VALVE (MANUAL) 125 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3026	Basic Price (Valve) - 125 mm dia.	Each	1	2780.00	2780.00
	Add for Cartage etc. @ 1%				39.07
	Total (A)				2819.07
	B Insulation				
4027	Basic Price of Insulation	m	0.3	126.00	37.80
3023	Add Valve Cladding	sqm	0.19	360.00	68.40
	Total				106.20

	Add wastage @ 10%				10.62
	Total				116.82
	Add for Cartage etc. @ 1%				1.17
	Total (B)				116.82
	Total (A+B)				2935.89
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	673.00	336.50
1087	Welder	per day	0.25	673.00	168.25
1007	Helper	per day	0.75	553.00	414.75
	For Insulation				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	For Cladding				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	Total of C				1532.50
	Total of A+B+C				4468.39
	Add 12% GST (MF = 0.1405)				627.81
	TOTAL				5096.20
	Overhead and Profits @ 15%				764.43
	Grand Total				5860.63
	Say Rs.				5861.00

16.7.1.4 BUTTERFLY VALVE (MANUAL) 100 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3027	Basic Price (Valve) - 100 mm dia.	Each	1	2255.00	2255.00
	Add for Cartage etc. @ 1%				22.55
	Total (A)				2277.55
	B Insulation				
4024	Basic Price of Insulation	m	0.3	189.00	56.70
3023	Add Valve Cladding	sqm	0.17	360.00	61.20
	Total				117.90

	Add wastage @ 10%				11.79
	Total				129.69
	Add for Cartage etc. @ 1%				1.30
	Total (B)				130.99
	Total (A+B)				2408.54
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	673.00	336.50
1087	Welder	per day	0.25	673.00	168.25
1007	Helper	per day	0.75	553.00	414.75
	For Insulation				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	For Cladding				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	Total of C				1532.50
	Total of A+B+C				3941.04
	Add 12% GST (MF = 0.1405)				553.72
	TOTAL				4494.75
	Overhead and Profits @ 15%				674.21
	Grand Total				5168.97
	Say Rs.				5169.00

16.7.1.5 BUTTERFLY VALVE (MANUAL) 80 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3028	Basic Price (Valve) - 80 mm dia.	Each	1	1714.00	1714.00
	Add for Cartage etc. @ 1%				17.14
	Total (A)				1731.14
	B Insulation				
4025	Basic Price of Insulation	m	0.2	156.63	31.33
	Add Valve Cladding	sqm	0.12	360.00	43.20
	Total				74.53

	Add wastage @ 10%				7.45
	Total				81.98
	Add for Cartage etc. @ 1%				0.82
	Total (B)				82.80
	Total (A+B)				1813.94
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.25	673.00	169.60
1087	Welder	per day	0.21	673.00	144.02
1007	Helper	per day	0.47	553.00	257.70
	For Insulation				
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95
	For Cladding				
1004	Fitter	per day	0.2	673.00	134.60
1007	Helper	per day	0.2	553.00	110.60
	Total of C				1000.42
	Total of A+B+C				2814.35
	Add 12% GST (MF = 0.1405)				395.42
	TOTAL				3209.77
	Overhead and Profits @ 15%				481.47
	Grand Total				3691.24
	Say Rs.				3691.00

16.7.1.6 BUTTERFLY VALVE (MANUAL) 65 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3029	Basic Price (Valve) - 65 mm dia.	Each	1	1550.00	1550.00
	Add for Cartage etc. @ 1%				15.50
	Total (A)				1565.50
	B Insulation				
4026	Basic Price of Insulation	m	0.2	142.63	28.53
3023	Add Valve Cladding	sqm	0.07	360.00	25.20
	Total				53.73

	Add wastage @ 10%				5.37
	Total				59.10
	Add for Cartage etc. @ 1%				0.59
	Total (B)				59.69
	Total (A+B)				1625.19
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.25	673.00	168.25
1087	Welder	per day	0.21	673.00	142.00
1007	Helper	per day	0.46	553.00	254.93
	For Insulation				
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95
	For Cladding				
1004	Fitter	per day	0.2	673.00	134.60
1007	Helper	per day	0.2	553.00	110.60
	Total of C				994.29
	Total of A+B+C				2619.47
	Add 12% GST (MF = 0.1405)				368.04
	TOTAL				2987.51
	Overhead and Profits @ 15%				448.13
	Grand Total				3435.64
	Say Rs.				3436.00

16.7.1.7 BUTTERFLY VALVE (MANUAL) 50 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3030	Basic Price (Valve) - 50 mm dia.	Each	1	1468.00	1468.00
	Add for Cartage etc. @ 1%				14.68
	Total (A)				1482.68
	B Insulation				
4027	Basic Price of Insulation	m	0.2	126.00	25.20
3023	Add Valve Cladding	sqm	0.06	360.00	21.60
	Total				46.80

	Add wastage @ 10%				4.68
	Total				51.48
	Add for Cartage etc. @ 1%				0.51
	Total (B)				51.99
	Total (A+B)				1534.67
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.20	673.00	134.60
1087	Welder	per day	0.17	673.00	113.06
1007	Helper	per day	0.37	553.00	203.50
	For Insulation				
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95
	For Cladding				
1004	Fitter	per day	0.2	673.00	134.60
1007	Helper	per day	0.2	553.00	110.60
	Total of C				880.27
	Total of A+B+C				2414.94
	Add 12% GST (MF = 0.1405)				339.30
	TOTAL				2754.24
	Overhead and Profits @ 15%				413.14
	Grand Total				3167.38
	Say Rs.				3167.00

16.7.1.8 BUTTERFLY VALVE (MANUAL) 40 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3031	Basic Price (Valve) - 40 mm dia.	Each	1	1468.00	1468.00
	Add for Cartage etc. @ 1%				14.68
	Total (A)				1482.68
	B Insulation				
4028	Basic Price of Insulation	m	0.2	112.00	22.40
3023	Add Valve Cladding	sqm	0.06	360.00	21.60
	Total				44.00

	Add wastage @ 10%				4.40
	Total				48.40
	Add for Cartage etc. @ 1%				0.48
	Total (B)				48.88
	Total (A+B)				1531.56
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.15	673.00	100.95
1087	Welder	per day	0.15	673.00	100.95
1007	Helper	per day	0.3	553.00	165.90
	For Insulation				
1004	Fitter	per day	0.12	673.00	80.76
1007	Helper	per day	0.12	553.00	66.36
	For Cladding				
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95
	Total of C				698.82
	Total of A+B+C				2230.38
	Add 12% GST (MF = 0.1405)				313.37
	TOTAL				2543.75
	Overhead and Profits @ 15%				381.56
	Grand Total				2925.32
	Say Rs.				2925.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3032	Basic Price (Valve) - 200 mm dia.	Each	1	38142.00	38142.00
	Add for Cartage etc. @ 1%				381.42
	Total (A)				38523.42
	B Insulation				
4021	Basic Price of Insulation	m	0.3	514.50	154.35

3023	Add Valve Cladding	sqm	0.28	360.00	100.80
	Total				255.15
	Add wastage @ 10%				25.52
	Total				280.67
	Add for Cartage etc. @ 1%				2.81
	Total (B)				283.47
	Total (A+B)				38806.89
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.48	673.00	323.04
1087	Welder	per day	0.20	673.00	134.60
1007	Helper	per day	0.68	553.00	376.04
	For Insulation				
1004	Fitter	per day	0.2	673.00	134.60
1007	Helper	per day	0.2	553.00	110.60
	For Cladding				
1004	Fitter	per day	0.2	673.00	134.60
1007	Helper	per day	0.2	553.00	110.60
	Total of C				1324.08
	Total of A+B+C				40130.97
	Add 12% GST (MF = 0.1405)				5638.40
	TOTAL				45769.37
	Overhead and Profits @ 15%				6865.41
	Grand Total				52634.78
	Say Rs.				52635.00

16.7.2.2 BALANCING VALVE WITH BUILT IN MEASURING FACILITY of 150 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3033	Basic Price (Valve) - 150 mm dia.	Each	1	18642.00	18642.00
	Add for Cartage etc. @ 1%				186.42
	Total (A)				18828.42
	B Insulation				
4022	Basic Price of Insulation	m	0.30	244.13	73.24
3023	Add Valve Cladding	sqm	0.24	360.00	86.40
	Total				159.64

	Add wastage @ 10%				15.96
	Total				175.60
	Add for Cartage etc. @ 1%				1.76
	Total (B)				177.36
	Total (A+B)				19005.78
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.48	673.00	323.04
1087	Welder	per day	0.20	673.00	131.30
1007	Helper	per day	0.68	553.00	373.33
	For Insulation				
1004	Fitter	per day	0.19	673.00	127.87
1007	Helper	per day	0.19	553.00	105.07
	For Cladding				
1004	Fitter	per day	0.18	673.00	117.84
1007	Helper	per day	0.18	553.00	96.83
	Total of C				1275.29
	Total of A+B+C				20281.06
	Add 12% GST (MF = 0.1405)				2849.49
	TOTAL				23130.55
	Overhead and Profits @ 15%				3469.58
	Grand Total				26600.13
	Say Rs.				26600.00

16.7.2.3 BALANCING VALVE WITH BUILT IN MEASURING FACILITY of 125 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3034	Basic Price (Valve) - 125 mm dia.	Each	1	13650.00	13650.00
	Add for Cartage etc. @ 1%				136.50
	Total (A)				13786.50
	B Insulation				
4023	Basic Price of Insulation	m	0.3	215.25	64.58
3023	Add Valve Cladding	sqm	0.19	360.00	68.40
	Total				132.98

	Add wastage @ 10%				13.30
	Total				146.27
	Add for Cartage etc. @ 1%				1.46
	Total (B)				147.74
	Total (A+B)				13934.24
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.48	673.00	326.34
1087	Welder	per day	0.20	673.00	137.96
1007	Helper	per day	0.69	553.00	381.51
	For Insulation				
1004	Fitter	per day	0.19	673.00	131.17
1007	Helper	per day	0.19	553.00	107.78
	For Cladding				
1004	Fitter	per day	0.18	673.00	124.44
1007	Helper	per day	0.18	553.00	102.25
	Total of C				1311.44
	Total of A+B+C				15245.68
	Add 12% GST (MF = 0.1405)				2142.02
	TOTAL				17387.69
	Overhead and Profits @ 15%				2608.15
	Grand Total				19995.85
	Say Rs.				19996.00

16.7.2.4 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 100 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3035	Basic Price (Valve) - 100 mm dia.	Each	1	10062.00	10062.00
	Add for Cartage etc. @ 1%				100.62
	Total (A)				10162.62
	B Insulation				
4024	Basic Price of Insulation	m	0.3	189.00	65.96
	Add Valve Cladding	sqm	0.17	360.00	61.20
	Total				127.16

3023	Add wastage @ 10%				12.72
	Total				139.88
	Add for Cartage etc. @ 1%				1.40
	Total (B)				141.28
	Total (A+B)				10303.90
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.48	673.00	323.04
1087	Welder	per day	0.20	673.00	136.62
1007	Helper	per day	0.68	553.00	377.70
	For Insulation				
1004	Fitter	per day	0.19	673.00	131.17
1007	Helper	per day	0.19	553.00	107.78
	For Cladding				
1004	Fitter	per day	0.18	673.00	124.44
1007	Helper	per day	0.18	553.00	102.25
	Total of C				1302.99
	Total of A+B+C				11606.89
	Add 12% GST (MF = 0.1405)				1630.77
	TOTAL				13237.66
	Overhead and Profits @ 15%				1985.65
	Grand Total				15223.31
	Say Rs.				15223.00

16.7.2.5 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 80 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3036	Basic Price (Valve) - 80 mm dia.	Each	1	6811.00	6811.00
	Add for Cartage etc. @ 1%				68.11
	Total (A)				6879.11
	B Insulation				
4025	Basic Price of Insulation	m	0.2	156.63	31.33
3023	Add Valve Cladding	sqm	0.12	360.00	43.20
	Total				74.53

	Add wastage @ 10%				7.45
	Total				81.98
	Add for Cartage etc. @ 1%				0.82
	Total (B)				82.80
	Total (A+B)				6961.91
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.26	673.00	177.67
1087	Welder	per day	0.20	673.00	134.60
1007	Helper	per day	0.46	553.00	256.59
	For Insulation				
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95
	For Cladding				
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95
	Total of C				936.66
	Total of A+B+C				7898.57
	Add 12% GST (MF = 0.1405)				1109.75
	TOTAL				9008.32
	Overhead and Profits @ 15%				1351.25
	Grand Total				10359.57
	Say Rs.				10360.00

16.7.2.6 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 65 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3037	Basic Price (Valve) - 65 mm dia.	Each	1	5842.00	5842.00
	Add for Cartage etc. @ 1%				58.42
	Total (A)				5900.42
	B Insulation				
4026	Basic Price of Insulation	m	0.2	142.63	28.53
3023	Add Valve Cladding	sqm	0.07	360.00	25.20
	Total				53.73

	Add wastage @ 10%				5.37
	Total				59.10
	Add for Cartage etc. @ 1%				0.59
	Total (B)				59.69
	Total (A+B)				5960.11
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.26	673.00	178.28
1087	Welder	per day	0.20	673.00	137.90
1007	Helper	per day	0.47	553.00	259.80
	For Insulation				
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95
	For Cladding				
1004	Fitter	per day	0.15	673.00	102.30
1007	Helper	per day	0.15	553.00	84.06
	Total of C				946.23
	Total of A+B+C				6906.34
	Add 12% GST (MF = 0.1405)				970.34
	TOTAL				7876.68
	Overhead and Profits @ 15%				1181.50
	Grand Total				9058.18
	Say Rs.				9058.00

16.7.2.7 BALANCING VALVE WITH BUILT IN MEASURING FACILITY 50 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3038	Basic Price (Valve) - 50 mm dia.	Each	1	4672.00	4672.00
	Add for Cartage etc. @ 1%				46.72
	Total (A)				4718.72
	B Insulation				
4027	Basic Price of Insulation	m	0.2	126.00	25.20
	Add Valve Cladding	sqm	0.07	360.00	25.20
	Total				50.40

	Add wastage @ 10%				5.04
	Total				55.44
	Add for Cartage etc. @ 1%				0.55
	Total (B)				55.99
	Total (A+B)				4774.71
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.20	673.00	134.60
1087	Welder	per day	0.20	673.00	134.60
1007	Helper	per day	0.40	553.00	221.20
	For Insulation				
1004	Fitter	per day	0.15	673.00	100.28
1007	Helper	per day	0.15	553.00	82.40
	For Cladding				
1004	Fitter	per day	0.15	673.00	97.65
1007	Helper	per day	0.15	553.00	80.24
	Total of C				850.97
	Total of A+B+C				5625.68
	Add 12% GST (MF = 0.1405)				790.41
	TOTAL				6416.09
	Overhead and Profits @ 15%				962.41
	Grand Total				7378.50
	Say Rs.				7379.00

16.7.2.8 BALANCING VALVE WITH BUILT IN MEASURING FACILITY of 40 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3039	Basic Price (Valve) - 40 mm dia.	Each	1	2683.00	2683.00
	Add for Cartage etc. @ 1%				26.83
	Total (A)				2709.83
	B Insulation				
4028	Basic Price of Insulation	m	0.2	112.00	22.40
3023	Add Valve Cladding	sqm	0.06	360.00	21.60
	Total				44.00

	Add wastage @ 10%				4.40
	Total				48.40
	Add for Cartage etc. @ 1%				0.48
	Total (B)				48.88
	Total (A+B)				2758.71
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.14	673.00	95.57
1087	Welder	per day	0.14	673.00	94.22
1007	Helper	per day	0.28	553.00	155.95
	For Insulation				
1004	Fitter	per day	0.14	673.00	94.22
1007	Helper	per day	0.14	553.00	77.42
	For Cladding				
1004	Fitter	per day	0.14	673.00	94.22
1007	Helper	per day	0.14	553.00	77.42
	Total of C				689.01
	Total of A+B+C				3447.73
	Add 12% GST (MF = 0.1405)				484.41
	TOTAL				3932.13
	Overhead and Profits @ 15%				589.82
	Grand Total				4521.95
	Say Rs.				4522.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3040	Basic Price (Valve) - 200 mm dia.	Each	1	8400.00	8400.00
	Add for Cartage etc. @ 1%				84.00
	Total (A)				8484.00
	B Insulation				
4021	Basic Price of Insulation	m	0.3	514.50	154.35

3023	Add Valve Cladding	sqm	0.28	360.00	100.80
	Total				255.15
	Add wastage @ 10%				25.52
	Total				280.67
	Add for Cartage etc. @ 1%				2.81
	Total (B)				283.47
	Total (A+B)				8767.47
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.50	673.00	336.50
1087	Welder	per day	0.25	673.00	166.23
1007	Helper	per day	0.75	553.00	413.09
	For Insulation				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	For Cladding				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	Total of C				1528.82
	Total of A+B+C				10296.29
	Add 12% GST (MF = 0.1405)				1446.63
	TOTAL				11742.92
	Overhead and Profits @ 15%				1761.44
	Grand Total				13504.36
	Say Rs.				13504.00

16.7.3.2 NON - RETURN VALVE of 150 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3041	Basic Price (Valve) - 150 mm dia.	Each	1	4600.00	4600.00
	Add for Cartage etc. @ 1%				46.00
	Total (A)				4646.00
	B Insulation				
4022	Basic Price of Insulation	m	0.3	244.13	73.24
3023	Add Valve Cladding	sqm	0.24	360.00	86.40
	Total				159.64

	Add wastage @ 10%				15.96
	Total				175.60
	Add for Cartage etc. @ 1%				1.76
	Total (B)				177.36
	Total (A+B)				4823.36
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	673.00	336.50
1087	Welder	per day	0.23	673.00	154.79
1007	Helper	per day	0.73	553.00	403.69
	For Insulation				
1004	Fitter	per day	0.25	673.00	168.25
1007	Helper	per day	0.25	553.00	138.25
	For Cladding				
1004	Fitter	per day	0.24	673.00	164.82
1007	Helper	per day	0.24	553.00	135.43
	Total of C				1501.73
	Total of A+B+C				6325.08
	Add 12% GST (MF = 0.1405)				888.67
	TOTAL				7213.76
	Overhead and Profits @ 15%				1082.06
	Grand Total				8295.82
	Say Rs.				8296.00

16.7.3.3 NON - RETURN VALVE of 125 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3042	Basic Price (Valve) - 125 mm dia.	Each	1	3800.00	3800.00
	Add for Cartage etc. @ 1%				38.00
	Total (A)				3838.00
	B Insulation				
4023	Basic Price of Insulation	m	0.3	215.25	64.58
3023	Add Valve Cladding	sqm	0.19	360.00	69.52
	Total				134.09

	Add wastage @ 10%				13.41
	Total				147.50
	Add for Cartage etc. @ 1%				1.48
	Total (B)				148.98
	Total (A+B)				3986.98
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	673.00	336.50
1087	Welder	per day	0.23	673.00	154.79
1007	Helper	per day	0.73	553.00	403.69
	For Insulation				
1004	Fitter	per day	0.23	673.00	154.79
1007	Helper	per day	0.23	553.00	127.19
	For Cladding				
1004	Fitter	per day	0.22	673.00	146.04
1007	Helper	per day	0.22	553.00	120.00
	Total of C				1443.00
	Total of A+B+C				5429.98
	Add 12% GST (MF = 0.1405)				762.91
	TOTAL				6192.89
	Overhead and Profits @ 15%				928.93
	Grand Total				7121.83
	Say Rs.				7122.00

16.7.3.4 NON - RETURN VALVE 100 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3043	Basic Price (Valve) - 100 mm dia.	Each	1	2600.00	2600.00
	Add for Cartage etc. @ 1%				26.00
	Total (A)				2626.00
	B Insulation				
4024	Basic Price of Insulation	m	0.3	189.00	56.70
3023	Add Valve Cladding	sqm	0.17	360.00	61.04
	Total				117.74
	Add wastage @ 10%				11.77

	Total				129.52
	Add for Cartage etc. @ 1%				1.30
	Total (B)				130.81
	Total (A+B)				2756.81
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	673.00	336.50
1087	Welder	per day	0.23	673.00	154.79
1007	Helper	per day	0.73	553.00	403.69
	For Insulation				
1004	Fitter	per day	0.22	673.00	148.06
1007	Helper	per day	0.22	553.00	121.66
	For Cladding				
1004	Fitter	per day	0.22	673.00	146.71
1007	Helper	per day	0.22	553.00	120.55
	Total of C				1431.97
	Total of A+B+C				4188.78
	Add 12% GST (MF = 0.1405)				588.52
	TOTAL				4777.30
	Overhead and Profits @ 15%				716.60
	Grand Total				5493.90
	Say Rs.				5494.00

16.7.3.5 NON - RETURN VALVE of 80 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3044	Basic Price (Valve) - 80 mm dia.	Each	1	1800.00	1800.00
	Add for Cartage etc. @ 1%				18.00
	Total (A)				1818.00
	B Insulation				
4025	Basic Price of Insulation	m	0.2	156.63	31.33
3023	Add Valve Cladding	sqm	0.12	360.00	44.09
	Total				75.41
	Add wastage @ 10%				7.54

Total					82.95
Add for Cartage etc. @ 1%					0.83
Total (B)					83.78
Total (A+B)					1901.78
'C' Labour					
For fixing					
1004	Fitter	per day	0.25	673.00	168.25
1087	Welder	per day	0.20	673.00	134.60
1007	Helper	per day	0.45	553.00	248.85
For Insulation					
1004	Fitter	per day	0.18	673.00	123.16
1007	Helper	per day	0.18	553.00	101.20
For Cladding					
1004	Fitter	per day	0.19	673.00	127.87
1007	Helper	per day	0.19	553.00	105.07
Total of C					1009.00
Total of A+B+C					2910.78
Add 12% GST (MF = 0.1405)					408.96
TOTAL					3319.74
Overhead and Profits @ 15%					497.96
Grand Total					3817.71
Say Rs.					3818.00

16.7.3.6 NON - RETURN VALVE of 65 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3045	Basic Price (Valve) - 65 mm dia.	Each	1	1592.00	1592.00
Add for Cartage etc. @ 1%					15.92
Total (A)					1607.92
B Insulation					
4026	Basic Price of Insulation	m	0.2	142.63	28.53
3023	Add Valve Cladding	sqm	0.07	360.00	26.00
Total					54.52
Add wastage @ 10%					5.45

	Total				59.98
	Add for Cartage etc. @ 1%				0.60
	Total (B)				60.58
	Total (A+B)				1668.50
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.25	673.00	168.25
1087	Welder	per day	0.2	673.00	134.60
1007	Helper	per day	0.45	553.00	248.85
	For Insulation				
1004	Fitter	per day	0.18	673.00	121.14
1007	Helper	per day	0.18	553.00	99.54
	For Cladding				
1004	Fitter	per day	0.19	673.00	127.87
1007	Helper	per day	0.19	553.00	105.07
	Total of C				1005.32
	Total of A+B+C				2673.82
	Add 12% GST (MF = 0.1405)				375.67
	TOTAL				3049.49
	Overhead and Profits @ 15%				457.42
	Grand Total				3506.91
	Say Rs.				3507.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3046	Basic Price (Valve) - 200 mm dia.	Each	1	20154.00	20154.00
	Add for Cartage etc. @ 1%				201.54
	Total (A)				20355.54
	B Insulation				
4021	Basic Price of Insulation	m	0.3	514.50	154.35
3023	Add Valve Cladding	sqm	0.283	360.00	101.74
	Total				256.09

	Add wastage @ 10%				25.61
	Total				281.69
	Add for Cartage etc. @ 1%				2.82
	Total (B)				284.51
	Total (A+B)				20640.05
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.50	673.00	336.50
1087	Welder	per day	0.20	673.00	134.60
1007	Helper	per day	0.70	553.00	387.10
	For Insulation				
1004	Fitter	per day	0.20	673.00	134.60
1007	Helper	per day	0.20	553.00	110.60
	For Cladding				
1004	Fitter	per day	0.22	673.00	148.06
1007	Helper	per day	0.22	553.00	121.66
	Total of C				1373.12
	Total of A+B+C				22013.17
	Add 12% GST (MF = 0.1405)				3092.85
	TOTAL				25106.02
	Overhead and Profits @ 15%				3765.90
	Grand Total				28871.93
	Say Rs.				28872.00

16.7.4.2 Y - STRAINER of 150 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3047	Basic Price (Valve) - 150 mm dia.	Each	1	9604.00	9604.00
	Add for Cartage etc. @ 1%				96.04
	Total (A)				9700.04
	B Insulation				
4022	Basic Price of Insulation	m	0.3	244.13	73.24
3023	Add Valve Cladding	sqm	0.24	360.00	84.78
	Total				158.02
	Add wastage @ 10%				15.80

	Total				173.82
	Add for Cartage etc. @ 1%				1.74
	Total (B)				175.56
	Total (A+B)				9875.60
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.5	673.00	336.50
1087	Welder	per day	0.2	673.00	134.60
1007	Helper	per day	0.75	553.00	414.75
	For Insulation				
1004	Fitter	per day	0.2	673.00	134.60
1007	Helper	per day	0.2	553.00	110.60
	For Cladding				
1004	Fitter	per day	0.2	673.00	134.60
1007	Helper	per day	0.2	553.00	110.60
	Total of C				1376.25
	Total of A+B+C				11251.85
	Add 12% GST (MF = 0.1405)				1580.88
	TOTAL				12832.73
	Overhead and Profits @ 15%				1924.91
	Grand Total				14757.64
	Say Rs.				14758.00

16.7.4.3 Y - STRAINER of 125 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3048	Basic Price (Valve) - 125 mm dia.	Each	1	8995.00	8995.00
	Add for Cartage etc. @ 1%				89.95
	Total (A)				9084.95
	B Insulation				
4023	Basic Price of Insulation	m	0.3	215.25	64.58
3023	Add Valve Cladding	sqm	0.19	360.00	69.52
	Total				134.09
	Add wastage @ 10%				13.41

Total					147.50
Add for Cartage etc. @ 1%					1.48
Total (B)					148.98
Total (A+B)					9233.93
C' Labour					
For fixing					
1004	Fitter	per day	0.50	673.00	339.86
1087	Welder	per day	0.20	673.00	137.96
1007	Helper	per day	0.71	553.00	392.62
For Insulation					
1004	Fitter	per day	0.20	673.00	137.96
1007	Helper	per day	0.20	553.00	113.36
For Cladding					
1004	Fitter	per day	0.20	673.00	137.96
1007	Helper	per day	0.20	553.00	113.36
Total of C					1373.07
Total of A+B+C					10607.00
Add 12% GST (MF = 0.1405)					1490.28
TOTAL					12097.28
Overhead and Profits @ 15%					1814.59
Grand Total					13911.88
Say Rs.					13912.00

16.7.4.4 Y - STRAINER of 100 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3049	Basic Price (Valve) - 100 mm dia.	Each	1	5925.00	5925.00
Add for Cartage etc. @ 1%					59.25
Total (A)					5984.25
B Insulation					
4024	Basic Price of Insulation	m	0.3	189.00	56.70
3023	Add Valve Cladding	sqm	0.17	360.00	61.04
Total					117.74
Add wastage @ 10%					11.77

Total					129.52
Add for Cartage etc. @ 1%					1.30
Total (B)					130.81
Total (A+B)					6115.06
'C' Labour					
For fixing					
1004	Fitter	per day	0.50	673.00	339.80
1087	Welder	per day	0.20	673.00	137.90
1007	Helper	per day	0.71	553.00	392.52
For Insulation					
1004	Fitter	per day	0.20	673.00	137.90
1007	Helper	per day	0.20	553.00	113.31
For Cladding					
1004	Fitter	per day	0.20	673.00	137.90
1007	Helper	per day	0.20	553.00	113.31
Total of C					1372.63
Total of A+B+C					7487.69
Add 12% GST (MF = 0.1405)					1052.02
TOTAL					8539.71
Overhead and Profits @ 15%					1280.96
Grand Total					9820.67
Say Rs.					9821.00

16.7.4.5 Y - STRAINER of 80 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3050	Basic Price (Valve) - 80 mm dia.	Each	1	4345.00	4345.00
Add for Cartage etc. @ 1%					43.45
Total (A)					4388.45
B Insulation					
4025	Basic Price of Insulation	m	0.2	156.63	31.33
3023	Add Valve Cladding	sqm	0.12	360.00	44.09
Total					75.41
Add wastage @ 10%					7.54

Total					82.95
Add for Cartage etc. @ 1%					0.83
Total (B)					83.78
Total (A+B)					4472.23
'C' Labour					
For fixing					
1004	Fitter	per day	0.25	673.00	168.25
1087	Welder	per day	0.20	673.00	134.60
1007	Helper	per day	0.45	553.00	248.85
For Insulation					
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95
For Cladding					
1004	Fitter	per day	0.18	673.00	122.49
1007	Helper	per day	0.18	553.00	100.65
Total of C					958.73
Total of A+B+C					5430.96
Add 12% GST (MF = 0.1405)					763.05
TOTAL					6194.01
Overhead and Profits @ 15%					929.10
Grand Total					7123.12
Say Rs.					7123.00

16.7.4.6 Y - STRAINER of 65 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3051	Basic Price (Valve) - 65 mm dia.	Each	1	3670.80	3670.80
Add for Cartage etc. @ 1%					36.71
Total (A)					3707.51
4026	B Insulation				
	Basic Price of Insulation - 25 mm	m	0.2	142.63	28.53
3023	Add Valve Cladding	sqm	0.07	360.00	26.00
Total					54.52
Add wastage @ 10%					5.45

	Total				59.98
	Add for Cartage etc. @ 1%				0.60
	Total (B)				60.58
	Total (A+B)				3768.08
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.25	673.00	168.58
1087	Welder	per day	0.20	673.00	137.90
1007	Helper	per day	0.46	553.00	251.83
	For Insulation				
1004	Fitter	per day	0.15	673.00	101.28
1007	Helper	per day	0.15	553.00	83.22
	For Cladding				
1004	Fitter	per day	0.18	673.00	121.47
1007	Helper	per day	0.18	553.00	99.81
	Total of C				964.09
	Total of A+B+C				4732.17
	Add 12% GST (MF = 0.1405)				664.87
	TOTAL				5397.04
	Overhead and Profits @ 15%				809.56
	Grand Total				6206.60
	Say Rs.				6207.00

16.7.4.7 Y - STRAINER of 50 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)	UNIT	QTY	RATE	AMOUNT
3052	Basic Price (Valve) - 50 mm dia.	Each	1	2897.00	2897.00
	Add for Cartage etc. @ 1%				28.97
	Total (A)				2925.97
	B Insulation				
4027	Basic Price of Insulation	m	0.2	126.00	25.20
3023	Add Valve Cladding	sqm	0.06	360.00	22.61
	Total				47.81
	Add wastage @ 10%				4.78

Total					52.59
Add for Cartage etc. @ 1%					0.53
Total (B)					53.11
Total (A+B)					2979.08
'C' Labour					
For fixing					
1004	Fitter	per day	0.2	673.00	134.60
1087	Welder	per day	0.2	673.00	134.60
1007	Helper	per day	0.4	553.00	221.20
For Insulation					
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95
For Cladding					
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95
Total of C					858.20
Total of A+B+C					3837.28
Add 12% GST (MF = 0.1405)					539.14
TOTAL					4376.42
Overhead and Profits @ 15%					656.46
Grand Total					5032.89
Say Rs.					5033.00

16.7.4.8 Y - STRAINER of 40 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)	UNIT	QTY	RATE	AMOUNT
3053	Basic Price (Valve) - 40 mm dia.	Each	1	1975.00	1975.00
	Add for Cartage etc. @ 1%				19.75
	Total (A)				1994.75
	B Insulation				
4028	Basic Price of Insulation	m	0.2	112.00	22.40
3023	Add Valve Cladding	sqm	0.06	360.00	20.35
	Total				42.75
	Add wastage @ 10%				4.27

	Total				47.02
	Add for Cartage etc. @ 1%				0.47
	Total (B)				47.49
	Total (A+B)				2042.24
	'C' Labour				
	For fixing				
1004	Fitter	per day	0.15	673.00	100.95
1087	Welder	per day	0.15	673.00	100.95
1007	Helper	per day	0.3	553.00	165.90
	For Insulation				
1004	Fitter	per day	0.14049	673.00	94.55
1007	Helper	per day	0.14049	553.00	77.69
	For Cladding				
1004	Fitter	per day	0.11049	673.00	74.36
1007	Helper	per day	0.11049	553.00	61.10
	Total of C				675.50
	Total of A+B+C				2717.74
	Add 12% GST (MF = 0.1405)				381.84
	TOTAL				3099.59
	Overhead and Profits @ 15%				464.94
	Grand Total				3564.52
	Say Rs.				3565.00

16.8 Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	(A) MATERIAL				
3054	Basic Price of pressure gauges	Each	1.00	760.00	760.00
	Add for cartage etc. @ 1%				7.60
	Total				767.60
	(B) Labour for Fixing				
1004	Fitter	per day	0.15	673.00	100.95
1007	Helper	per day	0.15	553.00	82.95

Total	183.90
Total(A+B)	951.50
Overhead and Profits @ 15%	142.73
Total	1094.23
OR SAY Rs.	1094.00

16.9 Providing & fixing in position the mercury in glass industrial type thermometers.

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	(A) MATERIAL				
3055	Basic Price of thermometer	Each	1	600.00	600.00
	Add Packaging, forwarding and freight etc. @ 1%				6.00
	Total				606.00
	(B) Labour for Fixing				
1004	Fitter	per day	0.10	673.00	67.30
1007	Helper	per day	0.10	553.00	56.46
	Total(B)				123.76
	Total(A+B)				729.76
	Add 12% GST (MF = 0.1405)				102.53
	TOTAL				832.29
	Overhead and Profits @ 15%				124.84
	Grand Total				957.14
	OR SAY Rs.				957.00

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.**(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3003	A(1) Basic Price M.S. Pipe - 300 mm dia.per meter		10	2826.22	28262.20
	add for wastage@5%				1413.11
	Total of (A1)				29675.31
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				4451.30
	Total of (A1)+A(2))				34126.61
	Add for cartage etc. @ 1%of (A(1)+A(2))				341.27
	Total of A				34467.87
	B(Labour)				
	B For Piping work				
1004	Fitter	per day	3.00	673.00	2019.00
1087	Welder	per day	0.95	673.00	639.35
1006	Painter	per day	0.75	612.00	459.00
1007	Helper	per day	4.70	553.00	2599.10
	Total of B(1)				5716.45
	Total A+B				40184.32
	Add 12% GST (MF = 0.1405)				5645.90
	TOTAL				45830.22
	C Overhead and Profits @ 15% of (A+B)				6874.53
	Total				52704.75
	Rate for 1 meter				5270.48
	OR SAY Rs.				5270.00

16.10.1.2 Condenser water piping of nominal size - 250mm dia.**(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3004	A(1) Basic Price M.S. Pipe - 250 mm dia.per meter		10	2354.78	23547.80
	add for wastage@5%				1177.39
	Total of (A1)				24725.19
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				3708.78

Total of (A(I)+A(2))					28433.97
Add for cartage etc. @ 1%of (A(1)+A(2))					284.34
Total of A					28718.31
B(Labour)					
B For Piping work					
1004	Fitter	per day	2.50	673.00	1682.50
1087	Welder	per day	0.95	673.00	639.35
1006	Painter	per day	0.52	612.00	318.24
1007	Helper	per day	3.97	553.00	2195.41
Total of B(1)					4835.50
Total A+B					33553.81
Add 12% GST (MF = 0.1405)					4714.31
TOTAL					38268.12
C Overhead and Profits @ 15% of (A+B)					5740.22
Total					44008.34
Rate for 1 meter					4400.83
TOTAL					4400.83
OR SAY Rs.					4401.00

16.10.1.3 Condenser water piping of nominal size - 200mm dia.
(ANALYSIS OF RATE FOR 10 METRES PIPE)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3005	A(1) Basic Price M.S. Pipe - 200 mm dia.per meter		10	1883.82	18838.20
	add for wastage@5%				941.91
Total of (A1)					19780.11
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				2967.02
Total of (A(I)+A(2))					22747.13
Add for cartage etc. @ 1%of (A(1)+A(2))					227.47
Total of A					22974.60
B(Labour)					
B For Piping work					
1004	Fitter	per day	2.86	673.00	1924.78
1087	Welder	per day	0.95	673.00	639.35
1006	Painter	per day	0.52	612.00	318.24
1007	Helper	per day	4.33	553.00	2394.49

Total of B(1)	5276.86
Total A+B	28251.46
Add 12% GST (MF = 0.1405)	3969.33
TOTAL	32220.79
C Overhead and Profits @ 15% of (A+B)	4833.12
Total	37053.91
Rate for 1 meter	3705.39
OR SAY Rs.	3705.00

16.10.1.4 Condenser water piping of nominal size - 150mm dia.**(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3006	A(1) Basic Price M.S. Pipe - 150 mm dia.per meter		10	1076.37	10763.70
	add for wastage@5%				538.19
	Total of (A1)				11301.89
	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1695.28
	Total of (A1)+A(2))				12997.17
	Add for cartage etc. @ 1%of (A(1)+A(2))				129.97
	Total of A				13127.14
	B(Labour)				
	B For Piping work				
1004	Fitter	per day	2.68	673.00	1803.64
1087	Welder	per day	0.95	673.00	639.35
1006	Painter	per day	0.52	612.00	318.24
1007	Helper	per day	4.15	553.00	2294.95
	Total of B(1)				5056.18
	Total A+B				18183.32
	Add 12% GST (MF = 0.1405)				2554.76
	TOTAL				20738.08
	C Overhead and Profits @ 15% of (A+B)				3110.71
	Total				23848.79
	Rate for 1 meter				2384.88
	OR SAY Rs.				2385.00

16.10.1.5 Condenser water piping of nominal size - 125mm dia.**(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3007	A(1) Basic Price M.S. Pipe - 125 mm dia.per meter		10	912.33	9123.30
	add for wastage@5%				456.17
	Total of (A1)				9579.47
	A(2) Add for necessary brackets,supports, saddles,clamps, hangers,vibration-isolators and fittings such as bends, tees etc. @ 15%				1436.92
	Total of (A1)+A(2)				11016.38
	Add for cartage etc. @ 1%of (A(1)+A(2))				110.16
	Total of A				11126.55
	B(Labour)				
	B For Piping work				
1004	Fitter	per day	2.50	673.00	1682.50
1087	Welder	per day	0.91	673.00	612.43
1006	Painter	per day	0.52	612.00	318.24
1007	Helper	per day	3.93	553.00	2173.29
	Total of B(1)				4786.46
	Total A+B				15913.01
	Add 12% GST (MF = 0.1405)				2235.78
	TOTAL				18148.79
	C Overhead and Profits @ 15% of (A+B)				2722.32
	Total				20871.10
	Rate for 1 meter				2087.11
	TOTAL				2087.11
	OR SAY Rs.				2087.00

16.10.1.6 Condenser water piping of nominal size - 100mm dia.**(ANALYSIS OF RATE FOR 10 METRES PIPE)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3008	A(1) Basic Price M.S. Pipe - 100 mm dia.per meter		10	743.88	7438.80
	add for wastage@5%				371.94
	Total of (A1)				7810.74

	A(2) Add for necessary brackets, supports, saddles, clamps, hangers, vibration-isolators and fittings such as bends, tees etc. @ 15%				1171.61
	Total of (A(1)+A(2))				8982.35
	Add for cartage etc. @ 1% of (A(1)+A(2))				89.82
	Total of A				9072.17
	B(Labour)				
	B For Piping work				
1004	Fitter	per day	2.40	673.00	1615.20
1087	Welder	per day	0.80	673.00	538.40
1006	Painter	per day	0.52	612.00	318.24
1007	Helper	per day	3.72	553.00	2057.16
	Total of B(1)				4529.00
	Total A+B				13601.17
	Add 12% GST (MF = 0.1405)				1910.97
	TOTAL				15512.14
	C Overhead and Profits @ 15% of (A+B)				2326.82
	Total				17838.96
	Rate for 1 meter				1783.90
	TOTAL				1783.90
	OR SAY Rs.				1784.00

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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3024	Basic Price (Valve) - 200 mm dia.	Each	1	7946.00	7946.00
	Add for cartage etc. @ 1% of A				79.46
	Total (A)				8025.46
	B Labour				
	For fixing				

1004	Fitter	per day	0.5	673.00	319.68
1087	Welder	per day	0.2	673.00	100.95
1007	Helper	per day	0.6	553.00	345.63
Total of B					766.25
Total of A+B					8791.71
Add 12% GST (MF = 0.1405)					1235.24
TOTAL					10026.95
Overhead and Profits @ 15%					1504.04
Grand Total					11530.99
Say Rs.					11531.00

16.11.1.2 BUTTERFLY VALVE (MANUAL) of 150 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3025	Basic Price (Valve) - 150 mm dia.	Each	1	3272.00	3272.00
	Add for cartage etc. @ 1%				32.72
Total (A)					3304.72
'B' Labour					
For fixing					
1004	Fitter	per day	0.50	673.00	336.50
1087	Welder	per day	0.19	673.00	127.20
1007	Helper	per day	0.69	553.00	381.02
Total of B					844.71
Total of A+B					4149.43
Add 12% GST (MF = 0.1405)					583.00
TOTAL					4732.43
Overhead and Profits @ 15%					709.86
Grand Total					5442.29
Say Rs.					5442.00

16.11.1.3 BUTTERFLY VALVE (MANUAL) 125 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3026	Basic Price (Valve) - 125 mm dia.	Each	1	2780.00	2780.00
	Add for cartage etc. @ 1% of A				27.80

	Total (A)				2807.80
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.5	673.00	336.50
1087	Welder	per day	0.2	673.00	129.89
1007	Helper	per day	0.7	553.00	383.23
	Total of B				849.62
	Total of A+B				3657.42
	Add 12% GST (MF = 0.1405)				513.87
	TOTAL				4171.29
	Overhead and Profits @ 15%				625.69
	Grand Total				4796.98
	Say Rs.				4797.00

16.11.1.4 BUTTERFLY VALVE (MANUAL) 100 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3027	Basic Price (Valve) - 100 mm dia.	Each	1	2255.00	2255.00
	Add for cartage etc. @ 1%				22.55
	Total (A)				2277.55
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.5	673.00	336.50
1087	Welder	per day	0.2	673.00	137.83
1007	Helper	per day	0.7	553.00	389.75
	Total of B				864.08
	Total of A+B				3141.63
	Add 12% GST (MF = 0.1405)				441.40
	TOTAL				3583.03
	Overhead and Profits @ 15%				537.46
	Grand Total				4120.49
	Say Rs.				4120.00

16.11.1.5 BUTTERFLY VALVE (MANUAL) 80 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3028	Basic Price (Valve) - 80 mm dia.	Each	1	1714.00	1714.00
	Add for cartage etc. @ 1%				17.14
	Total (A)				1731.14
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.30	673.00	203.92
1087	Welder	per day	0.16	673.00	107.68
1007	Helper	per day	0.46	553.00	256.04
	Total of B				567.64
	Total of A+B				2298.78
	Add 12% GST (MF = 0.1405)				322.98
	TOTAL				2621.76
	Overhead and Profits @ 15%				393.26
	Grand Total				3015.02
	Say Rs.				3015.00

16.11.1.6 BUTTERFLY VALVE (MANUAL) 65 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3029	Basic Price (Valve) - 65 mm dia.	Each	1	1550.00	1550.00
	Add for cartage etc. @ 1%				15.50
	Total (A)				1550.00
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.3	673.00	201.90
1087	Welder	per day	0.2	673.00	134.60
1007	Helper	per day	0.5	553.00	276.50
	Total of B				613.00
	Total of A+B				2163.00
	Add 12% GST (MF = 0.1405)				303.90
	TOTAL				2466.90
	Overhead and Profits @ 15%				370.04
	Grand Total				2836.94
	Say Rs.				2837.00

16.11.1.7 BUTTERFLY VALVE (MANUAL) 50 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3030	Basic Price (Valve) - 50 mm dia.	Each	1	1468.00	1468.00
	Add for cartage etc. @ 1%				14.68
	Total (A)				1482.68
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.22	673.00	149.88
1087	Welder	per day	0.15	673.00	100.95
1007	Helper	per day	0.37	553.00	206.10
	Total of B				456.93
	Total of A+B				1939.61
	Add 12% GST (MF = 0.1405)				272.52
	TOTAL				2212.13
	Overhead and Profits @ 15%				331.82
	Grand Total				2543.94
	Say Rs.				2544.00

16.11.1.8 BUTTERFLY VALVE (MANUAL) 40 mm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3031	Basic Price (Valve) - 40 mm dia.	Each	1	1468.00	1468.00
	Add for cartage etc. @ 1%				14.68
	Total (A)				1482.68
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.15	673.00	103.64
1087	Welder	per day	0.12	673.00	80.76
1007	Helper	per day	0.27	553.00	151.52
	Total of B				335.92
	Total of A+B				1818.60
	Add 12% GST (MF = 0.1405)				255.51
	TOTAL				2074.12
	Overhead and Profits @ 15%				311.12
	Grand Total				2385.24
	Say Rs.				2385.00

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**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3040	Basic Price (Valve) - 200 mm dia.	Each	1	8400.00	8400.00
	Add for cartage etc. @ 1%				84.00
	Total (A)				8484.00
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.50	673.00	336.50
1087	Welder	per day	0.16	673.00	104.32
1007	Helper	per day	0.66	553.00	362.22
	Total of B				803.03
	Total of A+B				9287.03
	Add 12% GST (MF = 0.1405)				1304.83
	TOTAL				10591.86
	Overhead and Profits @ 15%				1588.78
	Grand Total				12180.64
	Say Rs.				12181.00

16.11.2.2 NON - RETURN VALVE of 150 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3041	Basic Price (Valve) - 150 mm dia.	Each	1	4600.00	4600.00
	Add for cartage etc. @ 1%				46.00
	Total (A)				4646.00
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.50	673.00	339.86
1087	Welder	per day	0.16	673.00	111.04
1007	Helper	per day	0.67	553.00	370.50
	Total of B				821.40
	Total of A+B				5467.40

Add 12% GST (MF = 0.1405)	768.17
TOTAL	6235.56
Overhead and Profits @ 15%	935.33
Grand Total	7170.90
Say Rs.	7171.00

16.11.2.3 NON - RETURN VALVE of 125 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3042	Basic Price (Valve) - 125 mm dia.	Each	1	3800.00	3800.00
	Add for cartage etc. @ 1%				38.00
	Total (A)				3838.00
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.50	673.00	336.50
1087	Welder	per day	0.19	673.00	129.22
1007	Helper	per day	0.69	553.00	382.68
	Total of B				848.39
	Total of A+B				4686.39
	Add 12% GST (MF = 0.1405)				658.44
	TOTAL				5344.83
	Overhead and Profits @ 15%				801.72
	Grand Total				6146.55
	Say Rs.				6147.00

16.11.2.4 NON - RETURN VALVE 100 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3043	Basic Price (Valve) - 100 mm dia.	Each	1	2600.00	2600.00
	Add for cartage etc. @ 1%				26.00
	Total (A)				2626.00
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.50	673.00	337.85

1087	Welder	per day	0.20	673.00	137.90
1007	Helper	per day	0.71	553.00	390.92
	Total of B				866.66
	Total of A+B				3492.66
	Add 12% GST (MF = 0.1405)				490.72
	TOTAL				3983.38
	Overhead and Profits @ 15%				597.51
	Grand Total				4580.88
	Say Rs.				4581.00

16.11.2.5 NON - RETURN VALVE of 80 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3044	Basic Price (Valve) - 80 mm dia.	Each	1	1800.00	1800.00
	Add for cartage etc. @ 1%				18.00
	Total (A)				1818.00
	'B' Labour				
	For fixing				
1004	Fitter	per day	0.32	673.00	215.36
1087	Welder	per day	0.15	673.00	100.28
1007	Helper	per day	0.47	553.00	259.36
	Total of B				574.99
	Total of A+B				2392.99
	Add 12% GST (MF = 0.1405)				336.22
	TOTAL				2729.21
	Overhead and Profits @ 15%				409.38
	Grand Total				3138.59
	Say Rs.				3139.00

16.11.2.6 NON - RETURN VALVE of 65 mm dia

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3045	Basic Price (Valve) - 65 mm dia.	Each	1	1592.00	1592.00
	Add for cartage etc. @ 1%				15.92

Total (A)					1607.92
'B' Labour					
For fixing					
1004	Fitter	per day	0.32	673.00	218.05
1087	Welder	per day	0.15	673.00	103.64
1007	Helper	per day	0.48	553.00	264.33
Total of B					586.03
Total of A+B					2193.95
Add 12% GST (MF = 0.1405)					308.25
TOTAL					2502.20
Overhead and Profits @ 15%					375.33
Grand Total					2877.53
Say Rs.					2878.00

16.11.3 Supplying, fixing, testing and commissioning of following sizes Motorized Butterfly 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.

Detail of cost for Each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
MATERIAL					
3101	(A) Basic Price	each	1.00	74792.00	74792.00
	Cartage @ 1% of materials				747.92
	ITC including wiring @6 % of A				4487.52
Sub Total					80027.44
Add 12% GST (MF = 0.1405)					11243.86
TOTAL					91271.30
Add 15 % Over Head & Contractor Profit					13690.69
Cost for Each					104961.99
Say					104962.00

16.11.3.2 300mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3102	(A) Basic Price	each	1.00	67023.00	67023.00
	Cartage @ 1% of materials				670.23
	ITC including wiring @6% of A				4021.38
	Sub Total				71714.61
	Add 12% GST (MF = 0.1405)				10075.90
	TOTAL				81790.51
	Add 15 % Over Head & Contractor Profit				12268.58
	Cost for Each				94059.09
	Say				94059.00

16.11.3.3 250mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3103	(A) Basic Price	each	1.00	48253.00	48253.00
	Cartage @ 1% of materials				482.53
	ITC including wiring @6% of A				2895.18
	Sub Total				51630.71
	Add 12% GST (MF = 0.1405)				7254.11
	TOTAL				58884.82
	Add 15 % Over Head & Contractor Profit				8832.72
	Cost for Each				67717.55
	Say				67718.00

16.11.3.4 200mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3104	(A) Basic Price	each	1.00	36397.00	36397.00
	Cartage @ 1% of materials				363.97

ITC including wiring @ 7.5 % of A	2729.78
Sub Total	39490.75
Add 12% GST (MF = 0.1405)	5548.45
TOTAL	45039.19
Add 15 % Over Head & Contractor Profit	6755.88
Cost for Each	51795.07
Say	51795.00

16.11.3.5 150mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3105	(A) Basic Price	each	1.00	28217.00	28217.00
	Cartage @ 1% of materials				282.17
	ITC including wiring @ 7.5 % of A				2116.28
	Sub Total				30615.45
	Add 12% GST (MF = 0.1405)				4301.47
	TOTAL				34916.92
	Add 15 % Over Head & Contractor Profit				5237.54
	Cost for Each				40154.45
	Say				40154.00

16.11.3.6 125mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3106	(A) Basic Price	each	1.00	27974.00	27974.00
	Cartage @ 1% of materials				279.74
	ITC including wiring @ 7.5 % of A				2098.05
	Sub Total				30351.79
	Add 12% GST (MF = 0.1405)				4264.43
	TOTAL				34616.22
	Add 15 % Over Head & Contractor Profit				5192.43
	Cost for Each				39808.65
	Say				39809.00

16.11.3.7 100mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3107	(A) Basic Price	each	1.00	27455.00	27455.00
	Cartage @ 1% of materials				274.55
	ITC including wiring @ 7.5 % of A				2059.13
	Sub Total				29788.68
	Add 12% GST (MF = 0.1405)				4185.31
	TOTAL				33973.98
	Add 15 % Over Head & Contractor Profit				5096.10
	Cost for Each				39070.08
	Say				39070.00

16.11.3.8 80mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3108	(A) Basic Price	each	1.00	11739.00	11739.00
	Cartage @ 1% of materials				117.39
	ITC including wiring @ 7.5 % of A				880.43
	Sub Total				12736.82
	Add 12% GST (MF = 0.1405)				1789.52
	TOTAL				14526.34
	Add 15 % Over Head & Contractor Profit				2178.95
	Cost for Each				16705.29
	Say				16705.00

16.11.3.9 65mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3109	(A) Basic Price	each	1.00	11626.00	11626.00
	Cartage @ 1% of materials				116.26
	ITC including wiring @ 7.5 % of A				871.95

Sub Total	12614.21
Add 12% GST (MF = 0.1405)	1772.30
TOTAL	14386.51
Add 15 % Over Head & Contractor Profit	2157.98
Cost for Each	16544.48
Say	16544.00

16.11.3.10 50mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3110	(A) Basic Price	each	1.00	11388.00	11388.00
	Cartage @ 1% of materials				113.88
	ITC including wiring @ 7.5 % of A				854.10
	Sub Total				12355.98
	Add 12% GST (MF = 0.1405)				1736.02
	TOTAL				14092.00
	Add 15 % Over Head & Contractor Profit				2113.80
	Cost for Each				16205.79
	Say				16206.00

16.11.4 Supply, Installation, Testing and Commissioning of following sizes electronic, self-balancing, pressure independent type dynamic balancing valve with integrated 2 way modulating 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.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3111	(A) Basic Price	each	1.00	107870.00	107870.00
	Cartage @ 1% of materials				1078.70
	ITC including wiring @6% of A				6472.20
	Sub Total				115420.90
	Add 12% GST (MF = 0.1405)				16216.64

TOTAL	131637.54
Add 15 % Over Head & Contractor Profit	19745.63
Cost for Each	151383.17
Say	151383.00

16.11.4.2 125mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3112	(A) Basic Price	each	1.00	98210.00	98210.00
	Cartage @ 1% of materials				982.10
	ITC including wiring @6 % of A				5892.60
	Sub Total				105084.70
	Add 12% GST (MF = 0.1405)				14764.40
	TOTAL				119849.10
	Add 15 % Over Head & Contractor Profit				17977.37
	Cost for Each				137826.47
	Say				137826.00

16.11.4.3 100mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3113	(A) Basic Price	each	1.00	77280.00	77280.00
	Cartage @ 1% of materials				772.80
	ITC including wiring @6% of A				4636.80
	Sub Total				82689.60
	Add 12% GST (MF = 0.1405)				11617.89
	TOTAL				94307.49
	Add 15 % Over Head & Contractor Profit				14146.12
	Cost for Each				108453.61
	Say				108454.00

16.11.4 4 80mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3114	(A) Basic Price	each	1.00	45080.00	45080.00
	Cartage @ 1% of materials				450.80

ITC including wiring @ 7.5 % of A	3381.00
Sub Total	48911.80
Add 12% GST (MF = 0.1405)	6872.11
TOTAL	55783.91
Add 15 % Over Head & Contractor Profit	8367.59
Cost for Each	64151.49
Say	64151.00

16.11.4.5 65mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3115	(A) Basic Price	each	1.00	35420.00	35420.00
	Cartage @ 1% of materials				354.20
	ITC including wiring @ 7.5 % of A				2656.50
	Sub Total				38430.70
	Add 12% GST (MF = 0.1405)				5399.51
	TOTAL				43830.21
	Add 15 % Over Head & Contractor Profit				6574.53
	Cost for Each				50404.75
	Say				50405.00

16.11.4.6 50mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3116	(A) Basic Price	each	1.00	22943.00	22943.00
	Cartage @ 1% of materials				229.43
	ITC including wiring @ 7.5 % of A				1720.73
	Sub Total				24893.16
	Add 12% GST (MF = 0.1405)				3497.49
	TOTAL				28390.64
	Add 15 % Over Head & Contractor Profit				4258.60
	Cost for Each				32649.24
	Say				32649.00

16.11.4.7 40mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3117	(A) Basic Price	each	1.00	20930.00	20930.00
	Cartage @ 1% of materials				209.30
	ITC including wiring @ 7.5 % of A				1569.75
	Sub Total				22709.05
	Add 12% GST (MF = 0.1405)				3190.62
	TOTAL				25899.67
	Add 15 % Over Head & Contractor Profit				3884.95
	Cost for Each				29784.62
	Say				29785.00

16.11.4.8 32mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3118	(A) Basic Price	each	1.00	11270.00	11270.00
	Cartage @ 1% of materials				112.70
	ITC including wiring @ 7.5 % of A				845.25
	Sub Total				12227.95
	Add 12% GST (MF = 0.1405)				1718.03
	TOTAL				13945.98
	Add 15 % Over Head & Contractor Profit				2091.90
	Cost for Each				16037.87
	Say				16038.00

16.11.4.9 25mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3119	(A) Basic Price	each	1.00	10600.00	10600.00
	Cartage @ 1% of materials				106.00
	ITC including wiring @ 7.5 % of A				795.00

Sub Total	11501.00
Add 12% GST (MF = 0.1405)	1615.89
TOTAL	13116.89
Add 15 % Over Head & Contractor Profit	1967.53
Cost for Each	15084.42
Say	15084.00

16.11.4.10 20mm dia.**Detail of cost for Each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3120	(A) Basic Price	each	1.00	7728.00	7728.00
	Cartage @ 1% of materials				77.28
	ITC including wiring @ 7.5 % of A				579.60
	Sub Total				8384.88
	Add 12% GST (MF = 0.1405)				1178.08
	TOTAL				9562.96
	Add 15 % Over Head & Contractor Profit				1434.44
	Cost for Each				10997.40
	Say				10997.00

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.

**16.12.1.1factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006
(ANALYSIS OF RATE FOR 10 METRES DUCT)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3056	Basic Price of 0.63 mm sheet duct	per sqm	10	468.50	4685.00
	Add Supports like MS angles, channels, rods, anchor bolts and other accessories etc. @ 15%				702.75
	Total of A				5387.75
	(B) Cartage @ 1%				53.88
	Total (A+B)				5441.63
	(C) Labour				

	Labour for boxing of L-section. @05%				272.08
	Labour for Fixing				
1004	Fitter	per day	1.45	673.00	975.85
1007	Helper	per day	1.45	553.00	801.85
	Total of (C) labour				2049.78
	Total of A+B+C				7491.41
	Add 12% GST (MF = 0.1405)				1052.54
	TOTAL				8543.95
	Overhead and Profits @ 15%				1281.59
	TOTAL				9825.54
	For 1sq mt				982.55
	OR SAY Rs.				983.00

16.12.1.2 factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006
(ANALYSIS OF RATE FOR 10 METRES DUCT)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3057	Basic Price of 0.80 mm sheet duct	per sqm	10	575.40	5754.00
	Add Supports like MS angles, channels, rods, anchor bolts and other accessories etc. @ 15%				863.10
	Total of A				6617.10
	(B) Cartage @ 1%				66.17
	Total (A+B)				6683.27
	(C) Labour				
	Labour for boxing of L-section. @05%				334.16
	Labour for Fixing				
1004	Fitter	per day	1.45	673.00	975.85
1007	Helper	per day	1.45	553.00	801.85
	Total of (C)labour				2111.86
	Total of A+B+C				8795.13
	Add 12% GST (MF = 0.1405)				1235.72
	TOTAL				10030.85
	Overhead and Profits @ 15%				1504.63
	TOTAL				11535.48
	For 1sq mt				1153.55
	OR SAY Rs.				1154.00

**16.12.1.3 factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006
(ANALYSIS OF RATE FOR 10 METRES DUCT)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3058	Basic Price of 1.0 mm sheet duct	per sqm	10	692.50	6925.00
	Add Supports like MS angles, channels, rods, anchor bolts and other accessories etc. @ 15%				1038.75
	Total of A				7963.75
	(B) Cartage @ 1%				79.64
	Total (A+B)				8043.39
	(C) Labour				
	Labour for boxing of L-section. @05%				398.19
	Labour for Fixing				
1004	Fitter	per day	1.03	673.00	693.19
1007	Helper	per day	1.03	553.00	569.59
	Total of (C)labour				1660.97
	Total of A+B+C				9704.36
	Add 12% GST (MF = 0.1405)				1363.46
	TOTAL				11067.82
	Overhead and Profits @ 15%				1660.17
	TOTAL				12727.99
	For 1sq mt				1272.80
	OR SAY Rs.				1273.00

**16.12.1.4 factory fabricated GSS sheet metal rectangular ducting as per IS 655-2006
(ANALYSIS OF RATE FOR 10 METRES DUCT)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3059	Basic Price of 1.25 mm sheet	per sqm	10	830.00	8300.00
	Add Supports like MS angles, channels, rods, anchor bolts and other accessories etc. @ 15%				1245.00
	Total of A				9545.00
	(B) Cartage @ 1%				95.45
	Total (A+B)				9640.45
	(C) Labour				
	Labour for boxing of L-section. @05%				482.02

Labour for Fixing					
1004	Fitter	per day	2.17	673.00	1460.41
1007	Helper	per day	2.17	553.00	1200.01
Total of (C)labour					3142.44
Total of A+B+C					12782.89
Add 12% GST (MF = 0.1405)					1796.00
TOTAL					14578.89
Overhead and Profits @ 15%					2186.83
TOTAL					16765.72
For 1sq mt					1676.57
OR SAY Rs.					1677.00

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

(ANALYSIS OF RATE FOR 10 METRES DUCT)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3060	Basic Price of 0.63 mm sheet	per sqm	10	373.00	3730.00
	Add Wastage @ 10%				373.00
Total of A					4103.00
	(B) Cartage @ 1%				41.03
Total (A+B)					4144.03
B Labour					
Labour for Fabrication					
1004	Fitter	per day	1.48	673.00	996.04
1007	Helper	per day	1.48	553.00	818.44
Labour for Fixing					
1004	Fitter	per day	1.00	673.00	673.00
1007	Helper	per day	1.00	553.00	553.00
Total of labour					3040.48
Total (A+B)					7184.51

Add 12% GST (MF = 0.1405)	1009.42
TOTAL	8193.93
C Overhead and Profit @ 15% of A+B	1229.09
G Total	9423.02
cost per sqm	942.30
Say	942.00

16.12.2.2 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 0.8. mm thick

(ANALYSIS OF RATE FOR 10 METRES DUCT)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3061	Basic Price of 0.80 mm sheet	per sqm	10	497.00	4970.00
	Add Wastage @ 10%				497.00
	Total of A				5467.00
	(B) Cartage @ 1%				54.67
	Total (A+B)				5521.67
	B Labour				
	Labour for Fabrication				
1004	Fitter	per day	1.48	673.00	992.68
1007	Helper	per day	1.48	553.00	815.68
	Labour for Fixing				
1004	Fitter	per day	1	673.00	598.97
1007	Helper	per day	1	553.00	492.17
	Total of labour				2899.49
	Total (A+B)				8421.16
	Add 12% GST (MF = 0.1405)				1183.17
	TOTAL				9604.33
	C Overhead and Profit @ 15% of A+B				1440.65
	G Total				11044.98
	cost per sqm				1104.50
	Say				1104.00

16.12.2.3 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 1.00 mm thick
(ANALYSIS OF RATE FOR 10 METRES DUCT)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3062	Basic Price of 1.00 mm sheet	per sqm	10	622.00	6220.00
	Add Wastage @ 10%				622.00
	Total of A				6842.00
	(B) Cartage @ 1%				68.42
	Total (A+B)				6910.42
	B Labour				
	Labour for Fabrication				
1004	Fitter	per day	2.00	673.00	1346.00
1007	Helper	per day	2.00	553.00	1106.00
	Labour for Fixing				
1004	Fitter	per day	1.43	673.00	962.39
1007	Helper	per day	1.43	553.00	790.79
	Total of labour				4205.18
	Total (A+B)				11115.60
	Add 12% GST (MF = 0.1405)				1561.74
	TOTAL				12677.34
	C Overhead and Profit @ 15% of A+B				1901.60
	G Total				14578.94
	cost per sqm				1457.89
	Say				1458.00

16.12.2.4 Site fabricated GSS sheet metal rectangular ducting as per IS 655-2006 for 1.25 mm thick
(ANALYSIS OF RATE FOR 10 METRES DUCT)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)	UNIT	QTY	RATE	AMOUNT
3063	Basic Price of 1.25 mm sheet	per sqm	10	752.00	7520.00
	Add Wastage @ 10%				752.00
	Total of A				8272.00
	(B) Cartage @ 1%				82.72
	Total (A+B)				8354.72

B Labour					
Labour for Fabrication					
1004	Fitter	per day	2	673.00	1211.40
1007	Helper	per day	2	553.00	995.40
Labour for Fixing					
1004	Fitter	per day	1.43	673.00	962.39
1007	Helper	per day	1.43	553.00	790.79
Total of labour					3959.98
Total (A+B)					12314.70
Add 12% GST (MF = 0.1405)					1730.22
TOTAL					14044.92
C Overhead and Profit @ 15% of A+B					2106.74
G Total					16151.65
cost per sqm					1615.17
Say					1615.00

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.

16.13 GI volume control duct damper

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A(Materials)					
3064	Basic Price	per sqm	1	4300.00	4300.00
	Add for cartage etc. @ 1%				43.00
Total of A					4343.00
(B) Labour for Fixing					
1004	Fitter	per day	0.50	673.00	336.50
1007	Helper	per day	0.50	553.00	276.50
Total					613.00
Total of A+B					4956.00
Add 12% GST (MF = 0.1405)					696.32
TOTAL					5652.32
Overhead and Profits @ 15%					847.85
TOTAL					6500.17
OR SAY Rs.					6500.00

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

16.14.1 Motorized (ON-OFF Type) duct mounted GI volume control damper

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3064	Basic Price	per sqm	1	4300.00	4300.00
	Total				4300.00
	Add for cartage etc. @ 1%				43.00
	Total of A				4343.00
	Labour for Fixing				
1004	Fitter	per day	0.50	673.00	336.50
1001	Wireman	per day	0.90	673.00	607.05
1007	Helper	per day	1.40	553.00	775.31
	Total of B				1718.85
	Total of A+B				6061.85
	Add 12% GST (MF = 0.1405)				851.69
	TOTAL				6913.54
	Overhead and Profits @ 15%				1037.03
	TOTAL				7950.57
	OR SAY Rs.				7951.00

16.14.2 Motorized (ON-OFF Type) duct mounted GI volume control Actuator

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3065	Basic Price	each	1	4307.00	4307.00
	Add for cartage etc. @ 1%				43.07
	Total of A				4350.07
	B Labour for Fixing				
1004	Fitter	per day	0.50	673.00	336.50
1001	Wireman	per day	0.90	673.00	607.05
1007	Helper	per day	1.40	553.00	775.31
	Total of B				1718.85
	Total of A+B				6068.92

Add 12% GST (MF = 0.1405)	852.68
TOTAL	6921.61
Overhead and Profits @ 15%	1038.24
TOTAL	7959.85
OR SAY Rs.	7960.00

**16.15 Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications.
(ANALYSIS OF RATE FOR 10 METRES)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)	UNIT	QTY	RATE	AMOUNT
3066	Basic Price	per sqm	10	6072.00	60720.00
	Add fo cartage etc. @ 1%				607.20
	Add for screws etc.	LS			260.00
	Total of A				61587.20
	B Labour for Fixing				
1004	Fitter	per day	2.50	673.00	1682.50
1007	Helper	per day	2.50	553.00	1382.50
	Total of B				3065.00
	Total of A+B				64652.20
	Add 12% GST (MF = 0.1405)				9083.63
	TOTAL				73735.83
	Overhead and Profits @ 15%				11060.38
	TOTAL				84796.21
	Rate for 1 sqm				8479.62
	OR SAY Rs.				8480.00

**16.16 Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.
(ANALYSIS OF RATE FOR 10 METRES)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3067	Basic Price	per sqm	10	3828.00	38280.00
	Add for cartage etc. @ 1%				382.80
	Add for screws etc.	LS			260.00

	Total of A				38922.80
	B Labour for Fixing				
1004	Fitter	per day	2.5	673.00	1682.50
1007	Helper	per day	2.50	553.00	1382.50
	Total of B				3065.00
	Total of A+B				41987.80
	Add 12% GST (MF = 0.1405)				5899.29
	TOTAL				47887.09
	Overhead and Profits @ 15%				7183.06
	TOTAL				55070.15
	Rate for 1 sqm				5507.01
	OR SAY Rs.				5507.00

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.

(ANALYSIS OF RATE FOR 10 METRES)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3068	Basic Price	per sqm	10	8250.00	82500.00
	Add for cartage etc. @ 1%				825.00
	Add for screws etc.	LS			250.00
	Total of A				83575.00
	B Labour for Fixing				
1004	Fitter	per day	2.50	673.00	1682.50
1007	Helper	per day	2.50	553.00	1382.50
	Total of B				3065.00
	Total of A+B				86640.00
	Add 12% GST (MF = 0.1405)				12172.92
	TOTAL				98812.92
	Overhead and Profits @ 15%				14821.94
	TOTAL				113634.86
	Rate for 1 sqm				11363.49
	OR SAY Rs.				11363.00

16.18 Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core. (ANALYSIS OF RATE FOR 10 METRES)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)	UNIT	QTY	RATE	AMOUNT
3069	Basic Price	per sqm	10	5378.00	53780.00
	Add for cartage etc. @ 1%				537.80
	Add for screws etc.	LS			250.00
	Total of A				54567.80
	B Labour for Fixing				
1004	Fitter	per day	2.50	673.00	1682.50
1007	Helper	per day	2.50	553.00	1382.50
	Total of B				3065.00
	Total of A+B				57632.80
	Add 12% GST (MF = 0.1405)				8097.41
	TOTAL				65730.21
	Overhead and Profits @ 15%				9859.53
	TOTAL				75589.74
	Rate for 1 sqm				7558.97
	OR SAY Rs.				7559.00

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.

**16.19.1 Thermal insulated flexible duct (200mmdia)
(ANALYSIS OF RATE FOR 10 METRES DUCT)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3070	Basic price	per m	10	329.00	3290.00
	Add for supports etc.@5%				164.50
	Total				3454.50
	Add for cartage etc. @ 1%				34.55
	Total				3489.05
	B Labour for Fixing				

1004	Fitter	per day	0.50	673.00	336.50
1007	Helper	per day	0.50	553.00	276.50
	Total of labour				613.00
	Total				4102.05
	Add 12% GST (MF = 0.1405)				576.34
	TOTAL				4678.38
	Overhead and Profits @ 15%				701.76
	TOTAL				5380.14
	For 1meter				538.01
	OR SAY Rs.				538.00

- 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

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)				
3071	Basic Price	persqm	1	6854.00	6854.00
	Add for cartage etc. @ 1%				68.54
	Total				6922.54
	B Labour for Fixing				
1004	Fitter	per day	0.50	673.00	336.50
1007	Helper	per day	0.50	553.00	276.50
	Total of labour				613.00
	Total				7535.54
	Add 12% GST (MF = 0.1405)				1058.74
	TOTAL				8594.28
	Overhead and Profits @ 15%				1289.14
	TOTAL				9883.43
	OR SAY Rs.				9883.00

16.20.2 Actuator

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A(Materials)	UNIT	QTY	RATE	AMOUNT
3072	Basic Price		1	6307.00	6307
	Add for cartage etc. @ 1%				63
	Total				6370
	Labour for Fixing				
1004	Fitter	per day	0.50	673.00	333.14
1001	Wireman	per day	0.04	673.00	25.57
1007	Helper	per day	0.53	553.00	294.75
	Total of labour				653.46
	Total				7023.53
	Add 12% GST (MF = 0.1405)				986.81
	TOTAL				8010.33
	Overhead and Profits @ 15%				1201.55
	TOTAL				9211.88
	TOTAL				9211.88
	OR SAY Rs.				9212.00

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
(ANALYSIS OF RATE FOR 10 SQ. M.)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material	UNIT	QTY	RATE	AMOUNT
4069	Basic Price	persqm	10	109.80	1098.00
	Add Wastage @ 15%				164.70
	Total				1262.70
	Add for Frame work of aluminium channel etc.@25%				274.50
	Total				1537.20

4070	Add for reinforced fiber glass tissue and 0.80 mm perforated aluminium sheet etc.	persqm	10.00	299.00	2990.00
	Total				4527.20
	Add Cartage etc. @ 1%				45.27
	Total of A				4572.47
	B(1) Labour For lining works				
1004	Fitter	per day	0.60	673.00	403.80
1007	Helper	per day	0.60	553.00	331.80
	Total of B(1)				735.60
	B(1) Labour For insulation works				
1004	Fitter	per day	0.30	673.00	201.90
1007	Helper	per day	0.30	553.00	165.90
	Total of B(1)				367.80
	Total				1103.40
	TOTAL				5675.87
	Add 12% GST (MF = 0.1405)				797.46
	TOTAL				6473.33
	Rate for 1 sqmeter				647.33
	OR SAY Rs.				647.00

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
(ANALYSIS OF RATE FOR 10 SQ. M.)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material	UNIT	QTY	RATE	AMOUNT
4071	Basic Price	persqm	10	219.00	2190.00
	Add Wastage @ 10%				219.00
	Total				2409.00
	Add for adhesive compound and tape etc. @ 05%				120.45
	Total				4938.45
	Add for Frame work of aluminium channel i/c screws etc. etc.@25%				1234.61

	Total				6173.06
4070	Add for reinforced fiber glass tissue and 0.80 mm perforated aluminium sheet etc.	10.00	299.00	2990.00	
	Total				9163.06
	Add Cartage etc. @ 1%				91.63
	Total Of A				9254.69
	B(1) Labour For lining works				
1004	Fitter	per day	0.4	673.00	269.20
1007	Helper	per day	0.4	553.00	221.20
	Total of B(1)				490.40
	B(1) Labour For insulation works				
1004	Fitter	per day	0.2	673.00	134.60
1007	Helper	per day	0.2	553.00	110.60
	Total of B(1)				245.20
	Total				735.60
	TOTAL A+B				9990.29
	Add 12% GST (MF = 0.1405)				1403.64
	TOTAL				11393.93
	Rate for 1 sqmeter				1139.39
	OR SAY Rs.				1139.00

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.

(ANALYSIS OF RATE FOR 10 SQ.M DUCT)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3076	Basic Price of nitrile rubber Insulation - 19 mmsqm	10	423.00	4230.00	
	Add Wastage @ 05%				211.50
	Total				4441.50
	Add for adhesive compound and tape etc. @ 05%				211.50
	Total				4653.00
	Add for cartage etc. @ 1% of A				46.53
	Total				4699.53
	B' Labour				

	For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B				613.00
	Total A+B				5312.53
	Overhead and Profits @ 15% of (A+B)				796.88
	Total				6109.41
	Add 12% GST (MF = 0.1405)				858.37
	TOTAL				6967.78
	For 1 sq meter				696.78
	OR SAY Rs.				697.00

16.23.2 Nitrile rubber Insulation - 25 mm
(ANALYSIS OF RATE FOR 10 SQ.M DUCT)

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3077	Basic Price	sqm	10	560.00	5600.00
	Add Wastage @ 05%				280.00
	Total				5880.00
	Add for adhesive compound and tape etc. @ 05%				280.00
	Total				6160.00
	Add for cartage etc. @ 1% of A				61.60
	Total				6221.60
	B' Labour				
	For Insulation works				
1004	Fitter	per day	0.5	673.00	336.50
1007	Helper	per day	0.5	553.00	276.50
	Total of B				613.00
	Total A+B				6834.60
	Add 12% GST (MF = 0.1405)				960.26
	TOTAL				7794.86
	Overhead and Profits @ 15% of (A+B)				1169.23
	Total				8964.09
	For 1 sq meter				896.41
	TOTAL				896.41
	OR SAY Rs.				896.00

- 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
(ANALYSIS OF RATE FOR 10 SQ. M. DUCT)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
4072	Basic Price	per sqm	10.00	162.00	1620.00
	Add Wastage @ 10%				162.00
	Total				1782.00
	Add for Adhesive compound, aluminium tape and wire mesh etc.@15%				267.30
	Total				2049.30
	Add for cartage etc. @ 1%				20.49
	Total				2069.79
	B Labour for Fixing				
1004	Fitter	per day	1.00	673.00	673.00
1007	Helper	per day	1.00	553.00	553.00
	Total for labour				1226.00
	Total of A and B				3295.79
	Add 12% GST (MF = 0.1405)				463.06
	TOTAL				3758.85
	Overhead and Profits @ 15%				563.83
	Total				4322.68
	Rate for 1 sq m				432.27
	OR SAY Rs.				432.00

- 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
(ANALYSIS OF RATE FOR 10 SQ. M.DUCT)**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
4072	Basic Price	Sq.m.	10.00	162.00	1620.00
	Add Wastage @ 10%				162.00
	Total				1782.00
	Add for Adhesive compound,aluminium tape and wire mesh etc.@15%				267.30
	Total				2049.30
	Add for cartage etc. @ 1%				20.49
	Total				2069.79
	B Labour for Fixing				
1004	Fitter	per day	1.00	673.00	673.00
1007	Helper	per day	1.00	553.00	553.00
	Total for labour				1226.00
	Total of A and B				3295.79
	LS for bituman and Tar felt				590.00
	Total				3885.79
	Add 12% GST (MF = 0.1405)				545.95
	TOTAL				4431.75
	Overhead and Profits @ 15%				664.76
	Total				5096.51
	Rate for 1 sq m				509.65
	OR SAY Rs.				510.00

AIR HANDLING UNITS

- 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 $415 \pm 10\%$ 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 (Rs.)
	A Material				
3078	Basic Price		1	70437.00	70437.00
	Add for cartage etc. @ 1%				704.37
	Total A				71141.37
	ITC @6% of A				4268.48
	Total				75409.85
	Add 12% GST (MF = 0.1405)				10595.08
	TOTAL				86004.94
	Overhead and Profits @ 15%				12900.74
	Total				98905.68
	OR SAY Rs.				98906.00

16.26.2 Double skin AHU Units of 6 row cooling coil of 5100 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3079	Basic Price		1	82867.00	82867.00
	Add for cartage etc. @ 1%				828.67
	Total A				83695.67
	ITC @6% of A				5021.74
	Total				88717.41
	Add 12% GST (MF = 0.1405)				12464.80
	TOTAL				101182.21
	Overhead and Profits @ 15%				15177.33
	Total				116359.54
	OR SAY Rs.				116360.00

16.26.3 Double skin AHU Units of 6 row cooling coil of 6800 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3080	Basic Price		1	93120.00	93120.00
	Add for cartage etc. @ 1%				931.20
	Total A				94051.20

ITC @6% of A	5643.07
Total	99694.27
Add 12% GST (MF = 0.1405)	14007.05
TOTAL	113701.32
Overhead and Profits @ 15%	17055.20
Total	130756.51
OR SAY Rs.	130757.00

16.26.4 Double skin AHU Units of 6 row cooling coil of 8500 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3081	Basic Price		1	115360.00	115360.00
	115360.00				
	Add for cartage etc. @ 1%				1153.60
	Total A				116513.60
	ITC @6% of A				6990.82
	Total				123504.42
	Add 12% GST (MF = 0.1405)				17352.37
	TOTAL				140856.79
	Overhead and Profits @ 15%				21128.52
	Total				161985.30
	OR SAY Rs.				161985.00

16.26.5 Double skin AHU Units of 6 row cooling coil of 10200 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3082	Basic Price		1	133040.00	133040.00
	Add for cartage etc. @ 1%				1330.40
	Total A				134370.40
	ITC @6% of A				8062.22
	Total				142432.62
	Add 12% GST (MF = 0.1405)				20011.78
	TOTAL				162444.41
	Overhead and Profits @ 15%				24366.66
	Total				186811.07
	OR SAY Rs.				186811.00

16.26.6 Double skin AHU Units of 6 row cooling coil of 11900 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3083	Basic Price		1	151200.00	151200.00
	Add for cartage etc. @ 1%				1512.00
	Total A				152712.00
	ITC @6% of A				9162.72
	Total				161874.72
	Add 12% GST (MF = 0.1405)				22743.40
	TOTAL				184618.12
	Overhead and Profits @ 15%				27692.72
	Total				212310.84
	OR SAY Rs.				212311.00

16.26.7 Double skin AHU Units of 6 row cooling coil of 13600 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3084	Basic Price		1	162400.00	162400.00
	Add for cartage etc. @ 1%				1624.00
	Total A				164024.00
	ITC @6% of A				9841.44
	Total				173865.44
	Add 12% GST (MF = 0.1405)				24428.09
	TOTAL				198293.53
	Overhead and Profits @ 15%				29744.03
	Total				228037.56
	OR SAY Rs.				228038.00

16.26.8 Double skin AHU Units of 6 row cooling coil of 15300 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3085	Basic Price		1	184080.00	184080.00
	Add for cartage etc. @ 1%				1840.80
	Total A				185920.80

ITC @6% of A	11155.25
Total	197076.05
Add 12% GST (MF = 0.1405)	27689.18
TOTAL	224765.23
Overhead and Profits @ 15%	33714.78
Total	258480.02
OR SAY Rs.	258480.00

16.26.9 Double skin AHU Units of 6 row cooling coil of 17000 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3086	Basic Price		1	194800.00	194800.00
	Add for cartage etc. @ 1%				1948.00
	Total A				196748.00
	ITC @6% of A				11804.88
	Total				208552.88
	Add 12% GST (MF = 0.1405)				29301.68
	TOTAL				237854.56
	Overhead and Profits @ 15%				35678.18
	Total				273532.74
	OR SAY Rs.				273533.00

16.26.10 Double skin AHU Units of 6 row cooling coil of 18700 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3087	Basic Price		1	215280.00	215280.00
	Add for cartage etc. @ 1%				2152.80
	Total A				217432.80
	ITC @6% of A				13045.97
	Total				230478.77
	Add 12% GST (MF = 0.1405)				32382.27
	TOTAL				262861.03
	Overhead and Profits @ 15%				39429.16
	Total				302290.19
	OR SAY Rs.				302290.00

16.26.11 Double skin AHU Units of 6 row cooling coil of 20400 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3088	Basic Price		1	231280.00	231280.00
	Add for cartage etc. @ 1%				2312.80
	Total A				233592.80
	ITC @6% of A				14015.57
	Total				247608.37
	Add 12% GST (MF = 0.1405)				34788.98
	TOTAL				282397.34
	Overhead and Profits @ 15%				42359.60
	Total				324756.95
	OR SAY Rs.				324757.00

16.26.12 Double Skin AHU Units of 6 row cooling coil of 23800 CMH**Detail of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3142	Basic Price	each	1.00	253609.00	253609.00
	Total of materials				253609.00
	Cartage @ 1% of materials				2536.09
	TOTAL				256145.09
	ITC @ 6 % of A				15368.71
	TOTAL				271513.80
	Add 12% GST (MF = 0.1405)				38147.69
	TOTAL				309661.48
	Add 15 % Over Head & Contractor Profit				46449.22
	Cost for 1 Set				356110.71
	Say				356111.00

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 (Rs.)
	MATERIAL				
3143	Basic Price	each	1.00	267830.00	267830.00
	Total of materials				267830.00
	Cartage @ 1% of materials				2678.30

TOTAL	270508.30
ITC @ 6 % of A	16230.50
TOTAL	286738.80
Add 12% GST (MF = 0.1405)	40286.80
TOTAL	327025.60
Add 15 % Over Head & Contractor Profit	49053.84
Cost for 1 Set	376079.44
Say	376079.00

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 (Rs.)
	MATERIAL				
3144	Basic Price	each	1.00	296847.00	296847.00
	Total of materials				296847.00
	Cartage @ 1% of materials				2968.47
	TOTAL				299815.47
	ITC @ 6 % of A				17988.93
	TOTAL				317804.40
	Add 12% GST (MF = 0.1405)				44651.52
	TOTAL				362455.92
	Add 15 % Over Head & Contractor Profit				54368.39
	Cost for 1 Set				416824.30
	Say				416824.00

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 (Rs.)
	MATERIAL				
3145	Basic Price	each	1.00	340181.00	340181.00
	Total of materials				340181.00
	Cartage @ 1% of materials				3401.81
	TOTAL				343582.81
	ITC @ 6 % of A				20614.97
	TOTAL				364197.78

Add 12% GST (MF = 0.1405)	51169.79
TOTAL	415367.57
Add 15 % Over Head & Contractor Profit	62305.13
Cost for 1 Set	477672.70
Say	477673.00

- 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 $415 \pm 10\%$ 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 (Rs.)
	A Material				
3089	Basic Price		1	62070.00	62070.00
	Add for cartage etc. @ 1%				620.70
	Total A				62690.70
	ITC @6% of A				3761.44
	Total				66452.14
	Add 12% GST (MF = 0.1405)				9336.53
	TOTAL				75788.67
	Overhead and Profits @ 15%				11368.30
	Total				87156.97
	OR SAY Rs.				87157.00

16.27.2 Double skin AHU Units of 4 row cooling coil of 5100 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3090	Basic Price		1	72855.00	72855.00
	Add for cartage etc. @ 1%				728.55

Total A	73583.55
ITC @6% of A	4415.01
Total	77998.56
Add 12% GST (MF = 0.1405)	10958.80
TOTAL	88957.36
Overhead and Profits @ 15%	13343.60
Total	102300.97
OR SAY Rs.	102301.00

16.27.3 Double skin AHU Units of 4 row cooling coil of 6800 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3091	Basic Price		1	81293.00	81293.00
	Add for cartage etc. @ 1%				812.93
	Total A				82105.93
	ITC @6% of A				4926.36
	Total				87032.29
	Add 12% GST (MF = 0.1405)				12228.04
	TOTAL				99260.32
	Overhead and Profits @ 15%				14889.05
	Total				114149.37
	OR SAY Rs.				114149.00

16.27.4 Double skin AHU Units of 4 row cooling coil of 8500 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3092	Basic Price		1	100589.00	100589.00
	Add for cartage etc. @ 1%				1005.89
	Total A				101594.89
	ITC @6% of A				6095.69
	Total				107690.58
	Add 12% GST (MF = 0.1405)				15130.53
	TOTAL				122821.11
	Overhead and Profits @ 15%				18423.17
	Total				141244.28
	OR SAY Rs.				141244.00

16.27.5 Double skin AHU Units of 4 row cooling coil of 10200 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3093	Basic Price		1	117680.00	117680.00
	Add for cartage etc. @ 1%				1176.80
	Total A				118856.80
	ITC @6% of A				7131.41
	Total				125988.21
	Add 12% GST (MF = 0.1405)				17701.34
	TOTAL				143689.55
	Overhead and Profits @ 15%				21553.43
	Total				165242.98
	OR SAY Rs.				165243.00

16.27.6 Double skin AHU Units of 4 row cooling coil of 11900 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3094	Basic Price		1	131734.00	131734.00
	Add for cartage etc. @ 1%				1317.34
	Total A				133051.34
	ITC @6% of A				7983.08
	Total				141034.42
	Add 12% GST (MF = 0.1405)				19815.34
	TOTAL				160849.76
	Overhead and Profits @ 15%				24127.46
	Total				184977.22
	OR SAY Rs.				184977.00

16.27.7 Double skin AHU Units of 4 row cooling coil of 13600 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3095	Basic Price		1	142400.00	142400.00
	Add for cartage etc. @ 1%				1424.00
	Total A				143824.00

ITC @6% of A	8629.44
Total	152453.44
Add 12% GST (MF = 0.1405)	21419.71
TOTAL	173873.15
Overhead and Profits @ 15%	26080.97
Total	199954.12
OR SAY Rs.	199954.00

16.27.8 Double skin AHU Units of 4 row cooling coil of 15300 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3096	Basic Price		1	161840.00	161840.00
	Add for cartage etc. @ 1%				1618.40
	Total A				163458.40
	ITC @6% of A				9807.50
	Total				173265.90
	Add 12% GST (MF = 0.1405)				24343.86
	TOTAL				197609.76
	Overhead and Profits @ 15%				29641.46
	Total				227251.23
	OR SAY Rs.				227251.00

16.27.9 Double skin AHU Units of 4 row cooling coil of 17000 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3097	Basic Price		1	170320.00	170320.00
	Add for cartage etc. @ 1%				1703.20
	Total A				172023.20
	ITC @6% of A				10321.39
	Total				182344.59
	Add 12% GST (MF = 0.1405)				25619.42
	TOTAL				207964.01
	Overhead and Profits @ 15%				31194.60
	Total				239158.61
	OR SAY Rs.				239159.00

16.27.10 Double skin AHU Units of 4 row cooling coil of 18700 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3098	Basic Price		1	186357.00	186357.00
	Add for cartage etc. @ 1%				1863.57
	Total A				188220.57
	ITC @6% of A				11293.23
	Total				199513.80
	Add 12% GST (MF = 0.1405)				28031.69
	TOTAL				227545.49
	Overhead and Profits @ 15%				34131.82
	Total				261677.32
	OR SAY Rs.				261677.00

16.27.11 Double skin AHU Units of 4 row cooling coil of 20400 CMH

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	A Material				
3099	Basic Price		1	202080.00	202080.00
	Add for cartage etc. @ 1%				2020.80
	Total A				204100.80
	ITC @6% of A				12246.05
	Total				216346.85
	Add 12% GST (MF = 0.1405)				30396.73
	TOTAL				246743.58
	Overhead and Profits @ 15%				37011.54
	Total				283755.12
	OR SAY Rs.				283755.00

16.27.12 Double Skin AHU Units of 4 row cooling coil of 23800 CMH**Detail of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3162	Basic Price	each	1.00	192140.00	192140.00
	Total of materials				192140.00
	Cartage @ 1% of materials				1921.40
	TOTAL				194061.40

ITC @ 6 % of A	11643.68
TOTAL	205705.08
Add 12% GST (MF = 0.1405)	28901.56
TOTAL	234606.65
Add 15 % Over Head & Contractor Profit	35191.00
Cost for 1 Set	269797.65
Say	269798.00

16.27.13 Double Skin AHU Units of 4 row cooling coil of 28900 CMH**Detail of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3163	Basic Price	each	1.00	245209.00	245209.00
	Total of materials				245209.00
	Cartage @ 1% of materials				2452.09
	TOTAL				247661.09
	ITC @ 6 % of A				14859.67
	TOTAL				262520.76
	Add 12% GST (MF = 0.1405)				36884.17
	TOTAL				299404.92
	Add 15 % Over Head & Contractor Profit				44910.74
	Cost for 1 Set				344315.66
	Say				344316.00

16.27.14 Double Skin AHU Units of 4 row cooling coil of 34000 CMH**Detail of cost for 1 Set**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
	MATERIAL				
3164	Basic Price	each	1.00	271744.00	271744.00
	Total of materials				271744.00
	Cartage @ 1% of materials				2717.44
	TOTAL				274461.44
	ITC @ 6 % of A				16467.69
	TOTAL				290929.13
	Add 12% GST (MF = 0.1405)				40875.54
	TOTAL				331804.67
	Add 15 % Over Head & Contractor Profit				49770.70
	Cost for 1 Set				381575.37
	Say				381575.00

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 (Rs.)
	MATERIAL				
3165	Basic Price	each	1.00	311355.00	311355.00
	Total of materials				311355.00
	Cartage @ 1% of materials				3113.55
	TOTAL				314468.55
	ITC @ 6 % of A				18868.11
	TOTAL				333336.66
	Add 12% GST (MF = 0.1405)				46833.80
	TOTAL				380170.46
	Add 15 % Over Head & Contractor Profit				57025.57
	Cost for 1 Set				437196.03
	Say				437196.00

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 54°C/ 57°C with rate of rise cum fixed temperature (dual thermistor) type with mounting base complete with all connection etc. as required.

COST FOR 1 POINT

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A	Materials				
4101	Heat Detectors of electronic Rate of Rise cum fixed temperature (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	673.00	26.92
1007	Khallas	day	0.04	553.00	22.12
	Total				49.04
	Total of A+B Rs.				806.54
	Add 12% GST (MF = 0.1405)				113.32
	Total				919.86
C	Overhead & Profit @ 15%				137.98
	Total				1057.84
	Rate of Each				1057.84
	Say				1058.00

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 (Rs.)
A	Materials				
4102	Smoke Detector with built in LED, 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	673	26.92
1007	Khallasi	day	0.04	553.00	22.12
	Total				49.04
	Total of A+B Rs.				869.67
	Add 12% GST (MF = 0.1405)				122.19
	Total				991.85
C	Overhead & Profit @ 15%				148.78
	Total				1140.63
	Rate of Each				1140.63
	Say				1141.00

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 (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553.00	22.12
	Total				49.04
	Total of A+B Rs.				352.04
	Add 12% GST (MF = 0.1405)				49.46
	Total				401.50
C	Overhead & Profit @ 15%				60.23
	Total				461.73
	Rate of Each				461.73
	Say				462.00

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 (Rs.)
A	Materials				
4104	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	673	26.92
1007	Khallasi	day	0.04	553.00	22.12
	Total				49.04
	Total of A+B Rs.				301.54
	Add 12% GST (MF = 0.1405)				42.37
	Total				343.91
C	Overhead & Profit @ 15%				51.59
	Total				395.49
	Rate of Each				395.49
	Say				395.00

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 (Rs.)
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	673	26.92

1007	Khallasi	day	0.04	553.00	22.12
	Total				49.04
	Total of A+B Rs.				139.94
	Add 12% GST applicable on work contract, by reversible method (multiplying factor 0.1405)				19.66
	Total				159.60
C	Overhead & Profit @ 15%				23.94
	Total				183.54
	Rate of Each				183.54
	Say				184.00

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 (Rs.)
A	Materials				
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	1.00	362.50	362.50
	Cartage @1% of A				3.63
	Total				366.13
B	Labour				
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553.00	22.12
	Total				49.04
	Total of A+B Rs.				415.17
	Add 12% GST (MF = 0.1405)				58.33
	Total				473.50
C	Overhead & Profit @ 15%				71.02
	Total				544.52
	Rate of Each				544.52
	Say				545.00

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 (Rs.)
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 transformer etc.	each	1.00	312.50	312.50
	Cartage @1% of A				3.13
	Total				315.63
B	Labour				
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553.00	22.12
	Total				49.04
	Total of A+B Rs.				364.67
	Add 12% GST (MF = 0.1405)				51.24
	Total				415.90
C	Overhead & Profit @ 15%				62.39
	Total				478.29
	Rate of Each				478.29
	Say				478.00

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 (Rs.)
A	Materials				
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	1.00	625.00	625.00
	Cartage @1% of A				6.25
	Total				631.25

B	Labour				
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553.00	22.12
	Total				49.04
	Total of A+B Rs.				680.29
	Add 12% GST (MF = 0.1405)				95.58
	Total				775.87
C	Overhead & Profit @ 15%				116.38
	Total				892.25
	Rate of Each				892.25
	Say				892.00

17.1.9 Supplying, installation, testing & commissioning sector panel suitable for following zones, complete with visual indications for short circuit fault, open circuit fault, fire condition and all other standard facilities as per IS:2189 with mimic diagram for all area/zone covered, complete with all connections, interconnections as required.

17.1.9.1 4 Zone

COST FOR 1 POINT

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A	Materials				
4109	4 Zone fire alarm control panel as per IS: 2189 with backlit LCD Display	each	1.00	4875.00	4875.00
	Cartage @1% of A				48.75
	Total				4923.75
B	Labour				
1019	Electrician	day	1.25	673	841.25
1007	Khallasi	day	1.25	553.00	691.25
	Total				1532.50
	Total of A+B Rs.				6456.25
	Add 12% GST (MF = 0.1405)				907.10
	Total				7363.35
C	Overhead & Profit @ 15%				1104.50
	Total				8467.86
	Rate of Each				8467.86
	Say				8468.00

17.1.9.2 6 Zone**COST FOR 1 POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673	841.25
1007	Khallasi	day	1.25	553.00	691.25
	Total				1532.50
	Total of A+B Rs.				8981.25
	Add 12% GST (MF = 0.1405)				1261.87
	Total				10243.12
C	Overhead & Profit @ 15%				1536.47
	Total				11779.58
	Rate of Each				11779.58
	Say				11780.00

17.1.9.3 10 Zone**COST FOR 1 POINT**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673	1177.75
1007	Khallasi	day	1.75	553.00	967.75
	Total				2145.50
	Total of A+B Rs.				11993.00
	Add 12% GST (MF = 0.1405)				1685.02
	Total				13678.02

C	Overhead & Profit @ 15%	2051.70
	Total	15729.72
	Rate of Each	15729.72
	Say	15730.00

17.1.10 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 (Rs.)
A	Materials				
4112	10 zone control panel for fire alarm system with following:-	each	1	47177.00	47177.00
	Total				47177.00
	Cartage @1% of A				471.77
	Total				47648.77
B	Labour				
1020	Electronic Technician	day	2	673	1346.00
1019	Electrician	day	3	673	2019.00
1007	Khallas	day	3	553.00	1659.00
	Total				5024.00
	Total of A+B Rs.				52672.77
	Add 12% GST (MF = 0.1405)				7400.52
	Total				60073.29
C	Overhead & Profit @ 15%				9010.99
	Total				69084.29
	Rate of Each				69084.29
	Say				69084.00

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 (Rs.)
A	Materials				
4113	6 zone control panel for fire alarm system with following:-	each	1	32272.00	32272.00
	Total				32272.00
	Cartage @1% of A				322.72
	Total				32594.72
B	Labour				
1020	Electronic Technician	day	2	673.00	1346.00
1019	Electrician	day	2	673.00	1346.00
1007	Khallasi	day	2	553.00	1106.00
	Total				3798.00
	Total of A+B Rs.				36392.72
	Add 12% GST (MF = 0.1405)				5113.18
	Total				41505.90
C	Overhead & Profit @ 15%				6225.88
	Total				47731.78
	Rate of Each				47731.78
	Say				47732.00

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 (Rs.)
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
1021	Technician	day	2.00	673.00	1346.00
1007	Khallasi	day	2.00	553.00	1106.00
	Total				5452.00
	Total of A+B Rs.				346832.00
	Add 12% GST (MF = 0.1405)				48729.90
	Total				395561.90
C	Overhead & Profit @ 15%				59334.28
	Total				454896.18
	Rate of Each				454896.18
	Say				454896.00

17.2.1.2 Two Loop Panel.**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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
1021	Technician	day	1.00	673	673.00
1007	Khallasi	day	1.00	553.00	553.00
	Total				2726.00
	Total of A+B Rs.				182152.50
	Add 12% GST (MF = 0.1405)				25592.43
	Total				207744.93
C	Overhead & Profit @ 15%				31161.74
	Total				238906.67
	Rate of Each				238906.67
	Say				238907.00

17.2.2 Supplying, installation, testing & commissioning of central graphical fire alarm management system to centrally monitor and operate the fire alarm system complete as required.

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	2100.00
1021	Technician	day	1	673	673.00
1007	Khallasi	day	2	553.00	1106.00
	Total				3879.00
	Total of A+B Rs.				152601.50
	Add 12% GST (MF = 0.1405)				21440.51
	Total				174042.01
C	Overhead & Profit @ 15%				26106.30
	Total				200148.31
	Rate of Each				200148.31
	Say				200148.00

17.2.3 Supplying, installation, testing & commissioning of repeater panel with 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 (Rs.)
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	525.00
1021	Technician	day	0.25	673	168.25
1007	Khallasi	day	0.50	553.00	276.50
	Total				969.75
	Total of A+B Rs.				82779.75
	Add 12% GST (MF = 0.1405)				11630.55
	Total				94410.30
C	Overhead & Profit @ 15%				14161.55
	Total				108571.85
	Rate of Each				108571.85
	Say				108572.00

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 (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553.00	22.12
	Total				49.04
	Total of A+B Rs.				2169.54
	Add 12% GST (MF = 0.1405)				304.82

	Total	2474.35
C	Overhead & Profit @ 15%	371.15
	Total	2845.51
	Rate of Each	2845.51
	Say	2846.00

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 (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553.00	22.12
	Total				49.04
	Total of A+B Rs.				200.54
	Add 12% GST (MF = 0.1405)				28.18
	Total				228.72
C	Overhead & Profit @ 15%				34.31
	Total				263.02
	Rate of Each				263.02
	Say				263.00

17.2.6 Supplying, installation, testing & commissioning of intelligent addressable programmable sounder complete as required.

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553.00	22.12
	Total				169.04
	Total of A+B Rs.				2011.28
	Add 12% GST (MF = 0.1405)				282.58
	Total				2293.86
C	Overhead & Profit @ 15%				344.08
	Total				2637.94
	Rate of Each				2637.94
	Say				2638.00

17.2.7 Supplying, installation, testing & commissioning of fault isolator complete with base as required.

Details of cost for one each

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553.00	22.12
	Total				169.04
	Total of A+B Rs.				2483.35
	Add 12% GST (MF = 0.1405)				348.91
	Total				2832.27
C	Overhead & Profit @ 15%				424.84
	Total				3257.11
	Rate of Each				3257.11
	Say				3257.00

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 (Rs.)
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	1500.00
1019	Electrician	day	1.00	673	673.00
1007	Khallasi	day	1.00	553	553.00
	Total				2726.00
	Total of A+B Rs.				224926.00
	Add 12% GST (MF = 0.1405)				31602.10
	Total				256528.10
C	Overhead & Profit @ 15%				38479.22
	Total				295007.32
	Rate of Each				295007.32
	Say				295007.00

17.2.9 Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required.**Details of cost for one each**

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A	Materials				
4123	Cost of intelligent addressable thermal detector	each	1.00	1881.00	1881.00
	Total				1881.00
	Cartage @1% of A				18.81
	Total				1899.81
B	Labour				
1017	Engineer	day	0.08	1500	120.00
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				169.04

	Total of A+B Rs.	2068.85
	Add 12% GST (MF = 0.1405)	290.67
	Total	2359.52
C	Overhead & Profit @ 15%	353.93
	Total	2713.45
	Rate of Each	2713.45
	Say	2713.00

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 (Rs.)
A	Materials				
4124	Cost of control module	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	120.00
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				169.04
	Total of A+B Rs.				2279.94
	Add 12% GST (MF = 0.1405)				320.33
	Total				2600.27
C	Overhead & Profit @ 15%				390.04
	Total				2990.31
	Rate of Each				2990.31
	Say				2990.00

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 (Rs.)
A	Materials				
4125	Cost of addressable fire phone control module	each	1.00	2289.50	2289.50
	Cartage @1% of A				22.90

	Total				2312.40
B	Labour				
1017	Engineer	day	0.08	1500	120.00
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				169.04
	Total of A+B Rs.				2481.44
	Add 12% GST (MF = 0.1405)				348.64
	Total				2830.08
C	Overhead & Profit @ 15%				424.51
	Total				3254.59
	Rate of Each				3254.59
	Say				3255.00

17.2.12 Supplying, installation, testing & commissioning of addressable beam detector with short circuit isolator (inbuilt or seporate) 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 (Rs.)
A	Materials				
4126	Cost of addressable beam detector with remote test features	each	1.00	55100.00	55100.00
	Cartage @1% of A				551.00
	Total				55651.00
B	Labour				
1017	Engineer	day	0.5	1500	750.00
1019	Electrician	day	0.5	673	336.50
1007	Khallasi	day	0.5	553	276.50
	Total				1363.00
	Total of A+B Rs.				57014.00
	Add 12% GST (MF = 0.1405)				8010.47
	Total				65024.47
C	Overhead & Profit @ 15%				9753.67
	Total				74778.14
	Rate of Each				74778.14
	Say				74778.00

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 (Rs.)
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	120.00
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				169.04
	Total of A+B Rs.				5948.11
	Add 12% GST (MF = 0.1405)				835.71
	Total				6783.82
C	Overhead & Profit @ 15%				1017.57
	Total				7801.39
	Rate of Each				7801.39
	Say				7801.00

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 (Rs.)
A	Materials				
4128	Cost of manual call point	each	1.00	2745.50	2745.50
	Cartage @1% of A				27.46
	Total				2772.96
B	Labour				
1017	Engineer	day	0.08	1500	120.00
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				169.04

	Total of A+B Rs.	2942.00
	Add 12% GST (MF = 0.1405)	413.35
	Total	3355.35
C	Overhead & Profit @ 15%	503.30
	Total	3858.65
	Rate of Each	3858.65
	Say	3859.00

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 (Rs.)
A	Materials				
4129	Cost of Horn cum strobe	each	1.00	2470.00	2470.00
	Cartage @1% of A				24.70
	Total				2494.70
B	Labour				
1017	Engineer	day	0.08	1500	120.00
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				169.04
	Total of A+B Rs.				2663.74
	Add 12% GST (MF = 0.1405)				374.26
	Total				3038.00
C	Overhead & Profit @ 15%				455.70
	Total				3493.69
	Rate of Each				3493.69
	Say				3494.00

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 (Rs.)
A	Materials				
4130	Cost of Strobe	each	1.00	2364.55	2364.55
	Cartage @1% of A				23.65
	Total				2388.20

B	Labour				
1017	Engineer	day	0.08	1500	120.00
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				169.04
	Total of A+B Rs.				2557.24
	Add 12% GST (MF = 0.1405)				359.29
	Total				2916.53
C	Overhead & Profit @ 15%				437.48
	Total				3354.01
	Rate of Each				3354.01
	Say				3354.00

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 (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				49.04
	Total of A+B Rs.				4366.79
	Add 12% GST (MF = 0.1405)				613.53
	Total				4980.32
C	Overhead & Profit @ 15%				747.05
	Total				5727.37
	Rate of Each				5727.37
	Say				5727.00

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 (Rs.)
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	120.00
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				169.04
	Total of A+B Rs.				143134.54
	Add 12% GST (MF = 0.1405)				20110.40
	Total				163244.94
C	Overhead & Profit @ 15%				24486.74
	Total				187731.68
	Rate of Each				187731.68
	Say				187732.00

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 (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				49.04
	Total of A+B Rs.				1210.04
	Add 12% GST (MF = 0.1405)				170.01
	Total				1380.04

C	Overhead & Profit @ 15%	207.01
	Total	1587.05
	Rate of Each	1587.05
	Say	1587.00

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 (Rs.)
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	120.00
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				169.04
	Total of A+B Rs.				96371.54
	Add 12% GST (MF = 0.1405)				13540.20
	Total				109911.74
C	Overhead & Profit @ 15%				16486.76
	Total				126398.50
	Rate of Each				126398.50
	Say				126399.00

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 (Rs.)
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	673	26.92

1007	Khallasi	day	0.04	553	22.12
	Total				49.04
	Total of A+B Rs.				725.74
	Add 12% GST (MF = 0.1405)				101.97
	Total				827.71
C	Overhead & Profit @ 15%				124.16
	Total				951.86
	Rate of Each				951.86
	Say				952.00

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 (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				49.04
	Total of A+B Rs.				1356.99
	Add 12% GST (MF = 0.1405)				190.66
	Total				1547.65
C	Overhead & Profit @ 15%				232.15
	Total				1779.79
	Rate of Each				1779.79
	Say				1780.00

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 (Rs.)
A	Materials				
4137	Cost of wall mounted loud speaker, 3/1.5 Watt in ABS enclosure	each	1.00	1775.00	1775.00
	Cartage @1% of A				17.75

	Total				1792.75
B	Labour				
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				49.04
	Total of A+B Rs.				1841.79
	Add 12% GST (MF = 0.1405)				258.77
	Total				2100.56
C	Overhead & Profit @ 15%				315.08
	Total				2415.65
	Rate of Each				2415.65
	Say				2416.00

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 (Rs.)
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
B	Labour				
1019	Electrician	day	0.04	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				49.04
	Total of A+B Rs.				1392.34
	Add 12% GST (MF = 0.1405)				195.62
	Total				1587.96
C	Overhead & Profit @ 15%				238.19
	Total				1826.16
	Rate of Each				1826.16
	Say				1826.00

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 (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				49.04
	Total of A+B Rs.				73779.04
	Add 12% GST (MF = 0.1405)				10365.96
	Total				84145.00
C	Overhead & Profit @ 15%				12621.75
	Total				96766.74
	Rate of Each				96766.74
	Say				96767.00

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 (Rs.)
A	Materials				
4140	Cost of Digital audio amplifier 75 Watt 25VRMS 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	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				49.04
	Total of A+B Rs.				111149.04
	Add 12% GST (MF = 0.1405)				15616.44
	Total				126765.48

C	Overhead & Profit @ 15%	19014.82
	Total	145780.30
	Rate of Each	145780.30
	Say	145780.00

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 (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				49.04
	Total of A+B Rs.				7725.04
	Add 12% GST (MF = 0.1405)				1085.37
	Total				8810.41
C	Overhead & Profit @ 15%				1321.56
	Total				10131.97
	Rate of Each				10131.97
	Say				10132.00

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 (Rs.)
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	673	26.92
1007	Khallasi	day	0.04	553	22.12
	Total				49.04
	Total of A+B Rs.				62324.63
	Add 12% GST (MF = 0.1405)				8756.61
	Total				71081.24
C	Overhead & Profit @ 15%				10662.19
	Total				81743.43
	Rate of Each				81743.43
	Say				81743.00

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 464.52 sqm

ICD No	Description	Unit	Qty	Rate	Amount (Rs.)
A	Materials				
4143	Cost of 25 mm Outer dia PVC/ABS Pipe with end caps including making air sampling opening of appropriate dia on appropriate interval.	Mtr.	80.00	78.00	6240.00
	Fittings & accessories and wastage etc @ 30% of A				1872.00
	Cement sand and grit etc.	LS	5.33	1.73	9.22
	Total				8121.22
B	Labour				
1004	Fitter, Grade 1	day	2.64	673	1776.72
1005	Fitter, Grade 2	day	7.84	612	4798.08
1012	Beldar/ coolie	day	5.28	553	2919.84
	Total				9494.64
	Total of A+B Rs.				17615.86
	Water charges @1%				176.16
	Total				17792.02
	Add 12% GST (MF = 0.1405)				2499.78
	Total				20291.80

C	Overhead & Profit @ 15%	3043.77
	Total	23335.57
	464.52 sqm Cost	23335.57
	Per sqm Cost	50.24
	Say	50.00

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 (Rs.)
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
	GI saddles	each	226.00	0.85	192.10
	Iron screws 45mm x 6 mm	each	452.00	1.00	452.00
	PVC fastener 40 mm long	each	452.00	0.28	126.56
	Cement, sand etc.	L.S.	2.00	4.50	9.00
	Total				10589.66
	Cartage @1% of A				105.90
	Total				10695.56
	Wastage @ 2%				213.91
	Total				10909.47
B	Labour				
1001	Wireman	day	0.75	673	504.75
1007	Khallasi	day	1.50	553	829.50
1010	Mason, Grade 2	day	0.40	612	244.80
	Total				1579.05
	Total of A+B Rs.				12488.52
	Add 12% GST (MF = 0.1405)				1754.64
	Total				14243.15
C	Overhead & Profit @ 15%				2136.47
	Total				16379.63
	Per Meter Cost				327.59
	Say				328.00

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 (Rs.)
A	Materials				
4145	Cost of Fire alarm armoured FRLS cable 2 x 1.5 sqmm	Mtr.50.00	58.20	2910.00	
	GI saddles	each	226.00	0.85	192.10
	Iron screws 45mm x 6 mm	each	452.00	1.00	452.00
	PVC fastener 40 mm long	each	452.00	0.28	126.56
	Cement, sand etc.	L.S.	2.00	4.50	9.00
	Total				3689.66
	Cartage @1% of A				36.90
	Total				3726.56
	Wastage @ 2%				74.53
	Total				3801.09
B	Labour				
1001	Wireman	day	0.75	673	504.75
1007	Khallasi	day	1.50	553	829.50
1010	Mason, Grade 2	day	0.40	612	244.80
	Total				1579.05
	Total of A+B Rs.				5380.14
	Add 12% GST (MF = 0.1405)				755.91
	Total				6136.05
C	Overhead & Profit @ 15%				920.41
	Total				7056.45
	Per Meter Cost				141.13
	Say				141.00

17.5.3 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 (Rs.)
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	673	336.50
1007	Khallasi	day	0.50	553	276.50
	Total				613.00
	Total of A+B Rs.				1932.73
	Add 12% GST (MF = 0.1405)				271.55
	Total				2204.27
C	Overhead & Profit @ 15%				330.64
	Total				2534.92
	Per Meter Cost				50.70
	Say				51.00

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 (Rs.)
A	Materials				
4150	Cost of two pair 2-core 48/0.2 mm for PA System. Mtr.		53.03	49.28	2613.32
	(wastage 5%)				
	Cartage @1% of A				26.13
	Total				2639.45
	Total				2639.45
B	Labour				
1001	Wireman	day	0.50	673	336.50
1007	Khallasi	day	0.50	553	276.50
	Total				613.00
	Total of A+B Rs.				3252.45
	Add 12% GST (MF = 0.1405)				456.97
	Total				3709.42
C	Overhead & Profit @ 15%				556.41
	Total				4265.84
	Per Meter Cost				85.32
	Say				85.00

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 (Rs.)
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	673	336.50
1007	Khallasi	day	0.50	553	276.50
	Total				613.00
	Total of A+B Rs.				4572.18
	Add 12% GST (MF = 0.1405)				642.39
	Total				5214.57
C	Overhead & Profit @ 15%				782.19
	Total				5996.76
	Per Meter Cost				119.94
	Say				120.00

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 (Rs.)
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	673	336.50
1007	Khallasi	day	0.50	553	276.50
	Total				613.00
	Total of A+B Rs.				5891.91
	Add 12% GST (MF = 0.1405)				827.81
	Total				6719.72
C	Overhead & Profit @ 15%				1007.96
	Total				7727.68
	Per Meter Cost				154.55
	Say				155.00

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 (Rs.)
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	673	336.50
1007	Khallasi	day	0.50	553	276.50
	Total				613.00
	Total of A+B Rs.				1900.75
	Add 12% GST (MF = 0.1405)				267.06
	Total				2167.81
C	Overhead & Profit @ 15%				325.17
	Total				2492.98
	Per Meter Cost				49.86
	Say				50.00

APPENDIX-I
BASIC RATES OF LABOUR & HIRE CHARGES

Code No.	DESCRIPTION	Unit	Rate
1001	Wireman	day	673
1002	Cable jointer	day	673
1003	Lineman	day	673
1004	Fitter, Grade 1	day	673
1005	Fitter, Grade 2	day	612
1006	Painter	day	612
1007	Khallasi	day	553
1008	Carpenter, Grade 1	day	673
1009	Blacksmith, Grade 2	day	612
1010	Mason, Grade 2	day	612
1011	Stone Chiseler	day	612
1012	Beldar/ coolie	day	553
1013	Bhisti	day	553
1014	Excavator	day	553
1015	Stone Breaker	day	612
1016	Mate	day	553
1017	Engineer	day	1500
1018	Highly Skilled	day	732
1019	Electrician	day	673
1020	Electronic Technician	day	673
1021	Technician	day	673
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	673

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 MATERIALS

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	9.00
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	14.00
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	22.00
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	32.00
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	57.00
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	89.00
1108	16/0.20 mm (0.5 sqmm) twin core FRLS PVC sheathed, flat flexible copper cable	Metre	9.00
1109	16/0.20 mm (0.5 sqmm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	Metre	8.86
1110	32/0.20 mm (1.0 sqmm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	Metre	7.00
1111	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	Metre	2.00
1112	2 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	Metre	3.00
1113	4 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	Metre	9.00
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	12.32
CONDUIT (STEEL & PVC) AND ACCESSORIES			
1201	20 mm dia. ISI marked, steel conduit	Metre	43.00
1202	25 mm dia. ISI marked, steel conduit	Metre	55.00
1203	32 mm dia. ISI marked, steel conduit	Metre	80.00
1204	40 mm dia. ISI marked, steel conduit	Metre	135.00
1205	50 mm dia. ISI marked, steel conduit	Metre	185.00
1206	20 mm inspection/ solid bends	each	7.20
1207	25 mm inspection/ solid bends	each	12.70
1208	32 mm inspection/ solid bends	each	23.90

Code No.	DESCRIPTION	Unit	Rate
1209	40 mm inspection/ solid bends	each	32.40
1210	50 mm inspection/ solid bends	each	47.40
1211	20 mm sockets	each	5.00
1212	25 mm sockets	each	5.00
1213	32 mm sockets	each	6.00
1214	40 mm sockets	each	9.00
1215	50 mm sockets	each	13.15
1216	20 mm junction box, one way	each	15.00
1217	20 mm junction box, two way	each	15.00
1218	20 mm iron staples/ saddles/ screws	each	1.50
1219	25 mm iron staples/ saddles/ screws	each	2.10
1220	32 mm iron staples/ saddles/ screws	each	3.15
1221	40 mm iron staples/ saddles/ screws	each	4.10
1222	50 mm iron staples/ saddles/ screws	each	5.40
1224	20 mm dia. ISI marked, PVC conduit	Metre	10.44
1225	25 mm dia. ISI marked, PVC conduit	Metre	14.00
1226	32 mm dia. ISI marked, PVC conduit	Metre	12.79
1227	40 mm dia. ISI marked, PVC conduit	Metre	32.12
1228	50 mm dia. ISI marked, PVC conduit	Metre	48.55
1229	20 mm PVC bends	each	4.71
1230	25 mm PVC bends	each	6.40
1231	32 mm PVC bends	each	9.00
1232	40 mm PVC bends	each	14.00
1233	50 mm PVC bends	each	24.00
1234	20 mm PVC couplers	each	3.00
1235	25 mm PVC couplers	each	4.00
1236	32 mm PVC couplers	each	6.00
1237	40 mm PVC couplers	each	7.00
1238	50 mm PVC couplers	each	9.00
1239	20 mm PVC junction box, one way	each	10.00
1240	20 mm PVC junction box, two way	each	11.00
1241	75 mm X 75 mm X 50 mm PVC box	each	18.00
Metal Boxes			
1300	Modular GI box for 2 module	each	22.50
1301	Modular GI box for 3 module	each	30.50
1302	Modular GI box for 4 module	each	37.50

Code No.	DESCRIPTION	Unit	Rate
1303	Modular GI box for 6 module	each	50.50
1304	Modular GI box for 8 module	each	65.50
1305	Modular GI box for 12 module	each	80.50
1306	75 mm X 75 mm X 60 mm deep metal box	each	19.00
1307	100 mm X 100 mm X 60 mm deep metal box	each	29.00
1308	150 mm X 75 mm X 60 mm deep metal box	each	30.90
1309	150 mm X 150 mm X 60 mm deep metal box	each	44.35
1310	180 mm X 100 mm X 60 mm deep metal box	each	37.30
1311	200 mm X 125 mm X 60 mm deep metal box	each	46.50
1312	200 mm X 150 mm X 60 mm deep metal box	each	58.00
1313	200 mm X 250 mm X 60 mm deep metal box	each	75.00
1314	200 mm X 300 mm X 60 mm deep metal box	each	104.00
1315	250 mm X 300 mm X 60 mm deep metal box	each	116.00
1316	200 mm X 150 mm X 75 mm deep metal box	each	63.50
1317	200 mm X 250 mm X 75 mm deep metal box	each	87.50
1318	200 mm X 150 mm X 100 mm deep metal box	each	77.00
1319	200 mm X 250 mm X 100 mm deep metal box	each	98.80
1320	200 mm X 300 mm X 100 mm deep metal box	each	116.00
1321	250 mm X 300 mm X 100 mm deep metal box	each	145.30
WIRING SWITCHES AND ACCESSORIES			
1322	3 mm thick phenolic laminated sheet	sqcm	0.10
1401	Ceiling rose, 3 pin, 5 amps ISI marked	each	12.00
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	28.00
1403	S.P. 5/6 amps, two way modular switch, ISI marked	each	56.50
1404	S.P. 15/16 amps, one way modular switch, ISI marked	each	63.00
1405	3 pin 5/6 amps modular socket outlet, ISI marked	each	59.50
1406	6 pin 15/16 amps modular socket outlet, ISI marked	each	95.50
1407	Modular bell push, ISI marked	each	58.50
1408	Stepped type Modular Fan regulator (2 module)	each	209.50
1409	Telephone Socket outlet modular type	each	53.50
1410	T.V. Socket outlet modular type	each	53.50
1411	Modular blanking plate	each	12.00
1412	6 pin 25 amp modular type socket ISI Marked	Each	106.50
1420	Modular base & cover plate for 1 module	each	37.50
1421	Modular base & cover plate for 2 module	each	37.50
1422	Modular base & cover plate for 3 module	each	48.00

Code No.	DESCRIPTION	Unit	Rate
1423	Modular base & cover plate for 4 module	each	55.50
1424	Modular base & cover plate for 6 module	each	77.50
1425	Modular base & cover plate for 8 module	each	99.50
1426	Modular base & cover plate for 12 module	each	123.00
1431	S.P. 5/6 amps, one way switch, piano type ISI marked	each	10.00
1432	S.P. 5/6 amps, two way switch, piano type ISI marked	each	16.80
1433	S.P. 15/16 amps, one way switch, piano type ISI marked	each	46.80
1434	3 pin 5/6 amps socket outlet, piano type ISI marked	each	19.20
1435	6 pin 15/16 & 5/6 amps socket outlet, piano type ISI marked	each	60.00
1436	Bell push, piano type	each	12.00
1437	Telephone Socket outlet piano type	each	20.00
1438	T.V. Socket outlet piano type	each	21.00
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	4532.00
1447	Microwave occupancy Sensor	each	6261.00
1448	Astronomical time switch suitable for 1 output per phase and suitable for single phase supply	each	2518.00
1449	Astronomical time switch suitable for 2 output per phase and suitable for single phase supply	each	5445.00
1450	Astronomical time switch suitable for 3 output (1 output per phase) and suitable for three phase supply	each	6424.00
1451	UTP 4 Pair CAT 6 LAN Cable	Metre	24.00
1452	PVC Batten/ Angle Holder	each	18.00
RISING MAINS BUS TRUNKING AND OVER HEAD BUS-BAR			
1501	200 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	4213.64
1502	300 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	4405.17
1503	400 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	5458.57
1504	600 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	6128.92

Code No.	DESCRIPTION	Unit	Rate
1505	800 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	7421.75
1511	16 amps. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	7524.35
1512	16 amps. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	16964.00
1513	16 amps. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	24078.00
1514	16 amps. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	33381.00
1515	32 amps. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	9303.00
1516	32 amps. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	19153.00
1517	32 amps. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	25172.00
1518	32 amps. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	35022.00
1519	63 amps. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	10616.00
1520	63 amps. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	18058.00
1521	63 amps. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	19481.00
1522	63 amps. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	33600.00
1526	200 amps. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	15103.00
1527	300 amps. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	16417.00
1528	400 amps. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	18058.00

Code No.	DESCRIPTION	Unit	Rate
1529	600 amps. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	19481.00
1530	800 amps. TPN, adaptor box with cable end box, with TPN disconnecter FSU, ISI marked HRC fuses and brass compression gland for rising mains	each	21670.00
1531	800 amps. TPN, bus trunking with aluminium busbars	Metre	8482.00
1532	1000 amps. TPN, bus trunking with aluminium busbars	Metre	10069.00
1533	1250 amps. TPN, bus trunking with aluminium busbars	Metre	12915.00
1534	1400 amps. TPN, bus trunking with aluminium busbars	Metre	16198.00
1535	1600 amps. TPN, bus trunking with aluminium busbars	Metre	16198.00
1536	200 amps. TPN, overhead busbars with aluminium busbars	Metre	4816.00
1537	400 amps. TPN, overhead busbars with aluminium busbars	Metre	6238.00
1538	32 amps. TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	5441.00
1539	63 amps. TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	6098.00
1540	100 amps. TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	7036.00
1541	16 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	6019.00
1542	32 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	6348.00
1543	63 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	7114.00
1544	100 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	8208.00
1545	200 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	12915.00
1546	315 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	13681.00
1547	400 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	14228.00
1551	200 amps. TPN, compact type rising mains with aluminium busbar including all accessories	Metre	5289.00
1552	315 amps. TPN, compact type rising mains with aluminium busbar including all accessories	Metre	5727.00

Code No.	DESCRIPTION	Unit	Rate
1553	400 amps. TPN, compact type rising mains with aluminium busbar including all accessories	Metre	6365.00
1554	500 amps. TPN, compact type rising mains with aluminium busbar including all accessories	Metre	7327.00
1555	630 amps. TPN, compact type rising mains with aluminium busbar including all accessories	Metre	8763.00
1556	800 amps. TPN, compact type rising mains with aluminium busbar including all accessories	Metre	12162.00
1557	1000 amps. TPN, compact type rising mains with aluminium busbar including all accessories	Metre	14124.00
1558	1250 amps. TPN, compact type rising mains with aluminium busbar including all accessories	Metre	16842.00
1559	200 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	5376.00
1560	315 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	5741.00
1561	400 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	6379.00
1562	500 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	7381.00
1563	630 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	8748.00
1564	800 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	11391.00
1565	1000 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	13213.00
1566	1250 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	Metre	15491.00

Code No.	DESCRIPTION	Unit	Rate
1567	200 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	4040.00
1568	315 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	4210.00
1569	400 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	5358.00
1570	500 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	5613.00
1571	630 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	6847.00
1572	800 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	8110.00
1573	1000 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	9100.00
1574	1250 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	9611.00
1575	125 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	4678.00
1576	200 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	5954.00
1577	315 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	7655.00
1578	400 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	7655.00
1579	500 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	11057.00
1580	630 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	11056.00
Sandwich Rising Mains with Aluminium bus bar			
1581	400 amps 25KA Isc for 1 sec	Metre	8611.00
1582	500 amps 30KA Isc for 1 sec	Metre	9226.00
1583	630 amps 50KA Isc for 1 sec	Metre	9978.00
1584	800 amps 50KA Isc for 1 sec	Metre	11277.00
1585	1000 amps 50KA Isc for 1 sec	Metre	12651.00
1586	1250 amps 50KA Isc for 1 sec	Metre	14147.00
1587	1600 amps 50KA Isc for 1 sec	Metre	17223.00

Code No.	DESCRIPTION	Unit	Rate
1588	2000 amps 50KA Isc for 1 sec	Metre	20503.00
1589	2500 amps 50KA Isc for 1 sec	Metre	26476.00
1590	3200 amps 50KA Isc for 1 sec	Metre	29251.00
1591	4000 amps 50KA Isc for 1 sec	Metre	51027.00
SWITCH DISCONNECTOR SFU AND MCCB			
1601	32 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1421.00
1602	63 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	2005.00
1603	100 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	4346.00
1604	125 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	4829.00
1605	160 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	5779.00
1606	200 amps. TPN switch fuse unit with ISI marked HRC fuses	each	6624.00
1607	315 amps. TPN switch fuse unit with ISI marked HRC fuses	each	10647.00
1608	400 amps. 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	2936.00
1612	3 pole MCCB, 150A, 16KA	each	3346.00
1613	3 pole MCCB, 200A, 16KA	each	5541.00
1614	3 pole MCCB, 200A, 25KA	each	8051.00
1615	3 pole MCCB, 250A, 25KA	each	9522.00
1616	3 pole MCCB, 250A, 35KA	each	8180.00
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	18511.00
1620	3 pole MCCB, 630A, 50KA	each	20650.00
1621	3 pole MCCB, 800A, 50KA	each	25243.00
1622	4 pole MCCB, 100A, 30KA	each	5400.00
1623	4 pole MCCB, 125A, 36KA	each	5472.00
1624	4 pole MCCB, 200A, 36KA	each	11243.00
1625	4 pole MCCB, 250A, 36KA	each	12821.00
1626	4 pole MCCB, 250A, 50KA	each	11066.00
1627	4 pole MCCB, 400A, 50KA	each	19535.00

Code No.	DESCRIPTION	Unit	Rate
1628	4 pole MCCB, 630A, 50KA	each	24309.00
MCBs, ISOLATORS, RCCBs AND MCB DBs			
1705	25 amp modular SPMCB, 'C' curve	each	161.00
1706	6 amps. to 32 amps. ratings , SP MCB, "C" curve, 10 KA breaking capacity	each	102.00
1707	6 amps. to 32 amps. ratings , SPN MCB, "C" curve, 10 KA breaking capacity	each	362.40
1708	6 amps. to 32 amps. ratings , DP MCB, "C" curve, 10 KA breaking capacity	each	371.00
1709	6 amps. to 32 amps. ratings , TP MCB, "C" curve, 10 KA breaking capacity	each	575.00
1710	6 amps. to 32 amps. ratings , TPN MCB, "C" curve, 10 KA breaking capacity	each	776.00
1711	Single pole, blanking plate	each	5.00
1712	40 amps., 2 pole isolator	each	207.00
1713	63 amps., 2 pole isolator	each	242.00
1714	40 amps., 4 pole isolator	each	531.00
1715	63 amps., 4 pole isolator	each	536.00
1716	100 amps., 4 pole isolator	each	693.00
1717	25 amps. rating, 2 pole RCCB, 30mA	each	1394.00
1718	40 amps. rating, 2 pole RCCB, 30mA	each	1521.00
1719	63 amps. rating, 2 pole RCCB, 30mA	each	1932.00
1720	25 amps. rating, 4 pole RCCB, 30mA	each	1810.00
1721	40 amps. rating, 4 pole RCCB, 30mA	each	1885.00
1722	63 amps. rating, 4 pole RCCB, 30mA	each	1999.00
1723	16/25 amps. rating, 2 pole RCBO 100mA/ 300mA sensitivity	each	Deleted
1724	32 amps. rating, 2 pole RCBO 100mA/ 300mA sensitivity	each	Deleted
1725	40 amps. rating, 2 pole RCBO 100mA/ 300mA sensitivity	each	Deleted
1726	16/25 amps. rating, 4 pole RCBO 100mA/ 300mA sensitivity	each	Deleted
1727	32 amps. rating, 4 pole RCBO 100mA/ 300mA sensitivity	each	Deleted
1728	40 amps. rating, 4 pole RCBO 100mA/ 300mA sensitivity	each	Deleted
1730	20 amps. SPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	490.00
1731	20 amps. TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	490.00

Code No.	DESCRIPTION	Unit	Rate
1732	30 amps. TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1515.00
1734	2+2 way, SPN, single door, MCB DB	each	634.00
1735	2+4 way, SPN, single door, MCB DB	each	689.00
1736	2+6 way, SPN, single door, MCB DB	each	790.00
1737	2+10 way, SPN, single door, MCB DB	each	936.00
1738	6 way, SPN, double door, MCB DB	each	991.00
1739	8 way, SPN, double door, MCB DB	each	1066.00
1740	12 way, SPN, double door, MCB DB	each	1287.00
1741	14 way, SPN, double door, MCB DB	each	1589.00
1742	Sheet steel DP MCB enclosure	each	148.00
1743	Sheet steel TP MCB enclosure	each	169.00
1751	4 way (4+12), TPN, MCB DB, single door, horizontal type	each	Deleted
1752	6 way (4+18), TPN, MCB DB, single door, horizontal type	each	Deleted
1753	8 way (4+24), TPN, MCB DB, single door, horizontal type	each	Deleted
1754	4 way (4+12), TPN, MCB DB, double door, horizontal type	each	2005.00
1755	6 way (4+18), TPN, MCB DB, double door, horizontal type	each	2477.00
1756	8 way (4+24), TPN, MCB DB, double door, horizontal type	each	3162.00
1757	4 way (4+12), TPN, vertical type, MCB DB, single door	each	Deleted
1758	8 way (4+24), TPN, vertical type, MCB DB, single door	each	Deleted
1759	12 way (4+36), TPN, vertical type, MCB DB, single door	each	Deleted
1760	4 way (4+12), TPN, vertical type, MCB DB, double door	each	3955.00
1761	8 way (4+24), TPN, vertical type, MCB DB, double door	each	5535.00
1762	12 way (4+36), TPN, vertical type, MCB DB, double door	each	7108.00
1763	4 way, TPN, vertical type, single door, MCB DB with provision to mount MCCB as incomer	each	Deleted
1764	8 way, TPN, vertical type, single door, MCB DB with provision to mount MCCB as incomer	each	Deleted
1765	12 way, TPN, vertical type, single door, MCB DB with provision to mount MCCB as incomer	each	Deleted
1771	2 + 4 way, SPN, prewired MCB DB with extended loose wire box, single door	each	Deleted
1772	2 + 8 way, SPN, prewired MCB DB with extended loose wire box, single door	each	Deleted
1773	2 + 12 way, SPN, prewired MCB DB with extended loose wire box, single door	each	Deleted

Code No.	DESCRIPTION	Unit	Rate
1774	2 + 4 way, SPN, prewired MCB DB with extended loose wire box, double door	each	Deleted
1775	2 + 8 way, SPN, prewired MCB DB with extended loose wire box, double door	each	Deleted
1776	2 + 12 way, SPN, prewired MCB DB with extended loose wire box, double door	each	Deleted
1779	4 way, (4+12) TPN, prewired MCB DB with extended loose wire box, single door	each	Deleted
1780	6 way, (4+18) TPN, prewired MCB DB with extended loose wire box, single door	each	Deleted
1781	8 way, (4+24) TPN, prewired MCB DB with extended loose wire box, single door	each	Deleted
1782	12 way, (4+36) TPN, prewired MCB DB with extended loose wire box, single door	each	Deleted
1783	4 way, (4+12) TPN, prewired MCB DB with extended loose wire box, double door	each	Deleted
1784	6 way, (4+18) TPN, prewired MCB DB with extended loose wire box, double door	each	Deleted
1785	8 way, (4+24) TPN, prewired MCB DB with extended loose wire box, double door	each	Deleted
1786	12 way, (4+36) TPN, prewired MCB DB with extended loose wire box, double door	each	Deleted
1787	4 way (4+4), TPN, vertical type, prewired, MCB DB with extended loose wire box, single door	each	Deleted
1788	6 way (4+6), TPN, vertical type, prewired, MCB DB with extended loose wire box, single door	each	Deleted
1789	8 way (4+8), TPN, vertical type, prewired, MCB DB with extended loose wire box, single door	each	Deleted
1790	12 way (4+12), TPN, vertical type, prewired, MCB DB with extended loose wire box, single door	each	Deleted
1791	4 way (4+4), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	each	Deleted
1792	6 way (4+6), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	each	Deleted
1793	8 way (4+8), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	each	Deleted

Code No.	DESCRIPTION	Unit	Rate
1794	12 way (4+12), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	each	Deleted
Cable End Box			
1801	Cable End Boxes for 6 Way SPN DD DB	each	314.29
1802	Cable End Boxes for 8 Way SPN DD DB	each	391.74
1803	Cable End Boxes for 10 Way SPN DD DB	each	403.00
1804	Cable End Boxes for 14 Way SPN DD DB	each	492.00
1805	Cable End Boxes for 4 Way TPN DD DB	each	522.32
1806	Cable End Boxes for 6 Way TPN DD DB	each	641.29
1807	Cable End Boxes for 8 Way TPN DD DB	each	774.78
1808	Cable End Boxes for Vertical TPN DD DB	each	416.00
BRASS COMPRESSION GLANDS			
2101	Brass compression gland (19 mm) for 2 X 6 sq. mm 1.1 KV grade cable	set	26.00
2102	Brass compression gland (19 mm) for 2 X 10 sq. mm 1.1 KV grade cable	set	26.00
2103	Brass compression gland for (22 mm) 2 X 16 sq. mm 1.1 KV grade cable	set	35.00
2104	Brass compression gland for (22 mm) 2 X 25 sq. mm 1.1 KV grade cable	set	35.00
2105	Brass compression gland for (25 mm) 2 X 35 sq. mm 1.1 KV grade cable	set	40.00
2106	Brass compression gland for (28 mm) 2 X 50 sq. mm 1.1 KV grade cable	set	59.00
2107	Brass compression gland for (22 mm) 3 X 10 sq. mm 1.1 KV grade cable	set	35.00
2108	Brass compression gland for (25 mm) 3 X 16 sq. mm 1.1 KV grade cable	set	40.00
2109	Brass compression gland for (25 mm) 3 X 25 sq. mm 1.1 KV grade cable	set	40.00
2110	Brass compression gland for (28 mm) 3 X 35 sq. mm 1.1 KV grade cable	set	59.00
2111	Brass compression gland for (32 mm) 3 X 50 sq. mm 1.1 KV grade cable	set	70.00
2112	Brass compression gland for (35 mm) 3 X 70 sq. mm 1.1 KV grade cable	set	89.00

Code No.	DESCRIPTION	Unit	Rate
2113	Brass compression gland for (38 mm) 3 X 95 sq. mm 1.1 KV grade cable	set	108.00
2114	Brass compression gland for (45 mm) 3 X 120 sq. mm 1.1 KV grade cable	set	135.00
2115	Brass compression gland for (50 mm) 3 X 150 sq. mm 1.1 KV grade cable	set	172.00
2116	Brass compression gland for (57 mm) 3 X 185 sq. mm 1.1 KV grade cable	set	222.00
2117	Brass compression gland for (62 mm) 3 X 225 sq. mm 1.1 KV grade cable	set	264.00
2118	Brass compression gland for (62 mm) 3 X 240 sq. mm 1.1 KV grade cable	set	264.00
2119	Brass compression gland for (70 mm) 3 X 300 sq. mm 1.1 KV grade cable	set	314.00
2120	Brass compression gland for (28 mm) 3½ X 25 sq. mm 1.1 KV grade cable	set	59.00
2121	Brass compression gland for (32 mm) 3½ X 35 sq. mm 1.1 KV grade cable	set	70.00
2122	Brass compression gland for (35 mm) 3½ X 50 sq. mm 1.1 KV grade cable	set	89.00
2123	Brass compression gland for (38 mm) 3½ X 70 sq. mm 1.1 KV grade cable	set	108.00
2124	Brass compression gland for (45 mm) 3½ X 95 sq. mm 1.1 KV grade cable	set	135.00
2125	Brass compression gland for (45 mm) 3½ X 120 sq. mm 1.1 KV grade cable	set	135.00
2126	Brass compression gland for (50 mm) 3½ X 150 sq. mm 1.1 KV grade cable	set	172.00
2127	Brass compression gland for (57 mm) 3½ X 185 sq. mm 1.1 KV grade cable	set	222.00
2128	Brass compression gland for (62 mm) 3½ X 225 sq. mm 1.1 KV grade cable	set	264.00
2129	Brass compression gland for (62 mm) 3½ X 240 sq. mm 1.1 KV grade cable	set	264.00
2130	Brass compression gland for (70 mm) 3½ X 300 sq. mm 1.1 KV grade cable	set	314.00

Code No.	DESCRIPTION	Unit	Rate
2131	Brass compression gland for (82 mm) 3½ X 400 sq. mm 1.1 KV grade cable	set	448.00
2132	Brass compression gland for (25 mm) 4 X 10 sq. mm 1.1 KV grade cable	set	40.00
2133	Brass compression gland for (28 mm) 4 X 16 sq. mm 1.1 KV grade cable	set	59.00
2134	Brass compression gland for (28 mm) 4 X 25 sq. mm 1.1 KV grade cable	set	59.00
2135	Brass compression gland for (32 mm) 4 X 35 sq. mm 1.1 KV grade cable	set	70.00
2136	Brass compression gland for (35 mm) 4 X 50 sq. mm 1.1 KV grade cable	set	89.00
ALUMINIUM LUGS			
2201	Aluminium lugs for 6 sq. mm cable	each	1.00
2202	Aluminium lugs for 10 sq. mm cable	each	1.00
2203	Aluminium lugs for 16 sq. mm cable	each	2.00
2204	Aluminium lugs for 25 sq. mm cable	each	2.00
2205	Aluminium lugs for 35 sq. mm cable	each	3.00
2206	Aluminium lugs for 50 sq. mm cable	each	4.00
2207	Aluminium lugs for 70 sq. mm cable	each	7.00
2208	Aluminium lugs for 95 sq. mm cable	each	8.00
2209	Aluminium lugs for 120 sq. mm cable	each	11.00
2210	Aluminium lugs for 150 sq. mm cable	each	15.00
2211	Aluminium lugs for 185 sq. mm cable	each	19.00
2212	Aluminium lugs for 225 sq. mm cable	each	27.00
2213	Aluminium lugs for 240 sq. mm cable	each	31.00
2214	Aluminium lugs for 300 sq. mm cable	each	45.00
2215	Aluminium lugs for 400 sq. mm cable	each	65.00
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

Code No.	DESCRIPTION	Unit	Rate
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
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

Code No.	DESCRIPTION	Unit	Rate
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
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

Code No.	DESCRIPTION	Unit	Rate
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	1025.00
2365	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 25 sq. mm 1.1 KV grade cable	set	1025.00
2366	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 35 sq. mm 1.1 KV grade cable	set	1025.00
2367	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 50 sq. mm 1.1 KV grade cable	set	1197.00
2368	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 16 sq. mm 1.1 KV grade cable	set	1025.00
2369	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 25 sq. mm 1.1 KV grade cable	set	1025.00
2370	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 35 sq. mm 1.1 KV grade cable	set	1197.00
2371	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 50 sq. mm 1.1 KV grade cable	set	1197.00
2372	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 70 sq. mm 1.1 KV grade cable	set	1431.00
2373	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 95 sq. mm 1.1 KV grade cable	set	1470.00
2374	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 120 sq. mm 1.1 KV grade cable	set	1682.00

Code No.	DESCRIPTION	Unit	Rate
2375	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 150 sq. mm 1.1 KV grade cable	set	1682.00
2376	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 185 sq. mm 1.1 KV grade cable	set	2049.00
2377	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 225 sq. mm 1.1 KV grade cable	set	2354.00
2378	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 240 sq. mm 1.1 KV grade cable	set	2401.00
2379	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 300 sq. mm 1.1 KV grade cable	set	2963.00
2380	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 25 sq. mm 1.1 KV grade cable	set	1197.00
2381	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 35 sq. mm 1.1 KV grade cable	set	1197.00
2382	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 50 sq. mm 1.1 KV grade cable	set	1431.00
2383	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 70 sq. mm 1.1 KV grade cable	set	1470.00
2384	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 95 sq. mm 1.1 KV grade cable	set	1470.00
2385	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 120 sq. mm 1.1 KV grade cable	set	2049.00
2386	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 150 sq. mm 1.1 KV grade cable	set	2049.00
2387	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 185 sq. mm 1.1 KV grade cable	set	2380.00
2388	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 225 sq. mm 1.1 KV grade cable	set	2401.00
2389	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 240 sq. mm 1.1 KV grade cable	set	2963.00
2390	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 300 sq. mm 1.1 KV grade cable	set	3550.00
2391	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 400 sq. mm 1.1 KV grade cable	set	4378.00
2392	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 16 sq. mm 1.1 KV grade cable	set	1025.00

Code No.	DESCRIPTION	Unit	Rate
2393	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 25 sq. mm 1.1 KV grade cable	set	1197.00
2394	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 35 sq. mm 1.1 KV grade cable	set	1197.00
2395	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 50 sq. mm 1.1 KV grade cable	set	1431.00
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.	set	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

Code No.	DESCRIPTION	Unit	Rate
2437	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	5783.00
2438	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	5783.00
2439	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	7604.00
2440	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	7604.00
2441	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	10353.00
2442	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	10353.00
2443	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	11745.00
2444	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	11745.00
2445	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	11710.00
2446	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	12681.00
2447	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	13366.00
2448	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	13366.00
2528	Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 70 sq. mm.	set	13637.00
2529	Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 120 sq. mm.	set	18643.00
2530	Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 240 sq. mm.	set	20085.00
2531	Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 70 sq. mm.	set	20677.00

Code No.	DESCRIPTION	Unit	Rate
2532	Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 120 sq. mm.	set	24833.00
2533	Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 240 sq. mm.	set	27946.00
2534	Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 70 sq. mm.	set	32844.00
2535	Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 120 sq. mm.	set	41548.00
2536	Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 240 sq. mm.	set	58191.00
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
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	22.00
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 X 110 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	27.36
2610	Pin insulator (100 mm X 80 mm) with G.I. spindle and nuts	set	28.80
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 amps aerial fuse complete with porcelain tube as required	each	13.00
2616	30 amps 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

Code No.	DESCRIPTION	Unit	Rate
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 clamps, 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 clamps, 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. clamps bolts and nuts with washers	set	1620.00
2651	Single piece lightning arrestor set for 33 KV O.H. lines complete with G.I. clamps bolts and nuts with washers	set	12600.00
2665	G.I. strap for shackle insulator	set	43.20
CABLE TRAYS PRE PAINTED WITH POWDER COATING			
2701	MS perforated cable tray painted with powder coating 100 X 50 X 1.6 mm	Metre	144.00
2702	MS perforated cable tray painted with powder coating 150 X 50 X 1.6 mm	Metre	180.00
2703	MS perforated cable tray painted with powder coating 225 X 50 X 1.6 mm	Metre	226.00
2704	MS perforated cable tray painted with powder coating 300 X 50 X 1.6 mm	Metre	241.15
2705	MS perforated cable tray painted with powder coating 375 X 50 X 2 mm	Metre	257.75
2706	MS perforated cable tray painted with powder coating 450 X 50 X 2 mm	Metre	274.30
2707	MS perforated cable tray painted with powder coating 600 X 50 X 2 mm	Metre	310.70
2708	MS perforated cable tray painted with powder coating 300 X 62.5 X 2 mm	Metre	221.65
2709	MS perforated cable tray painted with powder coating 375 X 62.5 X 2 mm	Metre	260.15
2710	MS perforated cable tray painted with powder coating 450 X 62.5 X 2 mm	Metre	299.20
2711	MS perforated cable tray painted with powder coating 600 X 62.5 X 2 mm	Metre	377.85

Code No.	DESCRIPTION	Unit	Rate
2712	MS perforated cable tray painted with powder coating 750 X 62.5 X 2 mm	Metre	468.05
2713	MS perforated cable tray painted with powder coating 900 X 62.5 X 2 mm	Metre	547.25
2714	MS perforated cable tray painted with powder coating 600 X 75 X 2 mm	Metre	442.00
2715	MS perforated cable tray painted with powder coating 750 X 75 X 2 mm	Metre	490.10
2716	MS perforated cable tray painted with powder coating 900 X 75 X 2 mm	Metre	533.00
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
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	397.00
2734	MS perforated cable tray Bend 150 X 50 X 1.6 mm	each	491.00
2735	MS perforated cable tray Bend 225 X 50 X 1.6 mm	each	636.00
2736	MS perforated cable tray Bend 300 X 50 X 1.6 mm	each	781.00
2737	MS perforated cable tray Bend 375 X 50 X 2 mm	each	1128.00
2738	MS perforated cable tray Bend 450 X 50 X 2 mm	each	1304.00
2739	MS perforated cable tray Bend 600 X 50 X 2 mm	each	1657.00
2740	MS perforated cable tray Bend 300 X 62.5 X 2 mm	each	1008.00
2741	MS perforated cable tray Bend 375 X 62.5 X 2 mm	each	1184.00
2742	MS perforated cable tray Bend 450 X 62.5 X 2 mm	each	1361.00
2743	MS perforated cable tray Bend 600 X 62.5 X 2 mm	each	1720.00
2744	MS perforated cable tray Bend 750 X 62.5 X 2 mm	each	2129.00
2745	MS perforated cable tray Bend 900 X 62.5 X 2 mm	each	2489.00
2746	MS perforated cable tray Bend 600 X 75 X 2 mm	each	1770.00

Code No.	DESCRIPTION	Unit	Rate
2747	MS perforated cable tray Bend 750 X 75 X 2 mm	each	2192.00
2748	MS perforated cable tray Bend 900 X 75 X 2 mm	each	2552.00
2749	MS perforated cable tray Reducer 100 X 50 X 1.6 mm	each	451.00
2750	MS perforated cable tray Reducer 150 X 50 X 1.6 mm	each	549.00
2751	MS perforated cable tray Reducer 225 X 50 X 1.6 mm	each	727.00
2752	MS perforated cable tray Reducer 300 X 50 X 1.6 mm	each	902.00
2753	MS perforated cable tray Reducer 375 X 50 X 2 mm	each	1148.00
2754	MS perforated cable tray Reducer 450 X 50 X 2 mm	each	1342.00
2755	MS perforated cable tray Reducer 600 X 50 X 2 mm	each	1671.00
2756	MS perforated cable tray Reducer 300 X 62.5 X 2 mm	each	1028.00
2757	MS perforated cable tray Reducer 375 X 62.5 X 2 mm	each	1210.00
2758	MS perforated cable tray Reducer 450 X 62.5 X 2 mm	each	1393.00
2759	MS perforated cable tray Reducer 600 X 62.5 X 2 mm	each	1762.00
2760	MS perforated cable tray Reducer 750 X 62.5 X 2 mm	each	2093.00
2761	MS perforated cable tray Reducer 900 X 62.5 X 2 mm	each	2498.00
2762	MS perforated cable tray Reducer 600 X 75 X 2 mm	each	1822.00
2763	MS perforated cable tray Reducer 750 X 75 X 2 mm	each	2145.00
2764	MS perforated cable tray Reducer 900 X 75 X 2 mm	each	2558.00
2765	MS perforated cable tray Tee 100 X 50 X 1.6 mm	each	473.00
2766	MS perforated cable tray Tee 150 X 50 X 1.6 mm	each	586.00
2767	MS perforated cable tray Tee 225 X 50 X 1.6 mm	each	762.00
2768	MS perforated cable tray Tee 300 X 50 X 1.6 mm	each	939.00
2769	MS perforated cable tray Tee 375 X 50 X 2 mm	each	1348.00
2770	MS perforated cable tray Tee 450 X 50 X 2 mm	each	1562.00
2771	MS perforated cable tray Tee 600 X 50 X 2 mm	each	1985.00
2772	MS perforated cable tray Tee 300 X 62.5 X 2 mm	each	1210.00
2773	MS perforated cable tray Tee 375 X 62.5 X 2 mm	each	1418.00
2774	MS perforated cable tray Tee 450 X 62.5 X 2 mm	each	1632.00
2775	MS perforated cable tray Tee 600 X 62.5 X 2 mm	each	2061.00
2776	MS perforated cable tray Tee 750 X 62.5 X 2 mm	each	2552.00
2777	MS perforated cable tray Tee 900 X 62.5 X 2 mm	each	2986.00
2778	MS perforated cable tray Tee 600 X 75 X 2 mm	each	2129.00
2779	MS perforated cable tray Tee 750 X 75 X 2 mm	each	2596.00
2780	MS perforated cable tray Tee 900 X 75 X 2 mm	each	3057.00
2781	MS perforated cable tray Cross member 100 X 50 X 1.6 mm	each	473.00
2782	MS perforated cable tray Cross member 150 X 50 X 1.6 mm	each	586.00
2783	MS perforated cable tray Cross member 225 X 50 X 1.6 mm	each	762.00

Code No.	DESCRIPTION	Unit	Rate
2784	MS perforated cable tray Cross member 300 X 50 X 1.6 mm	each	939.00
2785	MS perforated cable tray Cross member 375 X 50 X 2 mm	each	1348.00
2786	MS perforated cable tray Cross member 450 X 50 X 2 mm	each	1562.00
2787	MS perforated cable tray Cross member 600 X 50 X 2 mm	each	1985.00
2788	MS perforated cable tray Cross member 300 X 62.5 X 2 mm	each	1210.00
2789	MS perforated cable tray Cross member 375 X 62.5 X 2 mm	each	1418.00
2790	MS perforated cable tray Cross member 450 X 62.5 X 2 mm	each	1632.00
2791	MS perforated cable tray Cross member 600 X 62.5 X 2 mm	each	2060.00
2792	MS perforated cable tray Cross member 750 X 62.5 X 2 mm	each	2552.00
2793	MS perforated cable tray Cross member 900 X 62.5 X 2 mm	each	2986.00
2794	MS perforated cable tray Cross member 600 X 75 X 2 mm	each	2129.00
2795	MS perforated cable tray Cross member 750 X 75 X 2 mm	each	2596.00
2796	MS perforated cable tray Cross member 900 X 75 X 2 mm	each	3057.00
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	33.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	33.00
2806	35 mm X 35 mm X 5 mm angle iron	kg	33.00
2807	50 mm X 50 mm X 6 mm angle iron	kg	33.00
2808	65 mm X 65 mm X 6 mm angle iron	kg	33.00
2809	20/25 mm X 3 mm flat iron	kg	33.00
2810	25 mm X 4 mm flat iron	kg	33.00
2811	25 mm X 6 mm flat iron	kg	33.00
2812	40 mm X 3 mm flat iron	kg	33.00
2813	50 mm X 6 mm flat iron	kg	33.00
2814	50 mm X 8 mm flat iron	kg	33.00
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr)	kg	33.00
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)	kg	33.00
2817	1.6 mm thick M.S. sheet	kg	48.00
2818	3 mm thick M.S. sheet	kg	48.00
GI AND RCC PIPE			
2819	20 mm dia G.I. Pipe (light class)	Metre	97.00
2820	32 mm dia G.I. Pipe (light class)	Metre	175.00

Code No.	DESCRIPTION	Unit	Rate
2821	50 mm dia G.I. Pipe (light class)	Metre	275.00
2822	80 mm dia G.I. Pipe (light class)	Metre	437.00
2823	100 mm dia G.I. Pipe (light class)	Metre	611.00
2824	15 mm dia. G.I. pipe (medium class)	Metre	88.00
2825	20 mm dia. G.I. pipe (medium class)	Metre	111.00
2826	40 mm dia. G.I. pipe (medium class)	Metre	239.00
2827	15 mm dia. G.I. pipe (heavy class)	Metre	101.00
2828	20 mm dia. G.I. pipe (heavy class)	Metre	130.00
2829	Check nut 20mm	each	5.00
2831	32 mm dia. G.I. pipe (medium class)	Metre	206.00
2832	50 mm dia. G.I. pipe (medium class)	Metre	318.00
2833	80 mm dia. G.I. pipe (medium class)	Metre	520.00
2834	100 mm dia. G.I. pipe (medium class)	Metre	754.00
2835	150 mm dia. G.I. pipe (medium class)	Metre	1187.00
2836	40 mm to 20 mm reducer	each	33.00
2837	Nipple 50 mm dia	each	60.00
2838	40 mm dia. G.I. bend (medium class)	each	57.00
2839	50 mm dia. G.I. bend (medium class)	each	99.00
2841	100 mm dia RCC pipe NP2 class	Metre	156.00
2842	150 mm dia RCC pipe NP2 class	Metre	178.00
2843	250 mm dia RCC pipe NP2 class	Metre	217.00
2844	300 mm dia RCC pipe NP2 class	Metre	301.00
2845	100 mm dia RCC collar NP2 class	each	23.00
2846	150 mm dia RCC collar NP2 class	each	30.00
2847	250 mm dia RCC collar NP2 class	each	46.00
2848	300 mm dia RCC collar NP2 class	each	56.00
SCREWS, NUT BOTS AND OTHER ACCESSORIES			
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	0.50
2852	Iron screws, 35 mm X 6 mm	each	1.00
2853	Iron screws, 40 mm X 6 mm	each	1.00
2854	Iron screws, 45 mm X 6 mm	each	1.10
2855	Steel fastener 6 mm X 75 mm	each	5.50
2856	Steel fastener 8 mm X 75 mm	each	7.30
2857	PVC fastener 40mm long	each	0.30
2858	PVC clip for fixing cable	each	0.15
2859	Rubber/ PVC bushes	each	0.50

Code No.	DESCRIPTION	Unit	Rate
2860	6 mm dia rivet/ stud/ bolts and nuts	each	3.25
2861	25mm X 3mm bolts & nuts	each	2.20
2862	32mm X 8mm bolts & nuts	each	4.30
2863	38mm X 10mm bolts & nuts	each	7.25
2864	38 mm X 7 mm, bolts and nuts	each	5.15
2865	15 mm long X 6 mm dia G.I. bolts and nuts	each	4.20
2866	10 mm X 25 mm long G.I. bolt with nut etc	each	9.30
2867	16 mm X 50 mm bolts and nuts with washers	set	6.25
2868	16 mm X 40 mm bolts and nuts with washers	set	6.30
2869	16 mm X 125 mm bolts and nuts with washers	set	20.65
2870	16 mm X 150 mm bolts and nuts with washers	set	24.30
2871	10 mm X 25 mm long tinned brass bolt with nut etc.	each	28.00
2881	GI saddles 19mm x 0.55mm for conduit	each	1.00
2882	GI saddles 25mm x 0.90mm for conduit above 25mm	each	1.00
HDPE Pipe			
2891	63 mm dia	Mtr	67.00
2892	90 mm dia	Mtr	96.00
2893	120 mm dia	Mtr	156.00
2894	180 mm dia	Mtr	234.00
2895	200 mm dia	Mtr	334.00
HDPE Pipe Coupler			
2896	63 mm dia	each	16.00
2897	90 mm dia	each	25.00
2898	120 mm dia	each	30.00
2899	160 mm dia	each	60.00
2900	200 mm dia	each	80.00
2901	20 mm X 3 mm copper tape (0.533 kg/mtr)	kg	538.00
2902	25 mm X 5 mm copper tape (1.15 kg/mtr)	kg	538.00
2903	32 mm X 6 mm copper tape (1.705 kg/mtr)	kg	538.00
2904	8 SWG copper wire (4.0 mm dia)	kg	540.00
2905	600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)	each	5649.00
2906	Copper saddle	each	30.00
2907	50 mm X 5mm copper strip (2.30 kg/mtr)	kg	538.00
2908	Brass nipple	each	8.00
2909	Lightning finial, 25 mm dia X 300 mm long, copper	each	465.00

Code No.	DESCRIPTION	Unit	Rate
2910	Lightning finial, 25 mm dia X 300 mm long, G.I.	each	127.00
2911	20 mm X 3 mm G.I. Tape (0.461 kg/mtr)	kg	61.00
2912	25 mm X 5 mm G.I. strip (1.0 kg/mtr)	kg	57.00
2913	25 mm X 6 mm G.I. strip (1.2 kg/mtr)	kg	55.00
2914	32 mm X 6 mm G.I. Tape (1.475 kg/mtr)	kg	55.00
2915	600 mm X 600 mm X 6 mm thick G.I. plate	each	1438.00
2916	6 SWG G.I. wire	kg	61.00
2917	GI saddle 20mm x 3mm	each	2.50
2918	Funnel	each	19.00
2919	G.I. nuts and through bolts with washer	each	26.00
2920	Washers	each	0.00
2921	G.I. Hooks made of 8 SWG GI wire/ GI clip	each	2.00
2922	CI/MS cover plate hinged to FRL Same with Locking arrangement	each	277.00
2923	Pulley of 50 mm dia	each	86.00
2924	Clamps, bolts, nuts etc.	set	112.00
2925	Flat iron clamps (50 mm X 6 mm) for G.I. pipe	each	35.00
2926	G.I. plate (10 cm X 10 cm X 5 mm)	kg	55.00
2927	Ball and socket	each	17.00
2928	Back plate	each	7.00
2929	Check nut 20mm	each	4.00
2930	Rubber reel, nut & bolts with washers and safety pin	Set	60.00
2931	PVC sleeve	Metre	5.00
2932	250 mm X 200 mm H.T. danger notice plate	each	62.00
2933	200 mm X 150 mm M.V. danger notice plate	each	48.00
2934	Earthing thimbles and solder	L.S.	13.00
2935	Cement, paint, sand etc.	L.S.	5.00
2936	Painting with primer and finish paint	L.S.	5.00
2937	Diesel	litre	64.00
2938	Cotton waste, cleaning cloth etc.	kg	46.00
2939	Cleaning materials like soap/ detergent	kg	52.00
2940	Tin solder etc.	L.S.	6.00
2941	Charcoal	kg	8.00
2942	Coke	kg	10.00
2943	Salt	kg	8.00
2944	Paint	litre	170.00

Code No.	DESCRIPTION	Unit	Rate
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	4.00
2946	Fine sand	cum	806.00
2947	Bricks ballast	cum	630.00
2948	Cement	ton	6300.00
2949	Stone aggregate (single size) 40mm nominal size	cum	1260.00
2950	Stone aggregate (single size) 20mm nominal size	cum	1410.00
2951	Stone aggregate (single size) 10mm nominal size	cum	1410.00
2952	Coarse sand (Zone III)	cum	1440.00
9999	Sundries/bending charges	L.S.	1.00

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.	Per Mtr	6049.00
3002	M.S. Pipe - 350 mm dia.	Per Mtr	3381.30
3003	M.S. Pipe- 300 mm dia.	Per Mtr	2826.22
3004	M.S. Pipe - 250mm dia.	Per Mtr	2354.78
3005	M.S. Pipe - 200mm dia.	Per Mtr	1883.82
3006	M.S. Pipe - 150mm dia.	Per Mtr	1076.37
3007	M.S. Pipe - 125mm dia.	Per Mtr	912.33
3008	M.S. Pipe - 100mm dia.	Per Mtr	743.88
3009	M.S. Pipe - 80mm dia.	Per Mtr	502.24
3010	M.S. Pipe -65mm dia.	Per Mtr	397.95
3011	M.S. Pipe -50 mm dia.	Per Mtr	314.87
3012	M.S. Pipe - 40 mm dia.	Per Mtr	223.92
3013	M.S. Pipe - 32 mm dia	Per Mtr	191.72
3014	M.S. Pipe - 25 mm dia	Per Mtr	147.39
3023	Pipe aluminium Cladding 0.63mm	sq m	360.00
	BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot water circulation as specified		

Code No.	DESCRIPTION	Unit	Rate
3024	200 mm dia	Each	7946.00
3025	150mm dia.	Each	3272.00
3026	125mm dia.	Each	2780.00
3027	100mm dia.	Each	2255.00
3028	80mm dia.	Each	1714.00
3029	65mm dia.	Each	1550.00
3030	50mm dia.	Each	1468.00
3031	40mm dia.	Each	1468.00
	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	38142.00
3033	150mm dia.	Each	18642.00
3034	125mm dia.	Each	13650.00
3035	100mm dia.	Each	10062.00
3036	80mm dia.	Each	6811.00
3037	65 mm dia	Each	5842.00
3038	50mm dia.	Each	4672.00
3039	40 mm dia	Each	2683.00
	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	8400.00
3041	150mm dia.	Each	4600.00
3042	125mm dia.	Each	3800.00
3043	100 mm dia	Each	2600.00
3044	80mm dia.	Each	1800.00
3045	65 mm dia	Each	1592.00
	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	20154.00
3047	150mm dia.	Each	9604.00
3048	125mm dia.	Each	8995.00

Code No.	DESCRIPTION	Unit	Rate
3049	100 mm dia	Each	5925.00
3050	80 mm dia	Each	4345.00
3051	65mm dia.	Each	3670.80
3052	50mm dia.	Each	2897.00
3053	40mm dia.	Each	1975.00
3054	Industrial type pressure gauges with gun metal / brass valves	Each	760.00
3055	Industrial type thermometres.	Each	600.00
	Factory fabricated GSS sheet metal rectangular/round ducting of following sheet thickness		
3056	Thickness 0.63 mm sheet	sq m	468.50
3057	Thickness 0.80 mm sheet	sq m	575.40
3058	Thickness 1.00 mm sheet	sq m	692.50
3059	Thickness 1.25 mm sheet	sq m	830.00
	GSS sheet metal of following sheet thickness		
3060	Thickness 0.63 mm sheet	sq m	373.00
3061	Thickness 0.80 mm sheet	sq m	497.00
3062	Thickness 1.00 mm sheet	sq m	622.00
3063	Thickness 1.25 mm sheet	sq m	752.00
3064	GI volume control duct damper	sq m	4300.00
	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		
3065	Actuator	sq m	4307.00
3066	Powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers	sq m	6072.00
3067	Powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers	sq m	3828.00
3068	Supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	sq m	8250.00
3069	Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	sq m	5378.00
3070	Thermal insulated flexible duct- 200 mm dia Fire dampers in supply air duct/main branch and return air path with inbuilt mechanism of spring return action	sq m	329.00

Code No.	DESCRIPTION	Unit	Rate
3071	Fire damper	sq m	6854.00
3072	Actuator	sq m	6307.00
3073	25 mm thick resin bonded glass wool having density of 32 kg/m ³ ,	sq m	109.80
3074	50mm thick, density 32 kg/cu.m resin bonded glass fiber insulation	sq m	219.00
	Duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class "O") insulation for use on existing duct		
3076	19mmthickness	sq m	423.00
3077	25mmthickness	sq m	560.00

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 thermometres (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	70437.00
3079	5100 CMH	Each	82867.00
3080	6800 CMH	Each	93120.00
3081	8500 CMH	Each	115360.00
3082	10200 CMH	Each	133040.00

Code No.	DESCRIPTION	Unit	Rate
3083	11900 CMH	Each	151200.00
3084	13600 CMH	Each	162400.00
3085	15300 CMH	Each	184080.00
3086	17000 CMH	Each	194800.00
3087	18700 CMH	Each	215280.00
3088	20400 CMH	Each	231280.00
	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 thermometres (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	62070.00
3090	5100 CMH	Each	72855.00
3091	6800 CMH	Each	81293.00
3092	8500 CMH	Each	100589.00
3093	10200 CMH	Each	117680.00
3094	11900 CMH	Each	131734.00
3095	13600 CMH	Each	142400.00
3096	15300 CMH	Each	161840.00
3097	17000 CMH	Each	170320.00
3098	18700 CMH	Each	186357.00
3099	20400 CMH	Each	202080.00

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	74792.00
3102	300 mm	Each	67023.00
3103	250 mm	Each	48253.00
3104	200 mm	Each	36397.00
3105	150 mm	Each	28217.00
3106	125 mm	Each	27974.00
3107	100 mm	Each	27455.00
3108	80 mm	Each	11739.00
3109	65 mm	Each	11626.00
3110	50 mm	Each	11388.00
	Electronic, self-balancing, pressure independent type dynamic balancing valve with integrated 2 way modulating control valves in a single body, alongwith actuator as specified		
3111	150 mm	Each	107870.00
3112	125 mm	Each	98210.00
3113	100 mm	Each	77280.00
3114	80 mm	Each	45080.00
3115	65 mm	Each	35420.00
3116	50 mm	Each	22943.00
3117	40 mm	Each	20930.00
3118	32 mm	Each	11270.00
3119	25 mm	Each	10600.00
3120	20 mm	Each	7728.00
	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		

Code No.	DESCRIPTION	Unit	Rate
	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 $\pm$ 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 thermometres (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.		
3142	23800 CMH	Each	253609.00
3143	28900 CMH	Each	267830.00
3144	34000 CMH	Each	296847.00
3145	39100 CMH	Each	340181.00
3162	23800 CMH	Each	192140.00
3163	28900 CMH	Each	245209.00
3164	34000 CMH	Each	271744.00
3165	39100 CMH	Each	311355.00
3201	Resin bonded fiber glass insulation of density 80 kg/cu m of thickness 65 mm on existing pipe	sq m	928.00
HOT DIPPED GALVANIZED CABLE TRAYS			
3701	MS perforated cable tray Hot Dipped Galvanized 100 X 50 X 1.6 mm	Metre	239.00
3702	MS perforated cable tray Hot Dipped Galvanized 150 X 50 X 1.6 mm	Metre	268.00
3703	MS perforated cable tray Hot Dipped Galvanized 225 X 50 X 1.6 mm	Metre	386.10
3704	MS perforated cable tray Hot Dipped Galvanized 300 X 50 X 1.6 mm	Metre	429.00
3705	MS perforated cable tray Hot Dipped Galvanized 375 X 50 X 2 mm	Metre	584.10

Code No.	DESCRIPTION	Unit	Rate
3706	MS perforated cable tray Hot Dipped Galvanized 450 X 50 X 2 mm	Metre	649.00
3707	MS perforated cable tray Hot Dipped Galvanized 600 X 50 X 2 mm	Metre	950.00
3708	MS perforated cable tray Hot Dipped Galvanized 300 X 62.5 X 2 mm	Metre	578.00
3709	MS perforated cable tray Hot Dipped Galvanized 375 X 62.5 X 2 mm	Metre	680.00
3710	MS perforated cable tray Hot Dipped Galvanized 450 X 62.5 X 2 mm	Metre	782.00
3711	MS perforated cable tray Hot Dipped Galvanized 600 X 62.5 X 2 mm	Metre	989.00
3712	MS perforated cable tray Hot Dipped Galvanized 750 X 62.5 X 2 mm	Metre	1216.00
3713	MS perforated cable tray Hot Dipped Galvanized 900 X 62.5 X 2 mm	Metre	1424.00
3714	MS perforated cable tray Hot Dipped Galvanized 600 X 75 X 2 mm	Metre	1020.00
3715	MS perforated cable tray Hot Dipped Galvanized 750 X 75 X 2 mm	Metre	1224.00
3716	MS perforated cable tray Hot Dipped Galvanized 900 X 75 X 2 mm	Metre	1428.00
3717	MS perforated Hot Dipped Galvanized cable tray Connector 100 X 50 X 1.6 mm	each	30.00
3718	MS perforated Hot Dipped Galvanized cable tray Connector 150 X 50 X 1.6 mm	each	36.00
3719	MS perforated Hot Dipped Galvanized cable tray Connector 225 X 50 X 1.6 mm	each	38.00
3720	MS perforated Hot Dipped Galvanized cable tray Connector 300 X 50 X 1.6 mm	each	38.00
3721	MS perforated Hot Dipped Galvanized cable tray Connector 375 X 50 X 2 mm	each	38.00
3722	MS perforated Hot Dipped Galvanized cable tray Connector 450 X 50 X 2 mm	each	38.00
3723	MS perforated Hot Dipped Galvanized cable tray Connector 600 X 50 X 2 mm	each	38.00

Code No.	DESCRIPTION	Unit	Rate
3724	MS perforated Hot Dipped Galvanized cable tray Connector 300 X 62.5 X 2 mm	each	38.00
3725	MS perforated Hot Dipped Galvanized cable tray Connector 375 X 62.5 X 2 mm	each	38.00
3726	MS perforated Hot Dipped Galvanized cable tray Connector 450 X 62.5 X 2 mm	each	38.00
3727	MS perforated Hot Dipped Galvanized cable tray Connector 600 X 62.5 X 2 mm	each	38.00
3728	MS perforated Hot Dipped Galvanized cable tray Connector 750 X 62.5 X 2 mm	each	38.00
3729	MS perforated Hot Dipped Galvanized cable tray Connector 900 X 62.5 X 2 mm	each	38.00
3733	MS perforated Hot Dipped Galvanized cable tray Bend 100 X 50 X 1.6 mm	each	599.00
3734	MS perforated Hot Dipped Galvanized cable tray Bend 150 X 50 X 1.6 mm	each	670.00
3735	MS perforated Hot Dipped Galvanized cable tray Bend 225 X 50 X 1.6 mm	each	965.25
3736	MS perforated Hot Dipped Galvanized cable tray Bend 300 X 50 X 1.6 mm	each	1072.50
3737	MS perforated Hot Dipped Galvanized cable tray Bend 375 X 50 X 2 mm	each	1460.25
3738	MS perforated Hot Dipped Galvanized cable tray Bend 450 X 50 X 2 mm	each	1622.50
3739	MS perforated Hot Dipped Galvanized cable tray Bend 600 X 50 X 2 mm	each	2375.00
3740	MS perforated Hot Dipped Galvanized cable tray Bend 300 X 62.5 X 2 mm	each	1445.00
3741	MS perforated Hot Dipped Galvanized cable tray Bend 375 X 62.5 X 2 mm	each	1701.00
3742	MS perforated Hot Dipped Galvanized cable tray Bend 450 X 62.5 X 2 mm	each	1955.00
3743	MS perforated Hot Dipped Galvanized cable tray Bend 600 X 62.5 X 2 mm	each	2268.00
3744	MS perforated Hot Dipped Galvanized cable tray Bend 750 X 62.5 X 2 mm	each	3037.00

Code No.	DESCRIPTION	Unit	Rate
3745	MS perforated Hot Dipped Galvanized cable tray Bend 900 X 62.5 X 2 mm	each	3553.00
3746	MS perforated Hot Dipped Galvanized cable tray Bend 600 X 75 X 2 mm	each	2550.00
3747	MS perforated Hot Dipped Galvanized cable tray Bend 750 X 75 X 2 mm	each	3060.00
3748	MS perforated Hot Dipped Galvanized cable tray Bend 900 X 75 X 2 mm	each	3570.00
3749	MS perforated Hot Dipped Galvanized cable tray Reducer 100 X 50 X 1.6 mm	each	950.00
3750	MS perforated Hot Dipped Galvanized cable tray Reducer 150 X 50 X 1.6 mm	each	1131.00
3751	MS perforated Hot Dipped Galvanized cable tray Reducer 225 X 50 X 1.6 mm	each	1473.00
3752	MS perforated Hot Dipped Galvanized cable tray Reducer 300 X 50 X 1.6 mm	each	1752.00
3753	MS perforated Hot Dipped Galvanized cable tray Reducer 375 X 50 X 2 mm	each	2159.00
3754	MS perforated Hot Dipped Galvanized cable tray Reducer 450 X 50 X 2 mm	each	2350.00
3755	MS perforated Hot Dipped Galvanized cable tray Reducer 600 X 50 X 2 mm	each	3344.00
3756	MS perforated Hot Dipped Galvanized cable tray Reducer 300 X 62.5 X 2 mm	each	2153.00
3757	MS perforated Hot Dipped Galvanized cable tray Reducer 375 X 62.5 X 2 mm	each	2534.00
3758	MS perforated Hot Dipped Galvanized cable tray Reducer 450 X 62.5 X 2 mm	each	2996.50
3759	MS perforated Hot Dipped Galvanized cable tray Reducer 600 X 62.5 X 2 mm	each	3841.00
3760	MS perforated Hot Dipped Galvanized cable tray Reducer 750 X 62.5 X 2 mm	each	4144.00
3761	MS perforated Hot Dipped Galvanized cable tray Reducer 900 X 62.5 X 2 mm	each	4834.50
3762	MS perforated Hot Dipped Galvanized cable tray Reducer 600 X 75 X 2 mm	each	3351.00

Code No.	DESCRIPTION	Unit	Rate
3763	MS perforated Hot Dipped Galvanized cable tray Reducer 750 X 75 X 2 mm	each	4201.00
3764	MS perforated Hot Dipped Galvanized cable tray Reducer 900 X 75 X 2 mm	each	4893.00
3765	MS perforated Hot Dipped Galvanized cable tray Tee 100 X 50 X 1.6 mm	each	718.00
3766	MS perforated Hot Dipped Galvanized cable tray Tee 150 X 50 X 1.6 mm	each	750.00
3767	MS perforated Hot Dipped Galvanized cable tray Tee 225 X 50 X 1.6 mm	each	1158.30
3768	MS perforated Hot Dipped Galvanized cable tray Tee 300 X 50 X 1.6 mm	each	1287.00
3769	MS perforated Hot Dipped Galvanized cable tray Tee 375 X 50 X 2 mm	each	1752.30
3770	MS perforated Hot Dipped Galvanized cable tray Tee 450 X 50 X 2 mm	each	1947.00
3771	MS perforated Hot Dipped Galvanized cable tray Tee 600 X 50 X 2 mm	each	2850.00
3772	MS perforated Hot Dipped Galvanized cable tray Tee 300 X 62.5 X 2 mm	each	1734.00
3773	MS perforated Hot Dipped Galvanized cable tray Tee 375 X 62.5 X 2 mm	each	2079.00
3774	MS perforated Hot Dipped Galvanized cable tray Tee 450 X 62.5 X 2 mm	each	2346.00
3775	MS perforated Hot Dipped Galvanized cable tray Tee 600 X 62.5 X 2 mm	each	3024.00
3776	MS perforated Hot Dipped Galvanized cable tray Tee 750 X 62.5 X 2 mm	each	3641.00
3777	MS perforated Hot Dipped Galvanized cable tray Tee 900 X 62.5 X 2 mm	each	4265.00
3778	MS perforated Hot Dipped Galvanized cable tray Tee 600 X 75 X 2 mm	each	3060.00
3779	MS perforated Hot Dipped Galvanized cable tray Tee 750 X 75 X 2 mm	each	3672.00
3780	MS perforated Hot Dipped Galvanized cable tray Tee 900 X 75 X 2 mm	each	4284.00

Code No.	DESCRIPTION	Unit	Rate
3781	MS perforated Hot Dipped Galvanized cable tray Cross member 100 X 50 X 1.6 mm	each	718.00
3782	MS perforated Hot Dipped Galvanized cable tray Cross member 150 X 50 X 1.6 mm	each	750.00
3783	MS perforated Hot Dipped Galvanized cable tray Cross member 225 X 50 X 1.6 mm	each	1172.00
3784	MS perforated Hot Dipped Galvanized cable tray Cross member 300 X 50 X 1.6 mm	each	1436.00
3785	MS perforated Hot Dipped Galvanized cable tray Cross member 375 X 50 X 2 mm	each	1940.00
3786	MS perforated Hot Dipped Galvanized cable tray Cross member 450 X 50 X 2 mm	each	2249.00
3787	MS perforated Hot Dipped Galvanized cable tray Cross member 600 X 50 X 2 mm	each	2860.00
3788	MS perforated Hot Dipped Galvanized cable tray Cross member 300 X 62.5 X 2 mm	each	1739.00
3789	MS perforated Hot Dipped Galvanized cable tray Cross member 375 X 62.5 X 2 mm	each	2041.00
3790	MS perforated Hot Dipped Galvanized cable tray Cross member 450 X 62.5 X 2 mm	each	2350.00
3791	MS perforated Hot Dipped Galvanized cable tray Cross member 600 X 62.5 X 2 mm	each	2967.00
3792	MS perforated Hot Dipped Galvanized cable tray Cross member 750 X 62.5 X 2 mm	each	3641.00
3793	MS perforated Hot Dipped Galvanized cable tray Cross member 900 X 62.5 X 2 mm	each	4265.00
3794	MS perforated Hot Dipped Galvanized cable tray Cross member 600 X 75 X 2 mm	each	3062.00
3795	MS perforated Hot Dipped Galvanized cable tray Cross member 750 X 75 X 2 mm	each	2620.00
3796	MS perforated Hot Dipped Galvanized cable tray Cross member 900 X 75 X 2 mm	each	3056.00
3801	GI Suspender 6 mm dia 0.75m long	each	20.00
3802	GI Suspender 8 mm dia 0.75m long	each	25.00
3803	GI Suspender 10 mm dia 0.75m long	each	30.00

Code No.	DESCRIPTION	Unit	Rate
3804	25 mm X 25 mm X 3 mm Galvannised slotted/angle iron/ channel	kg	41.00
3805	35 mm X 55 mm X 4 mm Galvannised slotted/angle iron/ channel	kg	41.00
3806	35mm X 35 mm X 5 mm Galvannised slotted/angle iron/ channel	kg	41.00
4001	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 400 mm dia pipe	Metre	1733.00
4002	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 350 mm dia pipe	Metre	1549.00
4003	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 300 mm dia pipe	Metre	1270.00
4004	Resin bonded fiber glass pipe section 250mm insulation having density 80 kg/cum-75 mm thickness for 250 mm dia pipe	Metre	1109.00
4005	Resin bonded fiber glass pipe section 200 mm insulation having density 80 kg/cum-75 mm thickness for 200 mm dia pipe	Metre	939.00
4006	Resin bonded fiber glass pipe section 150 mm insulation having density 80 kg/cum-50 mm thickness for 150 mm dia pipe	Metre	475.00
4007	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 125mm dia pipe	Metre	419.00
4008	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 100 mm dia pipe	Metre	188.16
4009	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 80 mm dia pipe	Metre	310.00
4010	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 65 mm dia pipe	Metre	281.00
4011	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 50 mm dia pipe	Metre	245.00

Code No.	DESCRIPTION	Unit	Rate
4012	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50mm thickness for 40 mm dia pipe	Metre	221.00
4013	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 32 mm dia pipe	Metre	208.00
4014	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 25 mm dia pipe	Metre	189.00
4015	Nitrile rubber (closed cell elastometric nitrile rubber of class 'O') Insulation -32 mm thickness	sq m	627.00
4016	Nitrile rubber (closed cell elastometric nitrile rubber of class 'O') Insulation -19 mm thickness	sq m	347.00
4017	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75mm thickness for 400 mm dia pipe	Metre	981.00
4018	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75mm thickness for 350 mm dia pipe	Metre	838.25
4019	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75mm thickness for 300mm dia pipe	Metre	722.75
4020	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75mm thickness for 250 mm dia pipe	Metre	603.75
4021	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75 mm thickness for 200 mm dia pipe	Metre	514.50
4022	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 150 mm dia pipe	Metre	244.13
4023	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation - 50 mm thickness for 125 mm dia pipe	Metre	215.25
4024	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 100 mm dia pipe	Metre	189.00
4025	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 80 mm dia pipe	Metre	156.63
4026	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 65 mm dia pipe	Metre	142.63
4027	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 50 mm dia pipe	Metre	126.00
4028	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 40 mm dia pipe	Metre	112.00

Code No.	DESCRIPTION	Unit	Rate
4029	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 32 mm dia pipe	Metre	105.00
4030	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 25 mm dia pipe	Metre	96.25
4031	Resin bonded fiber glass insulation of thickness 75 mm on existing pipe	sq m	1279.00
4032	Resin bonded fiber glass insulation of density 80 kg/cu.mt. of thickness 50 mm on existing pipe	sq m	1049.00
4033	Resin bonded fiber glass insulation of density 80 kg/cu.mt. Of thickness 40 mm on existing pipe	sq m	909.92
4034	Resin bonded fiber glass insulation of thickness 25 mm on existing pipe	sq m	600.55
4037	Expanded polystyrene insulation of thickness 75 mm on existing pipe	sq m	210.00
4038	Expanded polystyrene insulation of thickness 50 mm on existing pipe	sq m	140.00
4069	Acoustic lining of supply air duct with 25mm thick resin bonded glass wool having density of 32kg/m ³	sq m	109.80
4070	Reinforced fiber glass tissue and 0.08mm perforated aluminium sheet	sq m	299.00
4071	50 mm thick resin bonded glass wool having density of 32kg/m ³	sq m	219.00
4072	50 mm thick resin bonded glass wool having density of 24 kg/m ³ with factory laminated aluminium foil	sq m	162.00
4073	Resin bonded fiber glass insulation of thickness 65 mm on existing pipe	sq m	1160.00
FIRE DETECTION AND ALARM SYSTEM			
4101	Heat Detectors of electronic Rate of Rise cum fixed temperature (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

Code No.	DESCRIPTION	Unit	Rate
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 transformer 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. 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	Each	625.00
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 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.	Each	9750.00

Code No.	DESCRIPTION	Unit	Rate
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. Announcement 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 lamps, DC and AC voltMetres & Ammetres 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		

Code No.	DESCRIPTION	Unit	Rate
	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 lamps, DC and AC voltmeters & Ammetres 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,30 AH each sealed maintenance free batteries 1 Set.	Each	32272.00
	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.		

Code No.	DESCRIPTION	Unit	Rate
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. Dress Plate. Battery dress plate. Chassis low profile. Dress Panel blanck covers. BACnet 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. BACnet 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
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

Code No.	DESCRIPTION	Unit	Rate
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
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 opening of appropriate dia on appropriate interval.	Metre	78.00
4144	Cost of Fire Survival armoured cable, Fibre glass tape wrapped, ZH inner, outer sheath 2x1.5 Sq. mm cable.	Metre	196.20
4145	Cost of Fire alarm armoured FRLS cable 2 x 1.5 sqmm 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.	Metre	58.20
4146	Cost of single pair 2-core 48/0.2 mm, speaker cable	Metre	24.64
4147	Cost of 25 mm dia MS flexible pipe with PVC coating along with all ancillaries & accessories like coupler etc.	Metre	25.00

Code No.	DESCRIPTION	Unit	Rate
4148	Two pair 0.5 Sq. mm copper twisted cable for talk back system.	Metre	8.16
4149	Addressable beam detector	Each	55100.00
4150	Cost of two pair 2-core 48/0.2 mm for PA System. (wastage 5%)	Metre	49.28
4151	Cost of three pair 2-core 48/0.2 mm Speaker Cable for PA System.(wastage 5%)	Metre	73.92
4152	Cost of four pair 2-core 48/0.2 mm Speaker Cable for PA System.(wastage 5%)	Metre	98.56

REFERENCE TO AMENDMENTS

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With its huge resource 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 road, 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.

Standardization of rates of some of the items pertaining to Fire Detection and Alarm System works have been added here. Thus DAR (E&M) 2018 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 and Fire Detection and Alarm System.



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