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Director General



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FOREWORD

This Delhi Schedule of Rates (E&M) 2014 is a comprehensive document required for the execution of Electrical Works and is useful not only to the Engineers of the CPWD but also to those of other Government Departments and Undertakings which follow the CPWD Schedule of Rates in their works.

The Schedule of Rates for Electrical Works was first compiled in 1935 followed by number of revisions from time to time in order to bring it in line with the prevailing technology and market rate. In previous years the Schedule of Rates for Electrical Works were published in two parts (Part-I Internal & Part-II External) till 2007. The last Schedule of Rates for Electrical Works was published in 2012 which combined both internal and external electrical works.

Now Schedule of Rates for Electrical Works is named as Delhi Schedule of Rates (E&M) and first DSR(E&M) was published in 2013 incorporating items for HVAC Works of plumbing, ducting and AHU also. The DSR (E&M) 2013 has now been revised as DSR(E&M)2014 to take care of the increased cost on account of revised labour and material rates & also rationalized coefficients of labour and material in respect of wiring items. In addition, some of the items pertaining to MCBDBs have either been deleted or nomenclature enriched to take care of manufacturing practices. Accordingly, this Delhi Schedule of Rates (E&M) 2014 has been prepared.

I acknowledge the hard work put in by Sh. S.S. Garg, SE(E) TLQA, Sh. R.R. Meena, EE(E)TLQA and Sh. M. P. Sharma, EE(E) TAS under the guidance of Sh. Mukesh Vij ADG(TD) and Sh. C. K. Varma, CE(E)CSQ without which the revision would not have been possible. I also acknowledge the valuable suggestions of other members of specification committee as well as all those involved in the process of revision and finalisation of Delhi Schedule of Rates (E&M) 2014.

I am sure that this Schedule 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' 2014

(V.K. Gupta)
Director General, CPWD

राकेश कुमार सिंघल
विशेष महानिदेशक (उत्तरी क्षेत्र)

RAKESH KUMAR SINGHAL
SPECIAL DIRECTOR GENERAL (NR)



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PREFACE

The Delhi Schedule of Rates (E&M) 2014 is the revised edition of Delhi Schedule of Rates (E&M) 2013 and combines Schedule of Rates for Electrical Works Part-I Internal, Part -II External and Schedule of Rates for items relating to plumbing , ducting and AHU of HVAC works.

Under chapter 1- wiring, coefficients of material and labour have been rationalized make the rates more realistic. Items like single door MCBDB have been deleted while nomenclatures of MCBDBs having 2+4 ways, 2+6 ways etc. have also included 6 ways, 8 ways DBs etc. In this DSR under chapter 16, insulation thickness of resin bonded fibre glass pipe section on chilled water piping was proposed to be changed as per CPWD Specification for HVAC work i.e. from 65 mm to 75 mm and from 40 mm to 50 mm.

This Schedule of Rates is based on the study of current market rates of materials at Delhi collected during May-June 2014 and labour rates are the current minimum wages issued by the Government of Delhi w.e.f. 01-04-2014.

This Schedule of Rates will be read along with relevant CPWD Specifications for Electrical Works. The Delhi schedule of Rates (E&M) 2014 now replaces the Delhi Schedule of Rates (E&M) 2013. 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 (E) CSQ, CPWD, Nirman Bhawan, New Delhi -110011 (Telephone No. 011-23062120).

(R.K. SINGHAL)

SPL. DIRECTOR GENERAL (NR), CPWD
CHAIRMAN, SPECIFICATIONS COMMITTEE

PLACE : NEW DELHI

DATE : July' 2014



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SALIENT NOTES FOR DSR (E&M) 2014

1. The items of works contained herein are to be executed as per CPWD General Specification for Electrical Work Part-I Internal, Part-II External, Part-IV Sub-Station and CPWD General Specification for HVAC works 2004, with amendments as on June-2014.
2. The rates are complete i.e. including all material, labour, taxes & duties (in Delhi), T&P etc. and over head & Profit as per orders of the department applicable as on date. The rates of labour and material have been provided in appendix-I & II and are based on the study of current market rates of materials at Delhi collected during May-June 2014 and labour rates are the current minimum wages issued by the Government of Delhi w.e.f. 01-04-2014. While preparing Analysis of rates the Labour cess has not been included and same shall be taken in justification as per prevailing norms.
3. The rates in this DSR are for working height upto 4.5 meter from floor level wherever height not specified. The rates of material are for reputed brands, factory fabricated and tested wherever available from manufacturers as submitted by field units.
4. For wiring items, the coefficients of material and labour have been rationalized to make the rates more precise. Items like single door MCBDB have been deleted while nomenclature of MCBDBs having 2+4 ways, 2+6 ways etc. have been widened by including 6 ways, 8 ways DBs etc. to account for the utilization as well as manufacturing practices.
5. 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.
6. In this DSR under chapter 16, insulation thickness of resin bonded fibre glass pipe section on chilled water piping has been changed as per CPWD Specification for HVAC work i.e. from 65 mm to 75 mm and from 40 mm to 50 mm.
7. For electrical panels, CPWD General Specification for Electrical Works Part-IV shall be applicable. In case of HVAC works, adopted quantum of labour and sundries have been rationalized as per the assessment at site as well as works awarded within last one year i.e. 2013.

Place : New Delhi
Date : July' 2014

(Mukesh Vij)
Addl. Director General (TD), CPWD

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CONTENTS

S.N.	NAME OF CHAPTER / SUBHEAD	PAGE NO.
1	WIRING	1
2	MCCB, MCB & DB'S	10
3	RISING MAINS & BUS TRUNKING	15
4	CABLE TRAYS	20
5	EARTHING	23
6	LIGHTNING CONDUCTOR	25
7	MV CABLE LAYING	26
8	HT CABLE LAYING	28
9	MV CABLE JOINTING & END TERMINATION	30
10	HV CABLE JOINTING & END TERMINATION	35
11	POLE ERECTION	37
12	MV OVER HEAD LINE WORK	38
13	HV OVER HEAD LINE WORK	42
14	MISC. CIVIL ITEMS	45
15	LIGHTING CONTROLS	47
16	HVAC (ONLY PLUMBING, DUCTING & AHU)	48
17	Appendix-I BASIC RATE OF LABOUR & HIRE CHARGES	58
18	Appendix-II BASIC RATE OF MATERIAL	59

CHAPTER 1 - WIRING

Item Code	Description	Unit	Rate ₹
WIRING IN STEEL CONDUIT			
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	Point	635
1.1.2	Group B	Point	769
1.1.3	Group C	Point	960
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.	Point	964
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	Point	677
1.3.2	Group B	Point	811
1.3.3	Group C	Point	1003
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.	Point	1069
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.	Metre	233
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.	Metre	359

Item Code	Description	Unit	Rate ₹
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	Metre	175
1.7.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	200
1.7.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	231
1.7.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	315
1.7.5	2 X 10 sq. mm + 1 X 10 sq. mm earth wire	Metre	417
1.7.6	2 X 16 sq. mm + 1 X 16 sq. mm earth wire	Metre	600
1.7.7	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	Metre	303
1.7.8	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre	365
1.7.9	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Metre	509
1.7.10	4 X 10 sq. mm + 2 X 10 sq. mm earth wire	Metre	803
1.7.11	4 X 16 sq. mm + 2 X 16 sq. mm earth wire	Metre	1177
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	Point	476
1.8.2	Group B	Point	543
1.8.3	Group C	Point	675
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.	Point	679
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	Point	518
1.10.2	Group B	Point	585
1.10.3	Group C	Point	718
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,		

Item Code	Description	Unit	Rate ₹
	suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required.	Point	770
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.	Metre	162
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.	Metre	275
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	Metre	106
1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	131
1.14.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	162
1.14.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	221
1.14.5	2 X 10 sq. mm + 1 X 10 sq. mm earth wire	Metre	327
1.14.6	2 X 16 sq. mm + 1 X 16 sq. mm earth wire	Metre	480
1.14.7	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	Metre	210
1.14.8	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre	275
1.14.9	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Metre	389
1.14.10	4 X 10 sq. mm + 2 X 10 sq. mm earth wire	Metre	597
1.14.11	4 X 16 sq. mm + 2 X 16 sq. mm earth wire	Metre	883
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	Point	270
1.15.2	Group B	Point	303
1.15.3	Group C	Point	422
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.	Point	422
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	Metre	22

Item Code	Description	Unit	Rate ₹
1.17.2	2 x 1.5 sq. mm	Metre	36
1.17.3	3 x 1.5 sq. mm	Metre	50
1.17.4	4 x 1.5 sq. mm	Metre	63
1.17.5	5 x 1.5 sq. mm	Metre	81
1.17.6	6 x 1.5 sq. mm	Metre	95
1.17.7	7 x 1.5 sq. mm	Metre	112
1.17.8	8 x 1.5 sq. mm	Metre	126
1.17.9	9 x 1.5 sq. mm	Metre	148
1.17.10	10 x 1.5 sq. mm	Metre	162
1.17.11	2 x 2.5 sq. mm	Metre	53
1.17.12	3 x 2.5 sq. mm	Metre	75
1.17.13	4 x 2.5 sq. mm	Metre	97
1.17.14	5 x 2.5 sq. mm	Metre	122
1.17.15	6 x 2.5 sq. mm	Metre	144
1.17.16	7 x 2.5 sq. mm	Metre	171
1.17.17	8 x 2.5 sq. mm	Metre	193
1.17.18	9 x 2.5 sq. mm	Metre	223
1.17.19	10 x 2.5 sq. mm	Metre	245
1.17.20	2 x 4 sq. mm	Metre	77
1.17.21	3 x 4 sq. mm	Metre	109
1.17.22	4 x 4 sq. mm	Metre	146
1.17.23	5 x 4 sq. mm	Metre	180
1.17.24	6 x 4 sq. mm	Metre	212
1.17.25	7 x 4 sq. mm	Metre	245
1.17.26	8 x 4 sq. mm	Metre	277
1.17.27	9 x 4 sq. mm	Metre	311
1.17.28	10 x 4 sq. mm	Metre	348
1.17.29	2 x 6 sq. mm	Metre	113
1.17.30	3 x 6 sq. mm	Metre	160
1.17.31	4 x 6 sq. mm	Metre	212
1.17.32	5 x 6 sq. mm	Metre	260
1.17.33	6 x 6 sq. mm	Metre	317
1.17.34	7 x 6 sq. mm	Metre	364
1.17.35	8 x 6 sq. mm	Metre	417
1.17.36	9 x 6 sq. mm	Metre	464
1.17.37	10 x 6 sq. mm	Metre	514

Item Code	Description	Unit	Rate ₹
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	Metre	14
1.18.2	2 Pair	Metre	18
1.18.3	4 Pair	Metre	27
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.	Metre	28
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	Metre	121
1.20.2	25 mm	Metre	142
1.20.3	32 mm	Metre	193
1.20.4	40 mm	Metre	287
1.20.5	50 mm	Metre	387
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	Metre	53
1.21.2	25 mm	Metre	65
1.21.3	32 mm	Metre	85
1.21.4	40 mm	Metre	110
1.21.5	50 mm	Metre	144
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	Each	89
1.22.2	100 mm X 100 mm X 60 mm deep	Each	108
1.22.3	150 mm X 75 mm X 60 mm deep	Each	111
1.22.4	150 mm X 150 mm X 60 mm deep	Each	160
1.22.5	180 mm X 100 mm X 60 mm deep	Each	127
1.22.6	200 mm X 125 mm X 60 mm deep	Each	166
1.22.7	200 mm X 150 mm X 60 mm deep	Each	187

Item Code	Description	Unit	Rate ₹
1.22.8	200 mm X 150 mm X 75 mm deep	Each	194
1.22.9	200 mm X 250 mm X 60 mm deep	Each	247
1.22.10	200 mm X 250 mm X 75 mm deep	Each	261
1.22.11	200 mm X 150 mm X 100 mm deep	Each	223
1.22.12	200 mm X 250 mm X 100 mm deep	Each	275
1.22.13	200 mm X 300 mm X 60 mm deep	Each	295
1.22.14	200 mm X 300 mm X 100 mm deep	Each	309
1.22.15	250 mm X 300 mm X 60 mm deep	Each	329
1.22.16	250 mm X 300 mm X 100 mm deep	Each	365
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	Each	33
1.23.2	2 way 5/6 amps switch	Each	37
1.23.3	15/16 amp switch	Each	72
1.23.4	3 pin 5/6 amp socket outlet	Each	41
1.23.5	6 pin 15/16 amp socket outlet	Each	83
1.23.6	Telephone socket outlet	Each	52
1.23.7	TV antenna socket outlet	Each	46
1.23.8	Bell push	Each	44
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	Each	81
1.24.2	2 way 5/6 amps switch	Each	96
1.24.3	15/16 amp switch	Each	111
1.24.4	3 pin 5/6 amp socket outlet	Each	79
1.24.5	6 pin 15/16 amp socket outlet	Each	150
1.24.6	Telephone socket outlet	Each	95
1.24.7	TV antenna socket outlet	Each	94
1.24.8	Bell push	Each	111
1.25	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	284
1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	23

Item Code	Description	Unit	Rate ₹
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 (75mm X 75mm)	Each	166
1.27.2	3 Module (100mm X 75mm)	Each	175
1.27.3	4 Module (125mm X 75mm)	Each	195
1.27.4	6 Module (200mm X 75mm)	Each	248
1.27.5	8 Module (125mm X 125mm)	Each	287
1.27.6	12 Module (200mm X 150mm)	Each	334
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	Each	79
1.28.2	3 Module	Each	88
1.28.3	4 Module	Each	97
1.28.4	6 Module	Each	122
1.28.5	8 Module	Each	147
1.28.6	12 Module	Each	162
1.29	Supplying and fixing metal box of 150mm X 75mm X 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 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).	Each	194
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 front 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.	Each	276
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. (For light plugs to be used in non residential buildings).	Each	303
1.32	Supplying and fixing suitable size GI box with modular plate and cover in front 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.	Each	395
1.33	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	Each	43
1.34	Supplying and fixing brass batten/ angle holder including connection etc. as required.	Each	74

Item Code	Description	Unit	Rate ₹
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.	Each	52
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.	Each	163
1.37	Supplying and fixing stiff pendent with 600 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.	Each	195
1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.	Each	61
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.	Metre	21
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.	Metre	19
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.	Each	91
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.	Each	233
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)	Each	31
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.	Each	95
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.	Each	122

Item Code	Description	Unit	Rate ₹
1.46	Installation, testing and commissioning of resistance type ceiling fan regulator, in existing switch box including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, earthing the regulator etc. as required.	Each	52
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)	Each	23
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)	Each	27
1.49	Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.	Each	26
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	Each	204
1.50.2	510 mm sweep	Each	288
1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	90
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.	Each	80
1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/ PVC conduit as required.	Metre	33

CHAPTER 2 - MCCB, MCB & DB'S

Item Code	Description	Unit	Rate ₹
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 Amp TP&N	Each	1483
2.1.2	63 Amp TP&N	Each	2238
2.1.3	100 Amp TP&N	Each	4524
2.1.4	125 Amp TP&N	Each	4847
2.1.5	160 Amp TP&N	Each	5767
2.1.6	200 Amp TP&N	Each	6601
2.1.7	320 Amp TP&N	Each	10734
2.1.8	400 Amp TP&N	Each	13275
2.2	Providing and fixing following rating and breaking capacity and pole MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.		
2.2.1	100 Amp, 16 KA,TPMCCB	Each	3205
2.2.2	125 Amp, 16 KA,TPMCCB	Each	3983
2.2.3	160 Amp, 16 KA,TPMCCB	Each	4520
2.2.4	200 Amp, 16 KA,TPMCCB	Each	6965
2.2.5	200 Amp, 25 KA,TPMCCB	Each	8814
2.2.6	250 Amp, 25 KA,TPMCCB	Each	11866
2.2.7	250 Amp, 35 KA,TPMCCB	Each	12855
2.2.8	315 Amp, 35 KA,TPMCCB	Each	17372
2.2.9	400 Amp, 35 KA,TPMCCB	Each	17372
2.2.10	500 Amp, 35 KA,TPMCCB	Each	20129
2.2.11	630 Amp, 50 KA,TPMCCB	Each	20490
2.2.12	800 Amp, 50 KA,TPMCCB	Each	27369
2.2.13	100 Amp, 30KA, FPMCCB	Each	5347
2.2.14	125 Amp, 36KA, FPMCCB	Each	5434
2.2.15	200 Amp, 36KA, FPMCCB	Each	13118
2.2.16	250 Amp, 36KA, FPMCCB	Each	14642
2.2.17	250 Amp, 50KA, FPMCCB	Each	15179
2.2.18	400 Amp, 50KA, FPMCCB	Each	21172
2.2.19	630 Amp, 50KA, FPMCCB	Each	26307

Item Code	Description	Unit	Rate ₹
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	Deleted		
2.3.2	Deleted		
2.3.3	Deleted		
2.3.4	Deleted		
2.3.5	2 + 4 way/ 6 way , Double door	Each	923
2.3.6	2 + 6 way/ 8 way , Double door	Each	1041
2.3.7	2 + 8 way/ 10 way , Double door	Each	1132
2.3.8	2 + 12 way / 14 way, Double door	Each	1344
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	Deleted		
2.4.2	Deleted		
2.4.3	Deleted		
2.4.4	4 way (4 + 12), Double door	Each	2175
2.4.5	6 way (4 + 18), Double door	Each	2636
2.4.6	8 way (4 + 24), Double door	Each	3148
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	Deleted		
2.5.2	Deleted		
2.5.3	Deleted		
2.5.4	4 way (4 + 12), Double door	Each	4478
2.5.5	8 way (4 + 24), Double door	Each	5641
2.5.6	12 way (4 + 36), Double door	Each	7165
2.6	Supplying and fixing 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		

Item Code	Description	Unit	Rate ₹
	mounting MCB's, with provision of 100 amps TP 16 KA MCCB as incomer, interconnection between incomer MCCB and bus bars (but without MCB's/ MCCB) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)		
2.6.1	Deleted		
2.6.2	Deleted		
2.6.3	Deleted		
2.7	Supplying and fixing following way prewired SP&N MCB distribution board of steel sheet for 240 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)		
2.7.1	Deleted		
2.7.2	Deleted		
2.7.3	Deleted		
2.7.4	2 + 4 way/ 6 way , Double door	Each	2508
2.7.5	2 + 8 way/ 10 way , Double door	Each	2995
2.7.6	2 + 12 way / 14 way , Double door	Each	3613
2.8	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)		
2.8.1	Deleted		
2.8.2	Deleted		
2.8.3	Deleted		
2.8.4	Deleted		
2.8.5	4 way (4 + 12), Double door	Each	7357
2.8.6	6 way (4 + 18), Double door	Each	9496
2.8.7	8 way (4 + 24), Double door	Each	10405
2.8.8	12 way (4 + 36), Double door	Each	12782
2.9	Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box 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,		

Item Code	Description	Unit	Rate ₹
	terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FRLS PVC insulated copper conductor upto the terminal connector/ neutral link, earthing etc as required (But without MCB/ RCCB/ Isolator). (Note : Prewired vertical type MCB TPDB is normally used where 3 phase outlets are required.)		
2.9.1	Deleted		
2.9.2	Deleted		
2.9.3	Deleted		
2.9.4	Deleted		
2.9.5	4 way Double door	Each	7901
2.9.6	6 way Double door	Each	10204
2.9.7	8 way Double door	Each	11123
2.9.8	12 way Double door	Each	14768
2.10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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	Each	169
2.10.2	Single pole and neutral	Each	441
2.10.3	Double pole	Each	459
2.10.4	Triple pole	Each	696
2.10.5	Triple pole and neutral	Each	887
2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	7
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	Each	218
2.12.2	63 amps	Each	250
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 amps	Each	659
2.13.2	63 amps	Each	670
2.13.3	100 amps	Each	851
2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing		

Item Code	Description	Unit	Rate ₹
	MCB DB complete with connections, testing and commissioning etc. as required.		
2.14.1	25 amps	Each	1645
2.14.2	40 amps	Each	1714
2.14.3	63 amps	Each	2237
2.15	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
2.15.1	25 amps	Each	2088
2.15.2	40 amps	Each	2123
2.15.3	63 amps	Each	2294
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.	Each	617
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.	Each	868
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.	Each	954
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.	Each	1967
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.	Each	2473
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.	Each	141
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.	Each	155

CHAPTER 3 - RISING MAINS & BUS TRUNKING

Item Code	Description	Unit	Rate ₹
3.1	Supplying, installing on wall, testing and commissioning of following capacity rising mains made of 1.6mm thick sheet steel enclosure duly painted with powder coating, wall straps, fully PVC insulated 4 Nos aluminium bus bars 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 amps (S.C. rating for 1 sec - 15 KA)	Metre	5183
3.1.2	315 amps (S.C. rating for 1 sec - 20 KA)	Metre	5405
3.1.3	400 amps (S.C. rating for 1 sec - 25 KA)	Metre	6650
3.1.4	630 amps (S.C. rating for 1 sec - 45 KA)	Metre	7437
3.1.5	800 amps (S.C. rating for 1 sec - 50 KA)	Metre	8959
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 amps TPN	Each	5910
3.2.2	32 amps TPN	Each	6228
3.2.3	63 amps TPN	Each	6995
3.2.4	100 amps TPN	Each	8054
3.2.5	200 amps TPN	Each	12643
3.2.6	315 amps TPN	Each	13384
3.2.7	400 amps TPN	Each	13914
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 amps TPN, 2 way	Each	8848
3.3.2	16 amps TPN, 4 way	Each	16529
3.3.3	16 amps TPN, 6 way	Each	23431
3.3.4	16 amps TPN, 8 way	Each	32452
3.3.5	32 amps TPN, 2 way	Each	9113
3.3.6	32 amps TPN, 4 way	Each	18647

Item Code	Description	Unit	Rate ₹
3.3.7	32 amps TPN, 6 way	Each	24490
3.3.8	32 amps TPN, 8 way	Each	34041
3.3.9	63 amps TPN, 2 way	Each	10384
3.3.10	63 amps TPN, 4 way	Each	17588
3.3.11	63 amps TPN, 6 way	Each	18982
3.3.12	63 amps TPN, 8 way	Each	32664
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 amps TPN	Each	14854
3.4.2	300 amps TPN	Each	16316
3.4.3	400 amps TPN	Each	18074
3.4.4	600 amps TPN	Each	19565
3.4.5	800 amps TPN	Each	22031
3.5	Supplying, installation, including suspension, testing and commissioning of following capacity bus trunking with aluminium bus bars in 1.6mm thick 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 amps	Metre	8473
3.5.2	1000 amps	Metre	10009
3.5.3	1250 amps	Metre	12860
3.5.4	1400 amps	Metre	16038
3.5.5	1600 amps	Metre	16073
3.6	Supplying, installation, testing and commissioning of following capacity overhead distribution bus trunking with aluminium bus bars in 1.6mm thick 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 amps	Metre	4924
3.6.2	400 amps	Metre	6301
3.7	Supplying, installing, testing and commissioning of following capacity TPN tap off box / plug-in box made of 1.6mm thick sheet		

Item Code	Description	Unit	Rate ₹
	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 amps	Each	5350
3.7.2	63 amps	Each	6011
3.7.3	100 amps	Each	6919
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 made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars, 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 amps 15KA SC for 1 sec	Metre	5358
3.8.2	315 amps 25KA SC for 1 sec	Metre	5781
3.8.3	400 amps 30KA SC for 1 sec	Metre	6419
3.8.4	500 amps 35KA SC for 1 sec	Metre	7371
3.8.5	630 amps 50KA SC for 1 sec	Metre	8782
3.8.6	800 amps 50KA SC for 1 sec	Metre	12072
3.8.7	1000 amps 50KA SC for 1 sec	Metre	14038
3.8.8	1250 amps 50KA SC for 1 sec	Metre	16602
3.9	Supplying, installing on wall, 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 made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars, necessary joints, elbow 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		
3.9.1	200 amps 15KA SC for 1 sec	Metre	5870
3.9.2	315 amps 25KA SC for 1 sec	Metre	6645
3.9.3	400 amps 30KA SC for 1 sec	Metre	7035
3.9.4	500 amps 35KA SC for 1 sec	Metre	8080
3.9.5	630 amps 50KA SC for 1 sec	Metre	9630
3.9.6	800 amps 50KA SC for 1 sec	Metre	13053
3.9.7	1000 amps 50KA SC for 1 sec	Metre	15193
3.9.8	1250 amps 50KA SC for 1 sec	Metre	18232

Item Code	Description	Unit	Rate ₹
3.10	Supplying, installing suspension on 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 made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars, necessary joints, elbow 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, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required		
3.10.1	200 amps 15KA SC for 1 sec	Metre	5904
3.10.2	315 amps 25KA SC for 1 sec	Metre	6679
3.10.3	400 amps 30KA SC for 1 sec	Metre	7069
3.10.4	500 amps 35KA SC for 1 sec	Metre	8121
3.10.5	630 amps 50KA SC for 1 sec	Metre	9671
3.10.6	800 amps 50KA SC for 1 sec	Metre	13094
3.10.7	1000 amps 50KA SC for 1 sec	Metre	15252
3.10.8	1250 amps 50KA SC for 1 sec	Metre	18290
3.11	Supplying, installing, connecting to existing Air Insulated Compact Type bus trunking/ rising mains, testing and commissioning of following capacity End Feed Unit for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick steel sheet enclosure 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 amps 15KA SC for 1 sec	Each	3994
3.11.2	315 amps 25KA SC for 1 sec	Each	4159
3.11.3	400 amps 30KA SC for 1 sec	Each	5295
3.11.4	500 amps 35KA SC for 1 sec	Each	5542
3.11.5	630 amps 50KA SC for 1 sec	Each	6769
3.11.6	800 amps 50KA SC for 1 sec	Each	8457
3.11.7	1000 amps 50KA SC for 1 sec	Each	8951
3.11.8	1250 amps 50KA SC for 1 sec	Each	9445
3.12	Supplying, installing, connecting to existing Air Insulated Compact Type bus trunking/ rising mains, testing and commissioning of following capacity Plug In/ Tap Off Box for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with 1.6mm thick steel sheet enclosure duly powder coated with provision of MCCB (but without MCCB) complete etc. as required		
3.12.1	125 amps 15KA SC for 1 sec	Each	4611

Item Code	Description	Unit	Rate ₹
3.12.2	200 amps 25KA SC for 1 sec	Each	5846
3.12.3	250 amps 30KA SC for 1 sec	Each	7518
3.12.4	400 amps 35KA SC for 1 sec	Each	7518
3.12.5	500 amps 50KA SC for 1 sec	Each	10844
3.12.6	630 amps 50KA SC for 1 sec	Each	10844
3.13	Supplying, installing by suspension on ceiling, testing and commissioning of following capacity 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, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every metre, 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 amps 25KA SC for 1 sec	Metre	9503
3.13.2	500 amps 30KA SC for 1 sec	Metre	10340
3.13.3	630 amps 50KA SC for 1 sec	Metre	11166
3.13.4	800 amps 50KA SC for 1 sec	Metre	13542
3.13.5	1000 amps 50KA SC for 1 sec	Metre	15238
3.13.6	1250 amps 50KA SC for 1 sec	Metre	17361
3.13.7	1600 amps 50KA SC for 1 sec	Metre	21843
3.13.8	2000 amps 50KA SC for 1 sec	Metre	25653
3.13.9	2500 amps 50KA SC for 1 sec	Metre	34656
3.13.10	3200 amps 50KA SC for 1 sec	Metre	38849
3.13.11	4000 amps 50KA SC for 1 sec	Metre	49731

CHAPTER 4 - CABLE TRAYS

Item Code	Description	Unit	Rate ₹
4.1	Supplying and installing following size of perforated pre-painted 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	Metre	461
4.1.2	150 mm width X 50 mm depth X 1.6 mm thickness	Metre	520
4.1.3	200 mm width X 50 mm depth X 1.6 mm thickness	Metre	669
4.1.4	300 mm width X 50 mm depth X 1.6 mm thickness	Metre	789
4.1.5	375 mm width X 50 mm depth X 2.0 mm thickness	Metre	902
4.1.6	450 mm width X 50 mm depth X 2.0 mm thickness	Metre	1117
4.1.7	600 mm width X 50 mm depth X 2.0 mm thickness	Metre	1386
4.1.8	300 mm width X 62.5 mm depth X 2.0 mm thickness	Metre	878
4.1.9	375 mm width X 62.5 mm depth X 2.0 mm thickness	Metre	996
4.1.10	450 mm width X 62.5 mm depth X 2.0 mm thickness	Metre	1179
4.1.11	600 mm width X 62.5 mm depth X 2.0 mm thickness	Metre	1445
4.1.12	750 mm width X 62.5 mm depth X 2.0 mm thickness	Metre	1875
4.1.13	900 mm width X 62.5 mm depth X 2.0 mm thickness	Metre	2006
4.1.14	600 mm width X 75 mm depth X 2.0 mm thickness	Metre	1493
4.1.15	750 mm width X 75 mm depth X 2.0 mm thickness	Metre	1939
4.1.16	900 mm width X 75 mm depth X 2.0 mm thickness	Metre	2038
4.2	Supplying and installing following size of perforated pre-painted 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	Each	832
4.2.2	150 mm width X 50 mm depth X 1.6 mm thickness	Each	964
4.2.3	200 mm width X 50 mm depth X 1.6 mm thickness	Each	1207
4.2.4	300 mm width X 50 mm depth X 1.6 mm thickness	Each	1458
4.2.5	375 mm width X 50 mm depth X 2.0 mm thickness	Each	1829
4.2.6	450 mm width X 50 mm depth X 2.0 mm thickness	Each	2121
4.2.7	600 mm width X 50 mm depth X 2.0 mm thickness	Each	2653
4.2.8	300 mm width X 62.5 mm depth X 2.0 mm thickness	Each	1636

Item Code	Description	Unit	Rate ₹
4.2.9	375 mm width X 62.5 mm depth X 2.0 mm thickness	Each	1927
4.2.10	450 mm width X 62.5 mm depth X 2.0 mm thickness	Each	2240
4.2.11	600 mm width X 62.5 mm depth X 2.0 mm thickness	Each	2784
4.2.12	750 mm width X 62.5 mm depth X 2.0 mm thickness	Each	3265
4.2.13	900 mm width X 62.5 mm depth X 2.0 mm thickness	Each	3875
4.2.14	600 mm width X 75 mm depth X 2.0 mm thickness	Each	2869
4.2.15	750 mm width X 75 mm depth X 2.0 mm thickness	Each	3341
4.2.16	900 mm width X 75 mm depth X 2.0 mm thickness	Each	3936
4.3	Supplying and installing following size of perforated pre-painted M.S. cable trays reducers 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	Each	1143
4.3.2	150 mm width X 50 mm depth X 1.6 mm thickness	Each	1349
4.3.3	200 mm width X 50 mm depth X 1.6 mm thickness	Each	1711
4.3.4	300 mm width X 50 mm depth X 1.6 mm thickness	Each	2082
4.3.5	375 mm width X 50 mm depth X 2.0 mm thickness	Each	2624
4.3.6	450 mm width X 50 mm depth X 2.0 mm thickness	Each	3047
4.3.7	600 mm width X 50 mm depth X 2.0 mm thickness	Each	3828
4.3.8	300 mm width X 62.5 mm depth X 2.0 mm thickness	Each	2345
4.3.9	375 mm width X 62.5 mm depth X 2.0 mm thickness	Each	2762
4.3.10	450 mm width X 62.5 mm depth X 2.0 mm thickness	Each	3207
4.3.11	600 mm width X 62.5 mm depth X 2.0 mm thickness	Each	4000
4.3.12	750 mm width X 62.5 mm depth X 2.0 mm thickness	Each	4706
4.3.13	900 mm width X 62.5 mm depth X 2.0 mm thickness	Each	5601
4.3.14	600 mm width X 75 mm depth X 2.0 mm thickness	Each	4127
4.3.15	750 mm width X 75 mm depth X 2.0 mm thickness	Each	4822
4.3.16	900 mm width X 75 mm depth X 2.0 mm thickness	Each	5704
4.4	Supplying and installing following size of perforated pre-painted M.S. cable trays Tee's 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	Each	1457
4.4.2	150 mm width X 50 mm depth X 1.6 mm thickness	Each	1714
4.4.3	200 mm width X 50 mm depth X 1.6 mm thickness	Each	2214
4.4.4	300 mm width X 50 mm depth X 1.6 mm thickness	Each	2704

Item Code	Description	Unit	Rate ₹
4.4.5	375 mm width X 50 mm depth X 2.0 mm thickness	Each	3418
4.4.6	450 mm width X 50 mm depth X 2.0 mm thickness	Each	3973
4.4.7	600 mm width X 50 mm depth X 2.0 mm thickness	Each	5008
4.4.8	300 mm width X 62.5 mm depth X 2.0 mm thickness	Each	3056
4.4.9	375 mm width X 62.5 mm depth X 2.0 mm thickness	Each	3599
4.4.10	450 mm width X 62.5 mm depth X 2.0 mm thickness	Each	4173
4.4.11	600 mm width X 62.5 mm depth X 2.0 mm thickness	Each	5220
4.4.12	750 mm width X 62.5 mm depth X 2.0 mm thickness	Each	6155
4.4.13	900 mm width X 62.5 mm depth X 2.0 mm thickness	Each	7323
4.4.14	600 mm width X 75 mm depth X 2.0 mm thickness	Each	5388
4.4.15	750 mm width X 75 mm depth X 2.0 mm thickness	Each	6303
4.4.16	900 mm width X 75 mm depth X 2.0 mm thickness	Each	7471
4.5	Supplying and installing following size of perforated pre-painted M.S. cable trays cross members 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	Each	676
4.5.2	150 mm width X 50 mm depth X 1.6 mm thickness	Each	767
4.5.3	200 mm width X 50 mm depth X 1.6 mm thickness	Each	960
4.5.4	300 mm width X 50 mm depth X 1.6 mm thickness	Each	1148
4.5.5	375 mm width X 50 mm depth X 2.0 mm thickness	Each	1436
4.5.6	450 mm width X 50 mm depth X 2.0 mm thickness	Each	1664
4.5.7	600 mm width X 50 mm depth X 2.0 mm thickness	Each	2028
4.5.8	300 mm width X 62.5 mm depth X 2.0 mm thickness	Each	1283
4.5.9	375 mm width X 62.5 mm depth X 2.0 mm thickness	Each	1507
4.5.10	450 mm width X 62.5 mm depth X 2.0 mm thickness	Each	1754
4.5.11	600 mm width X 62.5 mm depth X 2.0 mm thickness	Each	2175
4.5.12	750 mm width X 62.5 mm depth X 2.0 mm thickness	Each	2543
4.5.13	900 mm width X 62.5 mm depth X 2.0 mm thickness	Each	3012
4.5.14	600 mm width X 75 mm depth X 2.0 mm thickness	Each	2237
4.5.15	750 mm width X 75 mm depth X 2.0 mm thickness	Each	2597
4.5.16	900 mm width X 75 mm depth X 2.0 mm thickness	Each	3051

CHAPTER 5 - EARTHING

Item Code	Description	Unit	Rate ₹
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.	Set	3007
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. with charcoal/ coke and salt as required.	Each	3926
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.	Set	3557
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.	Set	4490
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.	Set	8359
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.	Set	9292
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.	Metre	27
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)	Metre	753
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)	Metre	109
5.10	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe FRLSom earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	1082

Item Code	Description	Unit	Rate ₹
5.11	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe FRLSom earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	421
5.12	Providing and laying earth connection FRLSom earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe FRLSom earth electrode including connection with G.I. thimble excavation and re-filling as required.	Metre	151
5.13	Providing and laying earth connection FRLSom earth electrode with 4.00 mm dia copper wire in 15 mm dia G.I. pipe FRLSom earth electrode including connection with copper thimble excavation and re-filling as required.	Metre	213
5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	Metre	856
5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	142
5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	35
5.17	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	Metre	99
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.	Metre	23
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.	Metre	86
5.20	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	Metre	1599

CHAPTER 6 - LIGHTNING CONDUCTOR

Item Code	Description	Unit	Rate ₹
6.1	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, copper tube, having single prong at top, with 85 mm dia 3 mm thick copper base plate including holes etc. complete as required.	Each	764
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.	Each	369
6.3	Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.	Each	154
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.	Each	72
6.5	Providing and fixing copper tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	Metre	376
6.6	Providing and fixing copper tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)	Metre	406
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)	Metre	68
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)	Metre	98
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)	Metre	35
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)	Metre	72
6.11	Providing and fixing testing joint, made of 20 mm X 3 mm thick copper strip, 125 mm long, with 4 nos. of tinned brass bolts, nuts, chuck nuts and spring washers etc. complete as required.	Each	195
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.	Each	71
6.13	Providing and laying copper tape 32 mm X 6 mm from earth electrode directly in ground as required.	Metre	1122
6.14	Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	Metre	141
6.15	Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	Metre	33

CHAPTER 7 - MV CABLE LAYING

Item Code	Description	Unit	Rate ₹
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	Metre	195
7.1.2	Above 35 sq. mm and upto 95 sq. mm	Metre	202
7.1.3	Above 95 sq. mm and upto 185 sq. mm	Metre	210
7.1.4	Above 185 sq. mm and upto 400 sq. mm	Metre	233
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	Metre	133
7.2.2	Above 35 sq. mm and upto 95 sq. mm	Metre	141
7.2.3	Above 95 sq. mm and upto 185 sq. mm	Metre	149
7.2.4	Above 185 sq. mm and upto 400 sq. mm	Metre	171
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	Metre	87
7.3.2	Above 35 sq. mm and upto 95 sq. mm	Metre	95
7.3.3	Above 95 sq. mm and upto 185 sq. mm	Metre	102
7.3.4	Above 185 sq. mm and upto 400 sq. mm	Metre	125
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	Metre	55
7.4.2	Above 35 sq. mm and upto 95 sq. mm	Metre	62
7.4.3	Above 95 sq. mm and upto 185 sq. mm	Metre	70
7.4.4	Above 185 sq. mm and upto 400 sq. mm	Metre	93
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.		

Item Code	Description	Unit	Rate ₹
7.5.1	Upto 35 sq. mm	Metre	16
7.5.2	Above 35 sq. mm and upto 95 sq. mm	Metre	25
7.5.3	Above 95 sq. mm and upto 185 sq. mm	Metre	33
7.5.4	Above 185 sq. mm and upto 400 sq. mm	Metre	58
7.6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.		
7.6.1	Upto 35 sq. mm	Metre	12
7.6.2	Above 35 sq. mm and upto 95 sq. mm	Metre	20
7.6.3	Above 95 sq. mm and upto 185 sq. mm	Metre	27
7.6.4	Above 185 sq. mm and upto 400 sq. mm	Metre	50
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)	Metre	24
7.7.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre	70
7.7.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Metre	81
7.7.4	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	Metre	115
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)	Metre	20
7.8.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre	48
7.8.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Metre	59
7.8.4	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	Metre	91
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.	each	310
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.	each	288

CHAPTER 8 - HT CABLE LAYING

Item Code	Description	Unit	Rate ₹
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	Metre	255
8.1.2	Above 120 sq. mm and upto 400 sq. mm	Metre	278
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	Metre	174
8.2.2	Above 120 sq. mm and upto 400 sq. mm	Metre	197
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	Metre	34
8.3.2	Above 120 sq. mm and upto 400 sq. mm	Metre	59
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	Metre	28
8.4.2	Above 120 sq. mm and upto 400 sq. mm	Metre	50
8.5	Laying of one number 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	Metre	257
8.5.2	Above 120 sq. mm and upto 400 sq. mm	Metre	280
8.6	Laying of one number additional 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	Metre	177
8.6.2	Above 120 sq. mm and upto 400 sq. mm	Metre	199

Item Code	Description	Unit	Rate ₹
8.7	Laying of one number 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	Metre	36
8.7.2	Above 120 sq. mm and upto 400 sq. mm	Metre	61
8.8	Laying of one number 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	Metre	30
8.8.2	Above 120 sq. mm and upto 400 sq. mm	Metre	53

CHAPTER 9 - MV CABLE JOINTING & END TERMINATION

Item Code	Description	Unit	Rate ₹
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)	Each	147
9.1.2	2 X 10 sq. mm (19mm)	Each	148
9.1.3	2 X 16 sq. mm (22mm)	Each	160
9.1.4	2 X 25 sq. mm (22mm)	Each	161
9.1.5	2 X 35 sq. mm (25mm)	Each	210
9.1.6	2 X 50 sq. mm (28mm)	Each	264
9.1.7	3 X 10 sq. mm (22mm)	Each	161
9.1.8	3 X 16 sq. mm (25mm)	Each	192
9.1.9	3 X 25 sq. mm (25mm)	Each	195
9.1.10	3 X 35 sq. mm (28mm)	Each	264
9.1.11	3 X 50 sq. mm (32mm)	Each	266
9.1.12	3 X 70 sq. mm (35mm)	Each	349
9.1.13	3 X 95 sq. mm (38mm)	Each	415
9.1.14	3 X 120 sq. mm (45mm)	Each	473
9.1.15	3 X 150 sq. mm (50mm)	Each	564
9.1.16	3 X 185 sq. mm (57mm)	Each	772
9.1.17	3 X 225 sq. mm (62mm)	Each	927
9.1.18	3 X 240 sq. mm (62mm)	Each	953
9.1.19	3 X 300 sq. mm (70mm)	Each	1064
9.1.20	3½ X 25 sq. mm (28mm)	Each	247
9.1.21	3½ X 35 sq. mm (32mm)	Each	270
9.1.22	3½ X 50 sq. mm (35mm)	Each	342
9.1.23	3½ X 70 sq. mm (38mm)	Each	382
9.1.24	3½ X 95 sq. mm (45mm)	Each	466
9.1.25	3½ X 120 sq. mm (45mm)	Each	484
9.1.26	3½ X 150 sq. mm (50mm)	Each	576
9.1.27	3½ X 185 sq. mm (57mm)	Each	784

Item Code	Description	Unit	Rate ₹
9.1.28	3½ X 225 sq. mm (62mm)	Each	944
9.1.29	3½ X 240 sq. mm (62mm)	Each	969
9.1.30	3½ X 300 sq. mm (70mm)	Each	1086
9.1.31	3½ X 400 sq. mm (82mm)	Each	1369
9.1.32	4 X 10 sq. mm (25mm)	Each	193
9.1.33	4 X 16 sq. mm (28mm)	Each	245
9.1.34	4 X 25 sq. mm (28mm)	Each	248
9.1.35	4 X 35 sq. mm (32mm)	Each	271
9.1.36	4 X 50 sq. mm (35mm)	Each	346
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	Each	592
9.2.2	2 X 25 sq. mm	Each	638
9.2.3	2 X 35 sq. mm	Each	638
9.2.4	2 X 50 sq. mm	Each	638
9.2.5	3 X 16 sq. mm	Each	638
9.2.6	3 X 25 sq. mm	Each	638
9.2.7	3 X 35 sq. mm	Each	638
9.2.8	3 X 50 sq. mm	Each	681
9.2.9	3 X 70 sq. mm	Each	681
9.2.10	3 X 95 sq. mm	Each	813
9.2.11	3 X 120 sq. mm	Each	813
9.2.12	3 X 150 sq. mm	Each	813
9.2.13	3 X 185 sq. mm	Each	1087
9.2.14	3 X 225 sq. mm	Each	1087
9.2.15	3 X 240 sq. mm	Each	1257
9.2.16	3 X 300 sq. mm	Each	1257
9.2.17	3½ X 25 sq. mm	Each	638
9.2.18	3½ X 35 sq. mm	Each	681
9.2.19	3½ X 50 sq. mm	Each	681
9.2.20	3½ X 70 sq. mm	Each	746
9.2.21	3½ X 95 sq. mm	Each	813

Item Code	Description	Unit	Rate ₹
9.2.22	3½ X 120 sq. mm	Each	813
9.2.23	3½ X 150 sq. mm	Each	1087
9.2.24	3½ X 185 sq. mm	Each	1087
9.2.25	3½ X 225 sq. mm	Each	1257
9.2.26	3½ X 240 sq. mm	Each	1257
9.2.27	3½ X 300 sq. mm	Each	1399
9.2.28	3½ X 400 sq. mm	Each	1599
9.2.29	4 X 16 sq. mm	Each	638
9.2.30	4 X 25 sq. mm	Each	638
9.2.31	4 X 35 sq. mm	Each	681
9.2.32	4 X 50 sq. mm	Each	681
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	Each	1220
9.3.2	2 X 25 sq. mm	Each	1220
9.3.3	2 X 35 sq. mm	Each	1220
9.3.4	2 X 50 sq. mm	Each	1390
9.3.5	3 X 16 sq. mm	Each	1390
9.3.6	3 X 25 sq. mm	Each	1220
9.3.7	3 X 35 sq. mm	Each	1220
9.3.8	3 X 50 sq. mm	Each	1390
9.3.9	3 X 70 sq. mm	Each	1622
9.3.10	3 X 95 sq. mm	Each	1727
9.3.11	3 X 120 sq. mm	Each	1936
9.3.12	3 X 150 sq. mm	Each	1936
9.3.13	3 X 185 sq. mm	Each	2298
9.3.14	3 X 225 sq. mm	Each	2599
9.3.15	3 X 240 sq. mm	Each	2599
9.3.16	3 X 300 sq. mm	Each	3343
9.3.17	3½ X 25 sq. mm	Each	1390
9.3.18	3½ X 35 sq. mm	Each	1390
9.3.19	3½ X 50 sq. mm	Each	1622

Item Code	Description	Unit	Rate ₹
9.3.20	3½ X 70 sq. mm	Each	1636
9.3.21	3½ X 95 sq. mm	Each	1936
9.3.22	3½ X 120 sq. mm	Each	2298
9.3.23	3½ X 150 sq. mm	Each	2298
9.3.24	3½ X 185 sq. mm	Each	2599
9.3.25	3½ X 225 sq. mm	Each	2645
9.3.26	3½ X 240 sq. mm	Each	3200
9.3.27	3½ X 300 sq. mm	Each	3921
9.3.28	3½ X 400 sq. mm	Each	2299
9.3.29	4 X 16 sq. mm	Each	1220
9.3.30	4 X 25 sq. mm	Each	1390
9.3.31	4 X 35 sq. mm	Each	1390
9.3.32	4 X 50 sq. mm	Each	1622
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	Each	1220
9.4.2	2 X 25 sq. mm	Each	1220
9.4.3	2 X 35 sq. mm	Each	1220
9.4.4	2 X 50 sq. mm	Each	1390
9.4.5	3 X 16 sq. mm	Each	1220
9.4.6	3 X 25 sq. mm	Each	1220
9.4.7	3 X 35 sq. mm	Each	1390
9.4.8	3 X 50 sq. mm	Each	1390
9.4.9	3 X 70 sq. mm	Each	1660
9.4.10	3 X 95 sq. mm	Each	1936
9.4.11	3 X 120 sq. mm	Each	1936
9.4.12	3 X 150 sq. mm	Each	1936
9.4.13	3 X 185 sq. mm	Each	2298
9.4.14	3 X 225 sq. mm	Each	2599
9.4.15	3 X 240 sq. mm	Each	2645
9.4.16	3 X 300 sq. mm	Each	3343
9.4.17	3½ X 25 sq. mm	Each	1390

Item Code	Description	Unit	Rate ₹
9.4.18	3½ X 35 sq. mm	Each	1390
9.4.19	3½ X 50 sq. mm	Each	1622
9.4.20	3½ X 70 sq. mm	Each	1660
9.4.21	3½ X 95 sq. mm	Each	1936
9.4.22	3½ X 120 sq. mm	Each	2298
9.4.23	3½ X 150 sq. mm	Each	2298
9.4.24	3½ X 185 sq. mm	Each	2599
9.4.25	3½ X 225 sq. mm	Each	2599
9.4.26	3½ X 240 sq. mm	Each	2645
9.4.27	3½ X 300 sq. mm	Each	3343
9.4.28	3½ X 400 sq. mm	Each	4738
9.4.29	4 X 16 sq. mm	Each	1220
9.4.30	4 X 25 sq. mm	Each	1390
9.4.31	4 X 35 sq. mm	Each	1390
9.4.32	4 X 50 sq. mm	Each	1622

CHAPTER 10 - HV CABLE JOINTING & END TERMINATION

Item Code	Description	Unit	Rate ₹
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	Each	1028
10.1.2	120 sq. mm	Each	1279
10.1.3	240 sq. mm	Each	1726
10.1.4	300 sq. mm	Each	1759
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	Each	2504
10.2.2	120 sq. mm	Each	2783
10.2.3	240 sq. mm	Each	3230
10.2.4	300 sq. mm	Each	3230
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	Each	2305
10.3.2	120 sq. mm	Each	2640
10.3.3	240 sq. mm	Each	3954
10.3.4	300 sq. mm	Each	4531
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	Each	4617
10.4.2	120 sq. mm	Each	4868
10.4.3	240 sq. mm	Each	6357
10.4.4	300 sq. mm	Each	6357
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	Each	7934

Item Code	Description	Unit	Rate ₹
10.5.2	120 sq. mm	Each	8185
10.5.3	240 sq. mm	Each	9364
10.5.4	300 sq. mm	Each	9364
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	Each	9170
10.6.2	120 sq. mm	Each	9875
10.6.3	240 sq. mm	Each	10540
10.6.4	300 sq. mm	Each	10540
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	Each	10319
10.7.2	120 sq. mm	Each	14203
10.7.3	240 sq. mm	Each	15418
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	Each	15429
10.8.2	120 sq. mm	Each	18697
10.8.3	240 sq. mm	Each	21124
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	Each	24261
10.9.2	120 sq. mm	Each	30831
10.9.3	240 sq. mm	Each	43080

CHAPTER 11 - POLE ERECTION

Item Code	Description	Unit	Rate ₹
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	Each	2627
11.1.2	Above 6.5 metre and upto 8.0 metre	Each	2924
11.1.3	Above 8.0 metre and upto 11.0 metre	Each	3493
11.1.4	Above 11.00 metre and upto 13.00 metre	Each	3847
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.	Each	4448
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	Each	2539
11.3.2	Above 6.5 metre and upto 8.0 metre	Each	3069
11.3.3	Above 8.0 metre and upto 10.0 metre	Each	3643
11.3.4	Above 10.00 metre and upto 12.00 metre	Each	4270
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.	Each	4318
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)	Cum	4556
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	Metre	285
11.6.2	40 mm dia	Metre	325

CHAPTER 12 - MV OVER HEAD LINE WORK

Item Code	Description	Unit	Rate ₹
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.	Each	3613
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.	Each	3468
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.	Each	3406
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.	Each	3255
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.	Each	3938
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		

Item Code	Description	Unit	Rate ₹
	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.	Each	3787
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.	Each	3732
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.	Each	3580
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.	Each	2225
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 .	Set	480
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 .	Set	818
12.12	Erection of angle iron/ channel iron cross arm on wood/ RCC/ PCC/ steel tubular/ rail pole etc. as required.	Set	134
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.	Set	197
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.	Set	227
12.15	Erection of galvanised 'D' iron clamps and insulator on pole as required.	Set	33

Item Code	Description	Unit	Rate ₹
12.16	Supplying and erection of 75 mm X 90 mm shackle insulator with G. I. Bolt, nuts and straps etc. as required .	Set	142
12.17	Supplying and erection of 100 mm X 110 mm shackle insulator with G. I. Bolt, nuts and straps etc. as required .	Set	172
12.18	Supplying and erection of 100 mm X 65 mm pin insulator complete with G. I. Spindle and nuts etc. as required .	Set	76
12.19	Supplying and erection of 100 mm X 80 mm pin insulator complete with G. I. Spindle and nuts etc. as required .	Set	78
12.20	Erection of LV/MV shackle/pin insulator etc. as required.	Set	36
12.21	Erection of ACSR conductor of 7/2.11 mm to 7/3.00 mm diameter including binding etc. as required.	Kg	88
12.22	Erection of ACSR conductor of 7/3.35 mm to 7/4.00 diameter and above including binding etc. as required.	Kg	116
12.23	Erection of all aluminium conductor of 7/1.96 mm to 7/3.10 mm diameter including binding etc. as required.	Kg	116
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.	Kg	89
12.25	Erection of G.I. Wire No. 8 SWG including binding etc. as required.	Kg	18
12.26	Erection of hexagonal type guard as required.	Each	96
12.27	Erection of ring type guard as required.	Each	32
12.28	Erection of cradle guard as required.	Each	64
12.29	Supplying and erection of 15 A aerial fuse complete as required.	Each	67
12.30	Supplying and erection of 30 A aerial fuse complete as required.	Each	78
12.31	Erection of aerial fuse as required.	Each	49
12.32	Supplying and fixing MV horn gap lightening arrester as required.	Each	188
12.33	Fixing of MV lightning arrester as required.	Each	73
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.	Each	821
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.	Each	1810
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		

Item Code	Description	Unit	Rate ₹
	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.	Each	2854
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.	Each	1409
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.	Each	2017
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.	Each	2671
12.40	Dismantling of over head lines comprising of copper/ aluminium over head conductor, G.I. wire, cross arms, insulators etc. as required.	Kg	38
12.41	Dismantling of pole/ street light standard/ strut embedded in brick ballast foundation etc. as required.	Each	871
12.42	Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required.	Each	1158

CHAPTER 13 - HV OVER HEAD LINE WORK

Item Code	Description	Unit	Rate ₹
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.	Set	3673
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.	Each	339
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.	Each	364
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.	Each	1540
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.	Each	1239
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.	Set	243
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.	Set	3275

Item Code	Description	Unit	Rate ₹
13.8	Supplying and erection of a set of cross bracing FRL Same 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.	Set	4612
13.9	Erection of double pole 3 wire cross arm for 11KV/ 22KV/ 33 KV over head lines as required.	Each	558
13.10	Supplying and erection of 11 KV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.	Set	382
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.	Set	1138
13.12	Erection of disc/ pin insulator for 11 KV over head lines as required.	Set	73
13.13	Supplying and erection of three piece nonlinear resistor type lightning arrester 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.	Set	5436
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.	Set	3699
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.	Each	359
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.	Each	1945
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.	Each	1425

Item Code	Description	Unit	Rate ₹
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.	Each	444
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 .	Each	2414
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 .	Each	1779
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 .	Set	4457
13.22	Supplying and erection of a set of cross bracing FRL Same 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 .	Set	6853
13.23	Supplying and erection of 33 KV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.	Set	1114
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.	Set	3357
13.25	Supplying and erection of single piece nonlinear resistor type lightning arrester 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.	Set	39742

CHAPTER 14 - MISC.CIVIL ITEMS

Item Code	Description	Unit	Rate ₹
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.	Cum	172
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.	Cum	174
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.	Cum	111
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.	Cum	285
14.5	Deduct for not consolidation by ramming and watering while re-filling with sand and or good soil in cable/ pipe laying.	Cum	63
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.	Cum	528
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.	Cum	5070
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.	Cum	4551
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.	Cum	4387
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).	Cum	5320

Item Code	Description	Unit	Rate ₹
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.	Cum	3959
14.12	Providing 15mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels.	Sqm	176
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	Metre	450
14.13.2	80 mm dia	Metre	697
14.13.3	100 mm dia	Metre	983
14.13.4	150 mm dia	Metre	1514
14.14	Providing, laying and fixing following dia RCC pipe NP 2 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	Metre	337
14.14.2	150 mm dia	Metre	384
14.14.3	250 mm dia	Metre	455
14.14.4	300 mm dia	Metre	566

CHAPTER 15 - LIGHTING CONTROLS

Item Code	Description	Unit	Rate ₹
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 10 Amp , 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.	Each	3173
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 10 Amp , 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.	Each	4447
15.3	Supplying, installation, testing and commissioning of Microwave technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10 Amp , 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.	Each	6080
15.4	Supplying, installation, testing and commissioning of Astronomical time switch of following configuration to be mounted 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 modes) 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	Each	2546
15.4.2	2 output per phase and suitable for single phase supply	Each	5309
15.4.3	3 output (1 output per phase) and suitable for three phase supply	Each	6234

CHAPTER 16 - HVAC (ONLY PLUMBING, DUCTING & AHU)

Item Code	Description	Unit	Rate ₹
PLUMBING			
INSULATED CHILLED WATER PIPING (resin bonded fiber glass glass 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 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	400mm dia. (75mm insulation)	Metre	10237
16.1.2	350mm dia. (75mm insulation)	Metre	7047
16.1.3	300mm dia. (75mm insulation)	Metre	6282
16.1.4	250mm dia. (75mm insulation)	Metre	5309
16.1.5	200mm dia. (75mm insulation)	Metre	4419
16.1.6	150mm dia. (50mm insulation)	Metre	2884
16.1.7	125mm dia. (50mm insulation)	Metre	2452
16.1.8	100mm dia. (50mm insulation)	Metre	2118
16.1.9	80mm dia. (50mm insulation)	Metre	1595
16.1.10	65mm dia. (50mm insulation)	Metre	1374
16.1.11	50mm dia. (50mm insulation)	Metre	1130
16.1.12	40mm dia. (50mm insulation)	Metre	954
16.1.13	32mm dia. (50mm insulation)	Metre	842
16.1.14	25mm dia. (50mm insulation)	Metre	749
INSULATED CHILLED WATER PIPING (Nitrile Rubber Insulation)			
16.2	Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with		

Item Code	Description	Unit	Rate ₹
	necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with following closed cell elastometric nitrile rubber of class 'O' insulation applied by adhesive conforming to standard specifications 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 complete in all respect.		
	Note:- The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.		
16.2.1	400mm dia. (32 mm thick insulation)	Metre	9268
16.2.2	350mm dia. (32 mm thick insulation)	Metre	6151
16.2.3	300mm dia. (32 mm thick insulation)	Metre	5564
16.2.4	250mm dia. (32 mm thick insulation)	Metre	4805
16.2.5	200mm dia. (32 mm thick insulation)	Metre	3858
16.2.6	150mm dia. (32 mm thick insulation)	Metre	2733
16.2.7	125mm dia. (32 mm thick insulation)	Metre	2409
16.2.8	100mm dia. (32 mm thick insulation)	Metre	1980
16.2.9	80mm dia. (32 mm thick insulation)	Metre	1458
16.2.10	65mm dia. (32 mm thick insulation)	Metre	1201
16.2.11	50mm dia. (32 mm thick insulation)	Metre	1034
16.2.12	40mm dia. (32 mm thick insulation)	Metre	843
16.2.13	32mm dia. (19 mm thick insulation)	Metre	666
16.2.14	25mm dia. (19 mm thick insulation)	Metre	559
	INSULATED 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.		

Item Code	Description	Unit	Rate ₹
	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	400mm dia. (75 mm insulation)	Metre	9425
16.3.2	350mm dia. (75 mm insulation)	Metre	6302
16.3.3	300mm dia. (75 mm insulation)	Metre	5737
16.3.4	250mm dia. (75 mm insulation)	Metre	4866
16.3.5	200mm dia. (75 mm insulation)	Metre	4060
16.3.6	150mm dia. (75mm insulation)	Metre	2725
16.3.7	125mm dia. (50mm insulation)	Metre	2283
16.3.8	100mm dia. (50mm insulation)	Metre	1936
16.3.9	80mm dia. (50mm insulation)	Metre	1512
16.3.10	65mm dia. (50mm insulation)	Metre	1306
16.3.11	50mm dia. (50mm insulation)	Metre	1077
16.3.12	40mm dia. (50mm insulation)	Metre	911
16.3.13	32mm dia. (50mm insulation)	Metre	807
16.3.14	25mm dia. (50mm insulation)	Metre	722
	INSULATION ON EXISTING PIPE		
16.4	Supplying, laying/ fixing of following thickness resin bonded fiber glass pipe section insulation having density 80 kg/cum 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	65mm	Per sqm	2013
16.4.2	50mm	Per sqm	1759
16.4.3	40mm	Per sqm	1660
16.4.4	25mm	Per sqm	1414
16.5	Supplying, laying/ fixing of following thickness closed cell elastometric nitrile rubber of class 'O' applied by adhesive conforming to standard specifications 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 complete in all respect.		
16.5.1	32mm	Per sqm	1392
16.5.2	19mm	Per sqm	1017

Item Code	Description	Unit	Rate ₹
16.6	Supplying, laying/ fixing 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) at joints repairing etc. as per specifications and as required complete in all respect.		
16.6.1	75mm	Per sqm	1487
16.6.2	50mm	Per sqm	1112
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	200 mm dia	Nos.	10982
16.7.1.2	150mm dia.	Nos.	6499
16.7.1.3	125mm dia.	Nos.	5654
16.7.1.4	100mm dia.	Nos.	5205
16.7.1.5	80mm dia.	Nos.	3638
16.7.1.6	65mm dia.	Nos.	3269
16.7.1.7	50mm dia.	Nos.	2978
16.7.1.8	40mm dia.	Nos.	2629
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	200mm dia	Nos.	48655
16.7.2.2	150mm dia.	Nos.	27028
16.7.2.3	125mm dia.	Nos.	18608
16.7.2.4	100mm dia.	Nos.	11839
16.7.2.5	80mm dia.	Nos.	7318
16.7.2.6	65 mm dia	Nos.	7024
16.7.2.7	50mm dia.	Nos.	6317
16.7.2.8	40 mm dia	Nos.	3119

Item Code	Description	Unit	Rate ₹
16.7.3	NON - RETURN VALVE with dual 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	200 mm dia	Nos.	9530
16.7.3.2	150mm dia.	Nos.	6354
16.7.3.3	125mm dia.	Nos.	5046
16.7.3.4	100mm dia	Nos.	3776
16.7.3.5	80mm dia.	Nos.	2728
16.7.3.6	65mm dia	Nos.	2361
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	200mm dia	Nos.	20741
16.7.4.2	150mm dia.	Nos.	10418
16.7.4.3	125mm dia.	Nos.	9880
16.7.4.4	100mm dia	Nos.	6806
16.7.4.5	80mm dia	Nos.	4948
16.7.4.6	65mm dia.	Nos.	4746
16.7.4.7	50mm dia.	Nos.	3446
16.7.4.8	40mm dia.	Nos.	2423
16.8	Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required	Nos.	958
16.9	Providing & fixing in position the mercury in glass industrial type thermometers.	Nos.	688
16.10	CONDENSER WATER PIPE		
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	300mm dia.	Metre	4140
16.10.1.2	250mm dia	Metre	3485

Item Code	Description	Unit	Rate ₹
16.10.1.3	200mm dia.	Metre	2875
16.10.1.4	150mm dia.	Metre	1942
16.10.1.5	125mm dia.	Metre	1671
16.10.1.6	100mm dia.	Metre	1399
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	200mm dia.	Nos.	10199
16.11.1.2	150mm dia.	Nos.	5845
16.11.1.3	125mm dia.	Nos.	5068
16.11.1.4	100mm dia.	Nos.	4615
16.11.1.5	80mm dia.	Nos.	3256
16.11.1.6	65mm dia.	Nos.	2921
16.11.1.7	50mm dia.	Nos.	2634
16.11.1.8	40mm dia.	Nos.	2329
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	200mm dia.	Nos.	8740
16.11.2.2	150mm dia.	Nos.	5705
16.11.2.3	125mm dia.	Nos.	4484
16.11.2.4	100mm dia.	Nos.	3257
16.11.2.5	80mm dia.	Nos.	2345
16.11.2.6	65mm dia.	Nos.	2011
DUCTING, GRILLS, DIFFUSER AND INSULATION			
16.12.1	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.		
16.12.1.1	Thickness 0.63 mm sheet	Sqmtr	725
16.12.1.2	Thickness 0.80 mm sheet	Sqmtr	890
16.12.1.3	Thickness 1.00 mm sheet	Sqmtr	1004
16.12.1.4	Thickness 1.25 mm sheet	Sqmtr	1257

Item Code	Description	Unit	Rate ₹
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	Thickness 0.63 mm sheet	Sqmtr	605
16.12.2.2	Thickness 0.80 mm sheet	Sqmtr	728
16.12.2.3	Thickness 1.00 mm sheet	Sqmtr	949
16.12.2.4	Thickness 1.25 mm sheet	Sqmtr	1072
16.13	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.	Sqmtr	5413
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	Damper	Sqmtr	6168
16.14.2	Actuator	Nos.	5342
16.15	Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications.	Sqmtr	7107
16.16	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.	Sqmtr	4040
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.	Sqmtr	8661
16.18	Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	Sqmtr	5594
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	200 mm dia.	Metre	376
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		

Item Code	Description	Unit	Rate ₹
	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	Sqmtr	7053
16.20.2	Actuator	Nos.	6551
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/m ³ , 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.	Sqmtr	543
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 25 X 50 X50 X 50 X 25 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.	Sqmtr	864
16.23	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 two coats of cold setting adhesive (CPR X compound). The joints shall sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.		
16.23.1	19mm	Sqmtr	816
16.23.2	25mm	Sqmtr	1029
16.24	Supplying and fixing 50 mm thick aluminium foil faced resin bonded fibre glass insulation (on duct) of density 24 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).	Sqmtr	368
16.25	Supplying and fixing 50mm thick aluminium foil faced resin bonded fibre glass insulation (on duct) of density 24 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)	Sqmtr	427

Item Code	Description	Unit	Rate ₹
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 suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.) and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.		
16.26.1	2500CFM	Set	75410
16.26.2	3000CFM	Set	88718
16.26.3	4000CFM	Set	100009
16.26.4	5000CFM	Set	124770
16.26.5	6000CFM	Set	145901
16.26.6	7000CFM	Set	163967
16.26.7	8000CFM	Set	182033
16.26.8	9000CFM	Set	199212
16.26.9	10000CFM	Set	216391
16.26.10	11000CFM	Set	237683
16.26.11	12000CFM	Set	258976
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 suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply, drain connections,		

Item Code	Description	Unit	Rate ₹
	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	2500CFM	Set	68232
16.27.2	3000CFM	Set	80088
16.27.3	4000CFM	Set	89363
16.27.4	5000CFM	Set	110575
16.27.5	6000CFM	Set	129447
16.27.6	7000CFM	Set	144812
16.27.7	8000CFM	Set	160176
16.27.8	9000CFM	Set	174573
16.27.9	10000CFM	Set	188969
16.27.10	11000CFM	Set	204858
16.27.11	12000CFM	Set	226150

APPENDIX- I**BASIC RATE OF LABOUR & HIRE CHARGES**

Item Code	Description	Unit	Rate ₹
1001	Wireman	day	399
1002	Cable jointer	day	399
1003	Lineman	day	399
1004	Fitter, Grade 1	day	399
1005	Fitter, Grade 2	day	363
1006	Painter	day	363
1007	Khallas	day	329
1008	Carpenter, Grade 1	day	399
1009	Blacksmith, Grade 2	day	363
1010	Mason, Grade 2	day	363
1011	Stone Chiseler	day	363
1012	Beldar/ coolie	day	329
1013	Bhisti	day	329
1014	Excavator	day	329
1015	Stone Breaker	day	363
1016	Mate	day	329
1081	Hire charges for 5 ton truck	day	2100
1082	Hire charges for compressor and spray gun	day	300
1083	Drilling of 46 Nos 12 mm dia holes on G.I. pipe	L.S.	270
1084	Drilling holes	each	5.5
1085	Solder jointing	each	11
1086	Welding charges	mm	0.45
1087	Welder	day	399

BASIC RATE OF MATERIAL

Item Code	Description	Unit	Rate ₹
1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	11.10
1102	2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	17.84
1103	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	26.18
1104	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	38.87
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	66.43
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	102.36
1108	16/0.20 mm (0.5 sqmm) twin core FRLS PVC sheathed, flat flexible copper cable	metre	11.52
1109	16/0.20 mm (0.5 sqmm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	metre	11.52
1110	32/0.20 mm (1.0 sqmm) twin circular, FRLS PVC sheathed, workshop flexible copper cable	metre	19.08
1111	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	metre	4.71
1112	2 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	metre	7.94
1113	4 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	metre	15.30
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	15.67
CONDUIT (STEEL & PVC) AND ACCESSORIES			
1201	20 mm dia. ISI marked, steel conduit	metre	60.01
1202	25 mm dia. ISI marked, steel conduit	metre	75.60
1203	32 mm dia. ISI marked, steel conduit	metre	113.40
1204	40 mm dia. ISI marked, steel conduit	metre	184.28
1205	50 mm dia. ISI marked, steel conduit	metre	259.88
1206	20 mm inspection/ solid bends	each	7.61
1207	25 mm inspection/ solid bends	each	13.39
1208	32 mm inspection/ solid bends	each	25.20

Item Code	Description	Unit	Rate ₹
1209	40 mm inspection/ solid bends	each	34.13
1210	50 mm inspection/ solid bends	each	49.88
1211	20 mm sockets	each	6.93
1212	25 mm sockets	each	7.56
1213	32 mm sockets	each	9.77
1214	40 mm sockets	each	13.86
1215	50 mm sockets	each	22.05
1216	20 mm junction box, one way	each	22.05
1217	20 mm junction box, two way	each	22.05
1218	20 mm iron staples/ saddles/ screws	each	1.60
1219	25 mm iron staples/ saddles/ screws	each	2.19
1220	32 mm iron staples/ saddles/ screws	each	3.34
1221	40 mm iron staples/ saddles/ screws	each	4.31
1222	50 mm iron staples/ saddles/ screws	each	5.71
1224	20 mm dia. ISI marked, PVC conduit	metre	11.81
1225	25 mm dia. ISI marked, PVC conduit	metre	20.32
1226	32 mm dia. ISI marked, PVC conduit	metre	33.59
1227	40 mm dia. ISI marked, PVC conduit	metre	47.37
1228	50 mm dia. ISI marked, PVC conduit	metre	71.35
1229	20 mm PVC bends	each	5.65
1230	25 mm PVC bends	each	7.70
1231	32 mm PVC bends	each	13.16
1232	40 mm PVC bends	each	20.98
1233	50 mm PVC bends	each	34.07
1234	20 mm PVC couplers	each	3.50
1235	25 mm PVC couplers	each	5.24
1236	32 mm PVC couplers	each	8.55
1237	40 mm PVC couplers	each	10.44
1238	50 mm PVC couplers	each	13.06
1239	20 mm PVC junction box, one way	each	15.45
1240	20 mm PVC junction box, two way	each	15.99
1241	75 mm X 75 mm X 50 mm PVC box	each	19.00
METAL BOXES			
1300	Modular GI box for 2 module	each	28.00
1301	Modular GI box for 3 module	each	29.60

Item Code	Description	Unit	Rate ₹
1302	Modular GI box for 4 module	each	38.40
1303	Modular GI box for 6 module	each	62.00
1304	Modular GI box for 8 module	each	74.00
1305	Modular GI box for 12 module	each	102.00
1306	75 mm X 75 mm X 60 mm deep metal box	each	20.21
1307	100 mm X 100 mm X 60 mm deep metal box	each	30.71
1308	150 mm X 75 mm X 60 mm deep metal box	each	32.55
1309	150 mm X 150 mm X 60 mm deep metal box	each	46.68
1310	180 mm X 100 mm X 60 mm deep metal box	each	39.31
1311	200 mm X 125 mm X 60 mm deep metal box	each	49.14
1312	200 mm X 150 mm X 60 mm deep metal box	each	61.43
1313	200 mm X 250 mm X 60 mm deep metal box	each	79.85
1314	200 mm X 300 mm X 60 mm deep metal box	each	110.57
1315	250 mm X 300 mm X 60 mm deep metal box	each	122.85
1316	200 mm X 150 mm X 75 mm deep metal box	each	67.57
1317	200 mm X 250 mm X 75 mm deep metal box	each	92.14
1318	200 mm X 150 mm X 100 mm deep metal box	each	81.08
1319	200 mm X 250 mm X 100 mm deep metal box	each	104.42
1320	200 mm X 300 mm X 100 mm deep metal box	each	122.85
1321	250 mm X 300 mm X 100 mm deep metal box	each	153.56

WIRING SWITCHES AND ACCESSORIES

1322	3 mm thick phenolic laminated sheet	sqcm	0.10
1401	Ceiling rose, 3 pin, 5 amps ISI marked	each	14.40
1402	S.P. 5/6 amps, one way modular switch, ISI marked	each	48.00
1403	S.P. 5/6 amps, two way modular switch, ISI marked	each	60.80
1404	S.P. 15/16 amps, one way modular switch, ISI marked	each	73.60
1405	3 pin 5/6 amps modular socket outlet, ISI marked	each	53.60
1406	6 pin 15/16 amps modular socket outlet, ISI marked	each	107.60
1407	Modular bell push, ISI marked	each	73.60
1408	Stepped type Modular Fan regulator (2 module)	each	216.00
1409	Telephone Socket outlet modular type	each	60.00
1410	T.V. Socket outlet modular type	each	59.20
1411	Modular blanking plate	each	12.80
1420	Modular base & cover plate for 1 module	each	38.80
1421	Modular base & cover plate for 2 module	each	39.60

Item Code	Description	Unit	Rate ₹
1422	Modular base & cover plate for 3 module	each	46.40
1423	Modular base & cover plate for 4 module	each	54.80
1424	Modular base & cover plate for 6 module	each	76.40
1425	Modular base & cover plate for 8 module	each	97.60
1426	Modular base & cover plate for 12 module	each	110.40
1431	S.P. 5/6 amps, one way switch, piano type ISI marked	each	13.99
1432	S.P. 5/6 amps, two way switch, piano type ISI marked	each	17.37
1433	S.P. 15/16 amps, one way switch, piano type ISI marked	each	40.00
1434	3 pin 5/6 amps socket outlet, piano type ISI marked	each	20.26
1435	6 pin 15/16 & 5/6 amps socket outlet, piano type ISI marked	each	50.00
1436	Bell push, piano type	each	15.91
1437	Telephone Socket outlet piano type	each	23.15
1438	T.V. Socket outlet piano type	each	17.37
1441	Brass pendant holder	each	28.00
1442	Brass batten/ angle holder	each	33.14
1443	Brass bracket holder 16 mm	each	39.90
1444	Call bell/ buzzer, single phase	each	37.15
1445	PIR Occupancy sensor	each	2587.50
1446	PIR Occupancy sensor With Day light dimming	each	3684.37
1447	Microwave occupancy Sensor	each	5090.62
1448	Astronomical time switch suitable for 1 output per phase and suitable for single phase supply	each	2047.50
1449	Astronomical time switch suitable for 2 output per phase and suitable for single phase supply	each	4426.50
1450	Astronomical time switch suitable for 3 output (1 output per phase) and suitable for three phase supply	each	5222.75
1451	UTP 4 Pair CAT 6 LAN Cable	metre	20.77
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
1505	800 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	metre	7421.75

Item Code	Description	Unit	Rate ₹
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	14136.66
1513	16 amps. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	20064.95
1514	16 amps. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	27817.31
1515	32 amps. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	7752.37
1516	32 amps. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	15960.76
1517	32 amps. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	20976.99
1518	32 amps. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	29185.38
1519	63 amps. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	8846.82
1520	63 amps. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	15048.72
1521	63 amps. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	16234.37
1522	63 amps. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	28000.00
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	12586.19
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	13680.65
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	15048.72
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	16234.37
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	18058.46
1531	800 amps. TPN, bus trunking with aluminium busbars	metre	7068.34
1532	1000 amps. TPN, bus trunking with aluminium busbars	metre	8390.80

Item Code	Description	Unit	Rate ₹
1533	1250 amps. TPN, bus trunking with aluminium busbars	metre	10762.11
1534	1400 amps. TPN, bus trunking with aluminium busbars	metre	13498.24
1535	1600 amps. TPN, bus trunking with aluminium busbars	metre	13498.24
1536	200 amps. TPN, overhead busbars with aluminium busbars	metre	4013.00
1537	400 amps. TPN, overhead busbars with aluminium busbars	metre	5198.64
1538	32 amps. TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	4534.16
1539	63 amps. TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	5081.38
1540	100 amps. TPN, plug-in-box with TPN disconnecter FSU and ISI marked HRC fuses for overhead busbars	each	5863.14
1541	16 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	5016.24
1542	32 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	5289.85
1543	63 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	5928.28
1544	100 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	6840.32
1545	200 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	10762.11
1546	315 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	11400.54
1547	400 amps. TPN, one way, tap off box with TPN disconnecter FSU and ISI marked HRC fuses for rising mains	each	11856.56
1551	200 amps. TPN, compact type rising mains with aluminium busbar including all accessories	metre	4407.53
1552	315 amps. TPN, compact type rising mains with aluminium busbar including all accessories	metre	4772.54
1553	400 amps. TPN, compact type rising mains with aluminium busbar including all accessories	metre	5304.11
1554	500 amps. TPN, compact type rising mains with aluminium busbar including all accessories	metre	6105.88
1555	630 amps. TPN, compact type rising mains with aluminium busbar including all accessories	metre	7302.78
1556	800 amps. TPN, compact type rising mains with aluminium busbar including all accessories	metre	10135.13
1557	1000 amps. TPN, compact type rising mains with aluminium busbar including all accessories	metre	11828.15
1558	1250 amps. TPN, compact type rising mains with aluminium busbar including all accessories	metre	14035.01

Item Code	Description	Unit	Rate ₹
1559	200 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	4848.73
1560	315 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	5515.84
1561	400 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	5834.78
1562	500 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	6716.28
1563	630 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	8032.79
1564	800 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	10979.72
1565	1000 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	12822.47
1566	1250 amps. TPN, compact type bus trunking with aluminium busbar including elbows and other all accessories	metre	15438.34
1567	200 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	3366.56
1568	315 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	3508.31
1569	400 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	4465.13
1570	500 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	4677.75
1571	630 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	5705.44
1572	800 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	7158.38
1573	1000 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	7583.63
1574	1250 amps. TPN, End Feed Unit for compact rising mains including all accessories	each	8008.88
1575	125 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	3898.13
1576	200 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	4961.25
1577	315 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	6378.75
1578	400 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	6378.75
1579	500 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	9213.75

Item Code	Description	Unit	Rate ₹
1580	630 amps. TPN, TAP OFF Box for compact rising mains including all accessories	each	9213.75
SANDWICH BUS TRUNKING WITH ALUMINIUM BUS BAR			
1581	400 amps 25KA SC for 1 sec	metre	7887.51
1582	500 amps 30KA SC for 1 sec	metre	8608.66
1583	630 amps 50KA SC for 1 sec	metre	9319.18
1584	800 amps 50KA SC for 1 sec	metre	11364.81
1585	1000 amps 50KA SC for 1 sec	metre	12825.72
1586	1250 amps 50KA SC for 1 sec	metre	14653.41
1587	1600 amps 50KA SC for 1 sec	metre	18511.67
1588	2000 amps 50KA SC for 1 sec	metre	21792.29
1589	2500 amps 50KA SC for 1 sec	metre	29543.36
1590	3200 amps 50KA SC for 1 sec	metre	33153.55
1591	4000 amps 50KA SC for 1 sec	metre	42522.34
SWITCH DISCONNECTOR SFU AND MCCB			
1601	32 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1184.00
1602	63 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	1792.00
1603	100 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	3760.00
1604	125 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	4024.00
1605	160 amps. TPN, switch disconnecter fuse unit (Panel mounted type) with ISI marked HRC fuses	each	4816.00
1606	200 amps. TPN switch fuse unit with ISI marked HRC fuses	each	5520.00
1607	315 amps. TPN switch fuse unit with ISI marked HRC fuses	each	9056.00
1608	400 amps. TPN switch fuse unit with ISI marked HRC fuses	each	11208.00
1610	3 pole MCCB, 100A, 16KA	each	2656.00
1611	3 pole MCCB, 125A, 16KA	each	3311.00
1612	3 pole MCCB, 150A, 16KA	each	3773.00
1613	3 pole MCCB, 200A, 16KA	each	5864.00
1614	3 pole MCCB, 200A, 25KA	each	7456.00
1615	3 pole MCCB, 250A, 25KA	each	10076.00
1616	3 pole MCCB, 250A, 35KA	each	10928.00
1617	3 pole MCCB, 315A, 35KA	each	14802.00
1618	3 pole MCCB, 400A, 35KA	each	14802.00

Item Code	Description	Unit	Rate ₹
1619	3 pole MCCB, 500A, 35KA	each	17140.00
1620	3 pole MCCB, 630A, 50KA	each	17451.00
1621	3 pole MCCB, 800A, 50KA	each	23373.00
1622	4 pole MCCB,100A,30KA	each	4500.00
1623	4 pole MCCB, 125A, 36KA	each	4560.00
1624	4 pole MCCB, 200A, 36KA	each	11176.00
1625	4 pole MCCB,250A, 36KA	each	12474.00
1626	4 pole MCCB,250A, 50KA	each	12936.00
1627	4 pole MCCB,400A, 50KA	each	18088.00
1628	4 pole MCCB,630A, 50KA	each	22509.00
MCB'S, ISOLATORS, RCCB'S AND MCB DB'S			
1706	6 amps. to 32 amps. ratings , SP MCB, "C" curve, 10 KA breaking capacity	each	117.00
1707	6 amps. to 32 amps. ratings , SPN MCB, "C" curve, 10 KA breaking capacity	each	351.00
1708	6 amps. to 32 amps. ratings , DP MCB, "C" curve, 10 KA breaking capacity	each	366.00
1709	6 amps. to 32 amps. ratings , TP MCB, "C" curve, 10 KA breaking capacity	each	570.00
1710	6 amps. to 32 amps. ratings , TPN MCB, "C" curve, 10 KA breaking capacity	each	735.00
1711	Single pole, blanking plate	each	5.00
1712	40 amps., 2 pole isolator	each	159.00
1713	63 amps., 2 pole isolator	each	186.00
1714	40 amps., 4 pole isolator	each	510.00
1715	63 amps., 4 pole isolator	each	519.00
1716	100 amps., 4 pole isolator	each	675.00
1717	25 amps. rating, 2 pole RCCB, 100mA/ 300mA	each	1380.00
1718	40 amps. rating, 2 pole RCCB, 100mA/ 300mA	each	1440.00
1719	63 amps. rating, 2 pole RCCB, 100mA/ 300mA	each	1890.00
1720	25 amps. rating, 4 pole RCCB, 100mA/ 300mA	each	1740.00
1721	40 amps. rating, 4 pole RCCB, 100mA/ 300mA	each	1770.00
1722	63 amps. rating, 4 pole RCCB, 100mA/ 300mA	each	1917.00
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

Item Code	Description	Unit	Rate ₹
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	495.00
1731	20 amps. TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	990.00
1732	30 amps. TPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	each	1425.00
1734	2+2 way, SPN, single door, MCB DB	each	375.00
1735	2+4 way, SPN, single door, MCB DB	each	420.00
1736	2+6 way, SPN, single door, MCB DB	each	480.00
1737	2+10 way, SPN, single door, MCB DB	each	630.00
1738	2+2 way, SPN, double door, MCB DB	each	630.00
1739	2+4 way, SPN, double door, MCB DB	each	732.00
1740	2+6 way, SPN, double door, MCB DB	each	810.00
1741	2+10 way, SPN, double door, MCB DB	each	993.00
1742	Sheet steel DP MCB enclosure	each	92.77
1743	Sheet steel TP MCB enclosure	each	105.50
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	1679.40
1755	6 way (4+18), TPN, MCB DB, double door, horizontal type	each	2076.00
1756	8 way (4+24), TPN, MCB DB, double door, horizontal type	each	2517.00
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	3662.51
1761	8 way (4+24), TPN, vertical type, MCB DB, double door	each	4663.02
1762	12 way (4+36), TPN, vertical type, MCB DB, double door	each	5975.82
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 with provision to mount MCCB as incomer	each	Deleted
1765	12 way, TPN, vertical type, single door, MCB DB with with provision to mount MCCB as incomer	each	Deleted

Item Code	Description	Unit	Rate ₹
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
1774	2 + 4 way, SPN, prewired MCB DB with extended loose wire box, double door	each	1960.00
1775	2 + 8 way, SPN, prewired MCB DB with extended loose wire box, double door	each	2379.00
1776	2 + 12 way, SPN, prewired MCB DB with extended loose wire box, double door	each	2911.00
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	6099.00
1784	6 way, (4+18) TPN, prewired MCB DB with extended loose wire box, double door	each	7940.00
1785	8 way, (4+24) TPN, prewired MCB DB with extended loose wire box, double door	each	8723.00
1786	12 way, (4+36) TPN, prewired MCB DB with extended loose wire box, double door	each	10769.00
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	6567.00
1792	6 way (4+6), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	each	8550.00

Item Code	Description	Unit	Rate ₹
1793	8 way (4+8), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	each	9341.00
1794	12 way (4+12), TPN, vertical type, prewired, MCB DB with extended loose wire box, double door	each	12479.00
BRASS COMPRESSION GLANDS			
2101	Brass compression gland (19 mm) for 2 X 6 sq. mm 1.1 KV grade cable	set	51.19
2102	Brass compression gland (19 mm) for 2 X 10 sq. mm 1.1 KV grade cable	set	51.19
2103	Brass compression gland for (22 mm) 2 X 16 sq. mm 1.1 KV grade cable	set	60.43
2104	Brass compression gland for (22 mm) 2 X 25 sq. mm 1.1 KV grade cable	set	60.43
2105	Brass compression gland for (25 mm) 2 X 35 sq. mm 1.1 KV grade cable	set	86.21
2106	Brass compression gland for (28 mm) 2 X 50 sq. mm 1.1 KV grade cable	set	128.68
2107	Brass compression gland for (22 mm) 3 X 10 sq. mm 1.1 KV grade cable	set	60.43
2108	Brass compression gland for (25 mm) 3 X 16 sq. mm 1.1 KV grade cable	set	86.21
2109	Brass compression gland for (25 mm) 3 X 25 sq. mm 1.1 KV grade cable	set	86.21
2110	Brass compression gland for (28 mm) 3 X 35 sq. mm 1.1 KV grade cable	set	128.68
2111	Brass compression gland for (32 mm) 3 X 50 sq. mm 1.1 KV grade cable	set	130.62
2112	Brass compression gland for (35 mm) 3 X 70 sq. mm 1.1 KV grade cable	set	186.27
2113	Brass compression gland for (38 mm) 3 X 95 sq. mm 1.1 KV grade cable	set	210.79
2114	Brass compression gland for (45 mm) 3 X 120 sq. mm 1.1 KV grade cable	set	248.90
2115	Brass compression gland for (50 mm) 3 X 150 sq. mm 1.1 KV grade cable	set	314.74
2116	Brass compression gland for (57 mm) 3 X 185 sq. mm 1.1 KV grade cable	set	450.45
2117	Brass compression gland for (62 mm) 3 X 225 sq. mm 1.1 KV grade cable	set	556.71
2118	Brass compression gland for (62 mm) 3 X 240 sq. mm 1.1 KV grade cable	set	556.71

Item Code	Description	Unit	Rate ₹
2119	Brass compression gland for (70 mm) 3 X 300 sq. mm 1.1 KV grade cable	set	604.38
2120	Brass compression gland for (28 mm) 3½ X 25 sq. mm 1.1 KV grade cable	set	128.68
2121	Brass compression gland for (32 mm) 3½ X 35 sq. mm 1.1 KV grade cable	set	130.62
2122	Brass compression gland for (35 mm) 3½ X 50 sq. mm 1.1 KV grade cable	set	186.27
2123	Brass compression gland for (38 mm) 3½ X 70 sq. mm 1.1 KV grade cable	set	210.79
2124	Brass compression gland for (45 mm) 3½ X 95 sq. mm 1.1 KV grade cable	set	248.90
2125	Brass compression gland for (45 mm) 3½ X 120 sq. mm 1.1 KV grade cable	set	248.90
2126	Brass compression gland for (50 mm) 3½ X 150 sq. mm 1.1 KV grade cable	set	314.74
2127	Brass compression gland for (57 mm) 3½ X 185 sq. mm 1.1 KV grade cable	set	450.45
2128	Brass compression gland for (62 mm) 3½ X 225 sq. mm 1.1 KV grade cable	set	556.71
2129	Brass compression gland for (62 mm) 3½ X 240 sq. mm 1.1 KV grade cable	set	556.71
2130	Brass compression gland for (70 mm) 3½ X 300 sq. mm 1.1 KV grade cable	set	604.38
2131	Brass compression gland for (82 mm) 3½ X 400 sq. mm 1.1 KV grade cable	set	760.31
2132	Brass compression gland for (25 mm) 4 X 10 sq. mm 1.1 KV grade cable	set	86.21
2133	Brass compression gland for (28 mm) 4 X 16 sq. mm 1.1 KV grade cable	set	128.68
2134	Brass compression gland for (28 mm) 4 X 25 sq. mm 1.1 KV grade cable	set	128.68
2135	Brass compression gland for (32 mm) 4 X 35 sq. mm 1.1 KV grade cable	set	130.62
2136	Brass compression gland for (35 mm) 4 X 50 sq. mm 1.1 KV grade cable	set	186.27
ALUMINIUM LUGS			
2201	Aluminium lugs for 6 sq. mm cable	each	1.59
2202	Aluminium lugs for 10 sq. mm cable	each	2.06
2203	Aluminium lugs for 16 sq. mm cable	each	2.47

Item Code	Description	Unit	Rate ₹
2204	Aluminium lugs for 25 sq. mm cable	each	3.10
2205	Aluminium lugs for 35 sq. mm cable	each	4.10
2206	Aluminium lugs for 50 sq. mm cable	each	6.21
2207	Aluminium lugs for 70 sq. mm cable	each	9.30
2208	Aluminium lugs for 95 sq. mm cable	each	10.27
2209	Aluminium lugs for 120 sq. mm cable	each	14.38
2210	Aluminium lugs for 150 sq. mm cable	each	18.61
2211	Aluminium lugs for 185 sq. mm cable	each	23.27
2212	Aluminium lugs for 225 sq. mm cable	each	32.55
2213	Aluminium lugs for 240 sq. mm cable	each	39.75
2214	Aluminium lugs for 300 sq. mm cable	each	55.83
2215	Aluminium lugs for 400 sq. mm cable	each	80.68
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	329.18
2301	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 25 sq. mm 1.1 KV grade cable	set	369.08
2302	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 35 sq. mm 1.1 KV grade cable	set	369.08
2303	Outdoor cable jointing kit with cast resin compound with lugs for 2 X 50 sq. mm 1.1 KV grade cable	set	369.08
2304	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 16 sq. mm 1.1 KV grade cable	set	369.08
2305	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 25 sq. mm 1.1 KV grade cable	set	369.08
2306	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 35 sq. mm 1.1 KV grade cable	set	369.08
2307	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 50 sq. mm 1.1 KV grade cable	set	405.83
2308	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 70 sq. mm 1.1 KV grade cable	set	405.83
2309	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 95 sq. mm 1.1 KV grade cable	set	462.00
2310	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 120 sq. mm 1.1 KV grade cable	set	462.00
2311	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 150 sq. mm 1.1 KV grade cable	set	462.00
2312	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 185 sq. mm 1.1 KV grade cable	set	697.73

Item Code	Description	Unit	Rate ₹
2313	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 225 sq. mm 1.1 KV grade cable	set	697.73
2314	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 240 sq. mm 1.1 KV grade cable	set	844.20
2315	Outdoor cable jointing kit with cast resin compound with lugs for 3 X 300 sq. mm 1.1 KV grade cable	set	844.20
2316	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 25 sq. mm 1.1 KV grade cable	set	369.08
2217	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 35 sq. mm 1.1 KV grade cable	set	405.83
2318	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 50 sq. mm 1.1 KV grade cable	set	405.83
2319	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 70 sq. mm 1.1 KV grade cable	set	462.00
2320	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 95 sq. mm 1.1 KV grade cable	set	462.00
2321	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 120 sq. mm 1.1 KV grade cable	set	462.00
2322	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 150 sq. mm 1.1 KV grade cable	set	697.73
2323	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 185 sq. mm 1.1 KV grade cable	set	697.73
2324	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 225 sq. mm 1.1 KV grade cable	set	844.20
2325	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 240 sq. mm 1.1 KV grade cable	set	844.20
2326	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 300 sq. mm 1.1 KV grade cable	set	844.20
2327	Outdoor cable jointing kit with cast resin compound with lugs for 3½ X 400 sq. mm 1.1 KV grade cable	set	1016.40
2328	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 16 sq. mm 1.1 KV grade cable	set	369.08
2329	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 25 sq. mm 1.1 KV grade cable	set	369.08
2330	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 35 sq. mm 1.1 KV grade cable	set	405.83
2331	Outdoor cable jointing kit with cast resin compound with lugs for 4 X 50 sq. mm 1.1 KV grade cable	set	405.83
2332	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 16 sq. mm 1.1 KV grade cable	set	870.45
2333	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 25 sq. mm 1.1 KV grade cable	set	870.45

Item Code	Description	Unit	Rate ₹
2334	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 35 sq. mm 1.1 KV grade cable	set	870.45
2335	Straight through cable jointing kit with cast resin compound with ferrules for 2 X 50 sq. mm 1.1 KV grade cable	set	1016.40
2336	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 16 sq. mm 1.1 KV grade cable	set	1016.40
2337	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 25 sq. mm 1.1 KV grade cable	set	870.45
2338	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 35 sq. mm 1.1 KV grade cable	set	870.45
2339	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 50 sq. mm 1.1 KV grade cable	set	1016.40
2340	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 70 sq. mm 1.1 KV grade cable	set	1215.90
2341	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 95 sq. mm 1.1 KV grade cable	set	1248.98
2342	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 120 sq. mm 1.1 KV grade cable	set	1428.53
2343	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 150 sq. mm 1.1 KV grade cable	set	1428.53
2344	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 185 sq. mm 1.1 KV grade cable	set	1740.38
2345	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 225 sq. mm 1.1 KV grade cable	set	1999.73
2346	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 240 sq. mm 1.1 KV grade cable	set	1999.73
2347	Straight through cable jointing kit with cast resin compound with ferrules for 3 X 300 sq. mm 1.1 KV grade cable	set	2517.38
2348	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 25 sq. mm 1.1 KV grade cable	set	1016.40
2349	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 35 sq. mm 1.1 KV grade cable	set	1016.40
2350	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 50 sq. mm 1.1 KV grade cable	set	1215.90
2351	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 70 sq. mm 1.1 KV grade cable	set	1227.98
2352	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 95 sq. mm 1.1 KV grade cable	set	1428.53
2353	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 120 sq. mm 1.1 KV grade cable	set	1740.38
2354	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 150 sq. mm 1.1 KV grade cable	set	1740.38

Item Code	Description	Unit	Rate ₹
2355	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 185 sq. mm 1.1 KV grade cable	set	1999.73
2356	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 225 sq. mm 1.1 KV grade cable	set	2039.63
2357	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 240 sq. mm 1.1 KV grade cable	set	2517.38
2358	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 300 sq. mm 1.1 KV grade cable	set	3015.60
2349	Straight through cable jointing kit with cast resin compound with ferrules for 3½ X 400 sq. mm 1.1 KV grade cable	set	1619.10
2360	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 16 sq. mm 1.1 KV grade cable	set	870.45
2361	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 25 sq. mm 1.1 KV grade cable	set	1016.40
2362	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 35 sq. mm 1.1 KV grade cable	set	1016.40
2363	Straight through cable jointing kit with cast resin compound with ferrules for 4 X 50 sq. mm 1.1 KV grade cable	set	1215.90
2364	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 16 sq. mm 1.1 KV grade cable	set	870.45
2365	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 25 sq. mm 1.1 KV grade cable	set	870.45
2366	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 35 sq. mm 1.1 KV grade cable	set	870.45
2367	Straight through cable jointing kit with heat shrinkable kit with ferrules for 2 X 50 sq. mm 1.1 KV grade cable	set	1016.40
2368	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 16 sq. mm 1.1 KV grade cable	set	870.45
2369	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 25 sq. mm 1.1 KV grade cable	set	870.45
2370	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 35 sq. mm 1.1 KV grade cable	set	1016.40
2371	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 50 sq. mm 1.1 KV grade cable	set	1016.40
2372	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 70 sq. mm 1.1 KV grade cable	set	1248.98
2373	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 95 sq. mm 1.1 KV grade cable	set	1428.53
2374	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 120 sq. mm 1.1 KV grade cable	set	1428.53
2375	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 150 sq. mm 1.1 KV grade cable	set	1428.53

Item Code	Description	Unit	Rate ₹
2376	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 185 sq. mm 1.1 KV grade cable	set	1740.38
2377	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 225 sq. mm 1.1 KV grade cable	set	1999.73
2378	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 240 sq. mm 1.1 KV grade cable	set	2039.63
2379	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3 X 300 sq. mm 1.1 KV grade cable	set	2517.38
2380	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 25 sq. mm 1.1 KV grade cable	set	1016.40
2381	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 35 sq. mm 1.1 KV grade cable	set	1016.40
2382	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 50 sq. mm 1.1 KV grade cable	set	1215.90
2383	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 70 sq. mm 1.1 KV grade cable	set	1248.98
2384	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 95 sq. mm 1.1 KV grade cable	set	1428.53
2385	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 120 sq. mm 1.1 KV grade cable	set	1740.38
2386	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 150 sq. mm 1.1 KV grade cable	set	1740.38
2387	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 185 sq. mm 1.1 KV grade cable	set	1999.73
2388	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 225 sq. mm 1.1 KV grade cable	set	1999.73
2389	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 240 sq. mm 1.1 KV grade cable	set	2039.63
2390	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 300 sq. mm 1.1 KV grade cable	set	2517.38
2391	Straight through cable jointing kit with heat shrinkable kit with ferrules for 3½ X 400 sq. mm 1.1 KV grade cable	set	3719.10
2392	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 16 sq. mm 1.1 KV grade cable	set	870.45
2393	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 25 sq. mm 1.1 KV grade cable	set	1016.40
2394	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 35 sq. mm 1.1 KV grade cable	set	1016.40
2395	Straight through cable jointing kit with heat shrinkable kit with ferrules for 4 X 50 sq. mm 1.1 KV grade cable	set	1215.90

Item Code	Description	Unit	Rate ₹
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	524.48
2414	Indoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	524.48
2415	Indoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	765.45
2416	Indoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	793.80
2417	Outdoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	1795.50
2418	Outdoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	1819.13
2419	Outdoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	2060.10
2420	Outdoor cable jointing kit with cast resin compound with lugs for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	2060.10
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	1408.05
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	1696.28
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	2683.80
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	3179.93
2437	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	3614.63
2438	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	3614.63
2439	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	4752.56
2440	Indoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	4752.56
2441	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	6470.63
2442	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	6470.63
2443	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	7340.81
2444	Outdoor heat shrinkable cable jointing kit with lugs for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	7340.81

Item Code	Description	Unit	Rate ₹
2445	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 70 sq. mm.	set	7318.50
2446	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 120 sq. mm.	set	7925.40
2447	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 240 sq. mm.	set	8353.80
2448	Straight through heat shrinkable cable jointing kit with ferrules for 11 KV grade XLPE cable for 3 core 300 sq. mm.	set	8353.80
2528	Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 70 sq. mm.	set	8523.38
2529	Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 120 sq. mm.	set	11651.59
2530	Indoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 240 sq. mm.	set	12553.01
2531	Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 70 sq. mm.	set	12923.40
2532	Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 120 sq. mm.	set	15520.58
2533	Outdoor heat shrinkable cable jointing kit with lugs for 33 KV grade XLPE cable for 3 core 240 sq. mm.	set	17466.23
2534	Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 70 sq. mm.	set	20527.50
2535	Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 120 sq. mm.	set	25967.29
2536	Straight through heat shrinkable cable jointing kit with ferrules for 33 KV grade XLPE cable for 3 core 240 sq. mm.	set	36369.38
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	540.00
2602	Stay wire (7/4.00 mm dia.)	kg	46.80
2603	Stay wire (7/3.15 mm dia.)	kg	46.80
2604	Turn buckle (20 mm X 60 cm)	each	198.00
2605	Strain insulator	each	27.00
2606	Bow tightner	each	19.80
2607	Shackle insulator (75 mm X 90 mm) with G.I. bolts and nuts	set	36.45
2608	Shackle insulator (100 mm X 110 mm) with G.I. bolts and nuts	set	63.00
2609	Pin insulator (100 mm X 65 mm) with G.I. spindle and nuts	set	34.20
2610	Pin insulator (100 mm X 80 mm) with G.I. spindle and nuts	set	36.00
2611	MV horn gap lightning arrestor with pin insulator (100 mm X 65 mm), spindle and brass metal parts etc.	set	99.00

Item Code	Description	Unit	Rate ₹
2615	15 amps aerial fuse complete with porcelain tube as required	each	16.20
2616	30 amps aerial fuse complete with porcelain tube as required	each	25.20
2618	Stay clamp	set	63.00
2619	Brace (50 mm X 50 mm X 6 mm angle iron)	metre	211.50
2620	Angle iron bracket (50 mm X 50 mm X 6 mm) 65 cm long	each	139.50
2623	Eye hook	each	29.70
2624	Guy clamp	each	67.50
2635	D' iron clamp (with coach screws)	each	76.50
2643	Strain insulator 11 KV	each	40.50
2644	Strain insulator 33 KV	each	63.00
2645	11 KV pin insulator with pin washers and nuts	set	256.50
2646	11 KV disc insulator	set	724.50
2647	Galvanised insulator hardware fitting ball and socket type with strain clamps, bolts, nuts and washers	set	148.50
2648	33 KV pin insulator with pin washers and nuts	set	851.40
2649	Galvanised insulator hardware fitting ball and socket type with strain clamps, bolts, nuts and washers for 3 Nos 11 KV disk insulator	set	433.80
2650	3 piece lightning arrester set for 11 KV O.H. lines complete with G.I. clamps bolts and nuts with washers	set	4500.00
2651	Single piece lightning arrester set for 33 KV O.H. lines complete with G.I. clamps bolts and nuts with washers	set	34000.00
2665	G.I. strap for shackle insulator	set	54.00
CABLE TRAYS			
2701	MS perforated cable tray painted with powder coating 100 X 50 X 1.6 mm	metre	232.00
2702	MS perforated cable tray painted with powder coating 150 X 50 X 1.6 mm	metre	287.00
2703	MS perforated cable tray painted with powder coating 225 X 50 X 1.6 mm	metre	407.14
2704	MS perforated cable tray painted with powder coating 300 X 50 X 1.6 mm	metre	502.43
2705	MS perforated cable tray painted with powder coating 375 X 50 X 2 mm	metre	578.03
2706	MS perforated cable tray painted with powder coating 450 X 50 X 2 mm	metre	741.83
2707	MS perforated cable tray painted with powder coating 600 X 50 X 2 mm	metre	948.94
2708	MS perforated cable tray painted with powder coating 300 X 62.5 X 2 mm	metre	571.73

Item Code	Description	Unit	Rate ₹
2709	MS perforated cable tray painted with powder coating 375 X 62.5 X 2 mm	metre	691.43
2710	MS perforated cable tray painted with powder coating 450 X 62.5 X 2 mm	metre	775.69
2711	MS perforated cable tray painted with powder coating 600 X 62.5 X 2 mm	metre	974.93
2712	MS perforated cable tray painted with powder coating 750 X 62.5 X 2 mm	metre	1315.91
2713	MS perforated cable tray painted with powder coating 900 X 62.5 X 2 mm	metre	1384.43
2714	MS perforated cable tray painted with powder coating 600 X 75 X 2 mm	metre	1013.51
2715	MS perforated cable tray painted with powder coating 750 X 75 X 2 mm	metre	1367.89
2716	MS perforated cable tray painted with powder coating 900 X 75 X 2 mm	metre	1420.65
2717	MS perforated cable tray Connector 100 X 50 X 1.6 mm	each	26.85
2718	MS perforated cable tray Connector 150 X 50 X 1.6 mm	each	34.65
2719	MS perforated cable tray Connector 225 X 50 X 1.6 mm	each	35.52
2720	MS perforated cable tray Connector 300 X 50 X 1.6 mm	each	35.52
2721	MS perforated cable tray Connector 375 X 50 X 2 mm	each	38.98
2722	MS perforated cable tray Connector 450 X 50 X 2 mm	each	45.91
2723	MS perforated cable tray Connector 600 X 50 X 2 mm	each	50.25
2724	MS perforated cable tray Connector 300 X 62.5 X 2 mm	each	38.98
2725	MS perforated cable tray Connector 375 X 62.5 X 2 mm	each	45.05
2726	MS perforated cable tray Connector 450 X 62.5 X 2 mm	each	49.38
2727	MS perforated cable tray Connector 600 X 62.5 X 2 mm	each	54.14
2728	MS perforated cable tray Connector 750 X 62.5 X 2 mm	each	60.20
2729	MS perforated cable tray Connector 900 X 62.5 X 2 mm	each	63.24
2733	MS perforated cable tray Bend 100 X 50 X 1.6 mm	each	537.08
2734	MS perforated cable tray Bend 150 X 50 X 1.6 mm	each	660.09
2735	MS perforated cable tray Bend 225 X 50 X 1.6 mm	each	865.38
2736	MS perforated cable tray Bend 300 X 50 X 1.6 mm	each	1075.89
2737	MS perforated cable tray Bend 375 X 50 X 2 mm	each	1366.95
2738	MS perforated cable tray Bend 450 X 50 X 2 mm	each	1594.77
2739	MS perforated cable tray Bend 600 X 50 X 2 mm	each	2029.62
2740	MS perforated cable tray Bend 300 X 62.5 X 2 mm	each	1222.28
2741	MS perforated cable tray Bend 375 X 62.5 X 2 mm	each	1441.44

Item Code	Description	Unit	Rate ₹
2742	MS perforated cable tray Bend 450 X 62.5 X 2 mm	each	1662.33
2743	MS perforated cable tray Bend 600 X 62.5 X 2 mm	each	2097.19
2744	MS perforated cable tray Bend 750 X 62.5 X 2 mm	each	2490.47
2745	MS perforated cable tray Bend 900 X 62.5 X 2 mm	each	2973.84
2746	MS perforated cable tray Bend 600 X 75 X 2 mm	each	2170.83
2747	MS perforated cable tray Bend 750 X 75 X 2 mm	each	2555.44
2748	MS perforated cable tray Bend 900 X 75 X 2 mm	each	3045.74
2749	MS perforated cable tray Reducer 100 X 50 X 1.6 mm	each	402.81
2750	MS perforated cable tray Reducer 150 X 50 X 1.6 mm	each	490.30
2751	MS perforated cable tray Reducer 225 X 50 X 1.6 mm	each	648.82
2752	MS perforated cable tray Reducer 300 X 50 X 1.6 mm	each	805.62
2753	MS perforated cable tray Reducer 375 X 50 X 2 mm	each	1024.77
2754	MS perforated cable tray Reducer 450 X 50 X 2 mm	each	1198.02
2755	MS perforated cable tray Reducer 600 X 50 X 2 mm	each	1491.69
2756	MS perforated cable tray Reducer 300 X 62.5 X 2 mm	each	918.23
2757	MS perforated cable tray Reducer 375 X 62.5 X 2 mm	each	1080.21
2758	MS perforated cable tray Reducer 450 X 62.5 X 2 mm	each	1243.94
2759	MS perforated cable tray Reducer 600 X 62.5 X 2 mm	each	1573.11
2760	MS perforated cable tray Reducer 750 X 62.5 X 2 mm	each	1868.82
2761	MS perforated cable tray Reducer 900 X 62.5 X 2 mm	each	2230.59
2762	MS perforated cable tray Reducer 600 X 75 X 2 mm	each	1626.82
2763	MS perforated cable tray Reducer 750 X 75 X 2 mm	each	1915.28
2764	MS perforated cable tray Reducer 900 X 75 X 2 mm	each	2284.30
2765	MS perforated cable tray Tee 100 X 50 X 1.6 mm	each	805.20
2766	MS perforated cable tray Tee 150 X 50 X 1.6 mm	each	991.86
2767	MS perforated cable tray Tee 225 X 50 X 1.6 mm	each	1299.38
2768	MS perforated cable tray Tee 300 X 50 X 1.6 mm	each	1612.96
2769	MS perforated cable tray Tee 375 X 50 X 2 mm	each	2051.28
2770	MS perforated cable tray Tee 450 X 50 X 2 mm	each	2392.59
2771	MS perforated cable tray Tee 600 X 50 X 2 mm	each	3041.40
2772	MS perforated cable tray Tee 300 X 62.5 X 2 mm	each	1832.12
2773	MS perforated cable tray Tee 375 X 62.5 X 2 mm	each	2160.43
2774	MS perforated cable tray Tee 450 X 62.5 X 2 mm	each	2494.80
2775	MS perforated cable tray Tee 600 X 62.5 X 2 mm	each	3144.49
2776	MS perforated cable tray Tee 750 X 62.5 X 2 mm	each	3730.94

Item Code	Description	Unit	Rate ₹
2777	MS perforated cable tray Tee 900 X 62.5 X 2 mm	each	4459.46
2778	MS perforated cable tray Tee 600 X 75 X 2 mm	each	3253.64
2779	MS perforated cable tray Tee 750 X 75 X 2 mm	each	3830.56
2780	MS perforated cable tray Tee 900 X 75 X 2 mm	each	4567.74
2781	MS perforated cable tray Cross member 100 X 50 X 1.6 mm	each	1075.02
2782	MS perforated cable tray Cross member 150 X 50 X 1.6 mm	each	1305.44
2783	MS perforated cable tray Cross member 225 X 50 X 1.6 mm	each	1732.50
2784	MS perforated cable tray Cross member 300 X 50 X 1.6 mm	each	2149.17
2785	MS perforated cable tray Cross member 375 X 50 X 2 mm	each	2734.75
2786	MS perforated cable tray Cross member 450 X 50 X 2 mm	each	3189.54
2787	MS perforated cable tray Cross member 600 X 50 X 2 mm	each	4057.52
2788	MS perforated cable tray Cross member 300 X 62.5 X 2 mm	each	2444.56
2789	MS perforated cable tray Cross member 375 X 62.5 X 2 mm	each	2881.15
2790	MS perforated cable tray Cross member 450 X 62.5 X 2 mm	each	3326.40
2791	MS perforated cable tray Cross member 600 X 62.5 X 2 mm	each	4194.39
2792	MS perforated cable tray Cross member 750 X 62.5 X 2 mm	each	4978.34
2793	MS perforated cable tray Cross member 900 X 62.5 X 2 mm	each	5942.48
2794	MS perforated cable tray Cross member 600 X 75 X 2 mm	each	4338.99
2795	MS perforated cable tray Cross member 750 X 75 X 2 mm	each	5105.68
2796	MS perforated cable tray Cross member 900 X 75 X 2 mm	each	6089.74

ANGLE/FLAT IRON AND STEEL SHEET

2801	MS Suspender 6 mm dia 0.75m long	each	21.00
2802	MS Suspender 8 mm dia 0.75m long	each	25.52
2803	MS Suspender 10 mm dia 0.75m long	each	35.91
2804	25 mm X 25 mm X 3 mm angle iron	kg	49.00
2805	35 mm X 35 mm X 4 mm angle iron	kg	49.00
2806	35 mm X 35 mm X 5 mm angle iron	kg	49.00
2807	50 mm X 50 mm X 6 mm angle iron	kg	49.00
2808	65 mm X 65 mm X 6 mm angle iron	kg	49.00
2809	20/25 mm X 3 mm flat iron	kg	49.00
2810	25 mm X 4 mm flat iron	kg	49.00
2811	25 mm X 6 mm flat iron	kg	49.00
2812	40 mm X 3 mm flat iron	kg	49.00
2813	50 mm X 6 mm flat iron	kg	49.00
2814	50 mm X 8 mm flat iron	kg	49.00

Item Code	Description	Unit	Rate ₹
2815	100 mm X 50 mm X 6 mm channel iron (9.56 kg/ mtr)	kg	49.00
2816	75 mm X 40 mm X 6 mm channel iron (7.14 kg/ mtr)	kg	49.00
2817	1.6 mm thick M.S. sheet	kg	54.81
2818	3 mm thick M.S. sheet	kg	54.81
GI AND RCC PIPE			
2819	20 mm dia G.I. Pipe (light class)	metre	106.00
2820	32 mm dia G.I. Pipe (light class)	metre	185.00
2821	50 mm dia G.I. Pipe (light class)	metre	290.00
2822	80 mm dia G.I. Pipe (light class)	metre	461.00
2823	100 mm dia G.I. Pipe (light class)	metre	645.00
2824	15 mm dia. G.I. pipe (medium class)	metre	92.00
2825	20 mm dia. G.I. pipe (medium class)	metre	116.00
2826	40 mm dia. G.I. pipe (medium class)	metre	252.00
2827	15 mm dia. G.I. pipe (heavy class)	metre	105.00
2828	20 mm dia. G.I. pipe (heavy class)	metre	136.00
2829	Check nut 20mm	each	4.00
2831	32 mm dia. G.I. pipe (medium class)	metre	217.00
2832	50 mm dia. G.I. pipe (medium class)	metre	336.00
2833	80 mm dia. G.I. pipe (medium class)	metre	549.00
2834	100 mm dia. G.I. pipe (medium class)	metre	795.00
2835	150 mm dia. G.I. pipe (medium class)	metre	1252.00
2836	40 mm to 20 mm reducer	each	29.00
2837	Nipple 50 mm dia	each	51.98
2838	40 mm dia. G.I. bend (medium class)	each	54.00
2839	50 mm dia. G.I. bend (medium class)	each	90.00
2841	100 mm dia RCC pipe NP2 class	metre	142.00
2842	150 mm dia RCC pipe NP2 class	metre	162.00
2843	250 mm dia RCC pipe NP2 class	metre	197.00
2844	300 mm dia RCC pipe NP2 class	metre	274.00
2845	100 mm dia RCC collar NP2 class	each	21.00
2846	150 mm dia RCC collar NP2 class	each	26.00
2847	250 mm dia RCC collar NP2 class	each	42.00
2848	300 mm dia RCC collar NP2 class	each	51.00
SCREWS, NUT BOTS AND OTHER ACCESSORIES			
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	0.40

Item Code	Description	Unit	Rate ₹
2852	Iron screws, 35 mm X 6 mm	each	0.95
2853	Iron screws, 40 mm X 6 mm	each	0.95
2854	Iron screws, 45 mm X 6 mm	each	1.00
2855	Steel fastener 6 mm X 75 mm	each	5.00
2856	Steel fastener 8 mm X 75 mm	each	7.00
2857	PVC fastener 40mm long	each	0.28
2858	PVC clip for fixing cable	each	0.10
2859	Rubber/ PVC bushes	each	0.50
2860	6 mm dia rivet/ stud/ bolts and nuts	each	3.00
2861	25mm X 3mm bolts & nuts	each	2.00
2862	32mm X 8mm bolts & nuts	each	4.00
2863	38mm X 10mm bolts & nuts	each	7.00
2864	38 mm X 7 mm, bolts and nuts	each	5.00
2865	15 mm long X 6 mm dia G.I. bolts and nuts	each	4.00
2866	10 mm X 25 mm long G.I. bolt with nut etc	each	9.00
2867	16 mm X 50 mm bolts and nuts with washers	set	6.00
2868	16 mm X 40 mm bolts and nuts with washers	set	6.00
2869	16 mm X 125 mm bolts and nuts with washers	set	20.00
2870	16 mm X 150 mm bolts and nuts with washers	set	24.00
2871	10 mm X 25 mm long tinned brass bolt with nut etc.	each	27.50
2881	GI saddles 19mm x 0.55mm for conduit	each	0.85
2882	GI saddles 25mm x 0.90mm for conduit above 25mm	each	1.00
2901	20 mm X 3 mm copper tape (0.533 kg/mtr)	kg	550.00
2902	25 mm X 5 mm copper tape (1.15 kg/mtr)	kg	550.00
2903	32 mm X 6 mm copper tape (1.705 kg/mtr)	kg	550.00
2904	8 SWG copper wire (4.0 mm dia)	kg	544.00
2905	600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)	each	5441.00
2906	Copper saddle	each	29.00
2907	50 mm X 5mm copper strip (2.30 kg/mtr)	kg	550.00
2908	Brass nipple	each	6.00
2909	Lightning finial, 25 mm dia X 300 mm long, copper	each	525.00
2910	Lightning finial, 25 mm dia X 300 mm long, G.I.	each	185.00
2911	20 mm X 3 mm G.I. Tape (0.461 kg/mtr)	kg	58.00
2912	25 mm X 5 mm G.I. strip (1.0 kg/mtr)	kg	61.00
2913	25 mm X 6 mm G.I. strip (1.2 kg/mtr)	kg	60.00

Item Code	Description	Unit	Rate ₹
2914	32 mm X 6 mm G.I. Tape (1.475 kg/mtr)	kg	60.00
2915	600 mm X 600 mm X 6 mm thick G.I. plate	each	1307.00
2916	6 SWG G.I. wire	kg	56.00
2917	GI saddle 20mm x 3mm	each	2.00
2918	Funnel	each	17.00
2919	G.I. nuts and through bolts with washer	each	22.00
2920	Washers	each	0.17
2921	G.I. Hooks made of 8 SWG GI wire/ GI clip	each	2.00
2922	CI/MS cover plate hinged to FRLSame with Locking arrangement	each	260.00
2923	Pulley of 50 mm dia	each	72.00
2924	Clamps, bolts, nuts etc.	set	93.00
2925	Flat iron clamps (50 mm X 6 mm) for G.I. pipe	each	28.90
2926	G.I. plate (10 cm X 10 cm X 5 mm)	kg	65.00
2927	Ball and socket	each	14.00
2928	Back plate	each	6.00
2929	Check nut 20mm	each	3.00
2931	PVC sleeve	metre	4.00
2932	250 mm X 200 mm H.T. danger notice plate	each	52.00
2933	200 mm X 150 mm M.V. danger notice plate	each	40.00
2934	Earthing thimbles and solder	L.S.	11.00
2935	Cement, paint, sand etc.	L.S.	4.50
2936	Painting with primer and finish paint	L.S.	4.00
2937	Diesel	liter	53.00
2938	Cotton waste, cleaning cloth etc.	kg	38.00
2939	Cleaning materials like soap/ detergent	kg	43.00
2940	Tin solder etc.	L.S.	22.00
2941	Charcoal	kg	8.00
2942	Coke	kg	8.20
2943	Salt	kg	7.00
2944	Paint	liter	142.00
2945	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	each	3.00
2946	Fine sand	cum	672.00
2947	Bricks ballast	cum	525.00
2948	Cement	tonne	5250.00

Item Code	Description	Unit	Rate ₹
2949	Stone aggregate (single size) 40mm nominal size	cum	1050.00
2950	Stone aggregate (single size) 20mm nominal size	cum	1175.00
2951	Stone aggregate (single size) 10mm nominal size	cum	1175.00
2952	Coarse sand (Zone III)	cum	1200.00
9999	Sundries/bending charges	L.S.	1.10

HVAC ITEMS

The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.

3001	M.S. Pipe - 400 mm dia.	metre	5040.63
3002	M.S. Pipe - 350 mm dia.	metre	2955.02
3003	M.S. Pipe- 300 mm dia.	metre	2673.41
3004	M.S. Pipe - 250mm dia.	metre	2249.10
3005	M.S. Pipe - 200mm dia.	metre	1792.67
3006	M.S. Pipe - 150mm dia.	metre	1138.54
3007	M.S. Pipe - 125mm dia.	metre	958.28
3008	M.S. Pipe - 100mm dia.	metre	776.98
3009	M.S. Pipe - 80mm dia.	metre	527.40
3010	M.S. Pipe -65mm dia.	metre	435.46
3011	M.S. Pipe -50 mm dia.	metre	332.26
3012	M.S. Pipe - 40 mm dia.	metre	234.64
3013	M.S. Pipe - 32 mm dia	metre	201.71
3014	M.S. Pipe - 25 mm dia	metre	156.59
3023	Pipe aluminium Cladding 0.63mm	metre	300.00
	BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/ hot eater circulation as specified		
3024	200 mm dia	each	8330.00
3025	150mm dia.	each	4536.00
3026	125mm dia.	each	3864.00
3027	100mm dia.	each	3465.00
3028	80mm dia.	each	2469.60
3029	65mm dia.	each	2175.60
3030	50mm dia.	each	1999.20
3031	40mm dia.	each	1808.00

Item Code	Description	Unit	Rate ₹
	BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.		
3032	200 mm dia	each	40857.60
3033	150mm dia.	each	19491.15
3034	125mm dia.	each	13027.35
3035	100mm dia.	each	9301.69
3036	80mm dia.	each	5675.78
3037	65 mm dia	each	5436.38
3038	50mm dia.	each	4887.75
3039	40 mm dia	each	2236.00
	NON - RETURN VALVE with dual 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	7052.33
3041	150mm dia.	each	4428.90
3042	125mm dia.	each	3361.58
3043	100 mm dia	each	2294.25
3044	80mm dia.	each	1680.79
3045	65 mm dia	each	1386.53
	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	16794.91
3047	150mm dia.	each	8002.94
3048	125mm dia.	each	7496.21
3049	100 mm dia	each	4937.63
3050	80 mm dia	each	3620.93
3051	65mm dia.	each	3127.16
3052	50mm dia.	each	2413.95
3053	40mm dia.	each	1645.88
3054	Industrial type pressure gauges with gun metal / brass valves	each	717.00
3055	Industrial type thermometers.	each	525.00
	Factory fabricated GSS sheet metal rectangular/round ducting of following sheet thickness		
3056	Thickness 0.63 mm sheet	sqmtr	430.35
3057	Thickness 0.80 mm sheet	sqmtr	548.26
3058	Thickness 1.00 mm sheet	sqmtr	654.37

Item Code	Description	Unit	Rate ₹
3059	Thickness 1.25 mm sheet GSS sheet metal of following sheet thickness	sqmtr	766.38
3060	Thickness 0.63 mm sheet	sqmtr	310.86
3061	Thickness 0.80 mm sheet	sqmtr	414.48
3062	Thickness 1.00 mm sheet	sqmtr	518.10
3063	Thickness 1.25 mm sheet	sqmtr	627.00
3064	GI volume control duct damper	sqmtr	4300.00
3015	Motorized (ON-OFF Type) duct mounted GI volume control damper with enthalpy sensor and necessary control wire (minimum 1.5 sqmm) for integration within AHU room		9000.00
3065	Actuator	sqmtr	3589.00
3066	powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers	sqmtr	5912.68
3067	powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers	sqmtr	3272.43
3068	supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	sqmtr	7251.40
3069	Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	sqmtr	4611.15
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	sqmtr	274.00
3071	Fire damper	sqmtr	5711.87
3072	Actuator	sqmtr	5255.72
3073	25 mm thick resin bonded glass wool having density of 32 kg/m ³ ,	sqmtr	97.69
3074	50mm thick, density 32 kg/cu.m resin bonded glass fiber insulation Duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class "O") insulation for use on existing duct	sqmtr	196.02
3076	19mmthickness	sqmtr	605.55
3077	25mmthickness	sqmtr	772.75

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/

Item Code	Description	Unit	Rate ₹
	washable synthetic type air prefilters, belt drive package with TEFC drive motor suitable for $415 \pm 10\%$ volts, 50Hz, 3 Phase AC supply, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.) and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.		
3078	2500CFM	each	61249.85
3079	3000CFM	each	72058.65
3080	4000CFM	each	81229.75
3081	5000CFM	each	101340.66
3082	6000CFM	each	118503.72
3083	7000CFM	each	133177.48
3084	8000CFM	each	147851.24
3085	9000CFM	each	161804.41
3086	10000CFM	each	175757.59
3087	11000CFM	each	193051.66
3088	12000CFM	each	210345.74
	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 suitable for $415 \pm 10\%$ volts, 50Hz, 3 Phase AC supply, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.) and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.		
3089	2500CFM	each	55419.65
3090	3000CFM	each	65049.30
3091	4000CFM	each	72582.71
3092	5000CFM	each	89811.28
3093	6000CFM	each	105140.11
3094	7000CFM	each	117619.36
3095	8000CFM	each	130098.61

Item Code	Description	Unit	Rate ₹
3096	9000CFM	each	141791.76
3097	10000CFM	each	153484.91
3098	11000CFM	each	166389.96
3099	12000CFM	each	183684.04
4001	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 400 mm dia pipe	metre	1507.13
4002	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 350 mm dia pipe	metre	1347.10
4003	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-75 mm thickness for 300 mm dia pipe	metre	1104.16
4004	Resin bonded fiber glass pipe section 250mm insulation having density 80 kg/cum-75 mm thickness for 250 mm dia pipe	metre	964.69
4005	Resin bonded fiber glass pipe section 200 mm insulation having density 80 kg/cum-75 mm thickness for 200 mm dia pipe	metre	816.87
4006	Resin bonded fiber glass pipe section 150 mm insulation having density 80 kg/cum-50 mm thickness for 150 mm dia pipe	metre	413.26
4007	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 125mm dia pipe	metre	364.41
4008	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 100 mm dia pipe	metre	315.57
4009	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 80 mm dia pipe	metre	269.29
4010	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 65 mm dia pipe	metre	244.23
4011	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 50 mm dia pipe	metre	213.38
4012	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50mm thickness for 40 mm dia pipe	metre	192.17
4013	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 32 mm dia pipe	metre	180.60
4014	Resin bonded fiber glass pipe section insulation having density 80 kg/cum-50 mm thickness for 25 mm dia pipe	metre	164.53
4015	Nitrile rubber (closed cell elastometric nitrile rubber of class 'O') Insulation -32 mm thickness	sq metre	658.35
4016	Nitrile rubber (closed cell elastometric nitrile rubber of class 'O') Insulation -19 mm thickness	sq metre	371.80
4017	Expanded polystyrene moulded pipe section of density 20kg/ cum Insulation -75mm thickness for 400 mm dia pipe	metre	852.64
4018	Expanded polystyrene moulded pipe section of density 20kg/ cum Insulation -75mm thickness for 350 mm dia pipe	metre	744.66
4019	Expanded polystyrene moulded pipe section of density 20kg/ cum Insulation -75mm thickness for 300mm dia pipe	metre	659.02

Item Code	Description	Unit	Rate ₹
4020	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75mm thickness for 250 mm dia pipe	metre	572.46
4021	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -75 mm thickness for 200 mm dia pipe	metre	488.68
4022	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 150 mm dia pipe	metre	241.08
4023	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation - 50 mm thickness for 125 mm dia pipe	metre	213.16
4024	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 100 mm dia pipe	metre	179.65
4025	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 80 mm dia pipe	metre	157.31
4026	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 65 mm dia pipe	metre	143.35
4027	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 50 mm dia pipe	metre	124.73
4028	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 40 mm dia pipe	metre	111.70
4029	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 32 mm dia pipe	metre	106.11
4030	Expanded polystyrene moulded pipe section of density 20kg/cum Insulation -50 mm thickness for 25 mm dia pipe	metre	95.87
4031	Resin bonded fiber glass insulation of thickness 75 mm on existing pipe	sq metre	1111.87
4032	Resin bonded fiber glass insulation of density 80 kg/cu.mt. of thickness 50 mm on existing pipe	sq metre	912.63
4033	Resin bonded fiber glass insulation of density 80 kg/cu.mt. of thickness 40 mm on existing pipe	sq metre	835.51
4034	Resin bonded fiber glass insulation of thickness 25 mm on existing pipe	sq metre	642.70
4037	Expanded polystyrene insulation of thickness 75 mm on existing pipe	sq metre	699.98
4038	Expanded polystyrene insulation of thickness 50 mm on existing pipe	sq metre	446.80
4069	Acoustic lining of supply air duct with 25mm thick resin bonded glass wool having density of 32kg/m ³	sq metre	152.00
4070	Reinforced fiber glass tissue and 0.08mm perforated aluminium sheet	sq metre	260.00
4071	50 mm thick resin bonded glass wool having density of 32kg/m ³	sq metre	196.02
4072	50 mm thick resin bonded glass wool having density of 24 kg/m ³ with factory laminated aluminium foil	sq metre	193.45

REFERENCE TO AMENDMENTS

S.No.	Reference under which issued	Item No.	Page No.	Remarks