

# GOVERNMENT OF INDIA CENTRAL PUBLIC WORKS DEPARTMENT

## **DELHI SCHEDULE OF RATES**

(E & M)

2013



PUBLISHED
By
DIRECTOR GENERAL, CPWD, NEW DELHI



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केन्द्रीय लोक निर्माण विभाग निर्माण भवन, नई दिल्ली-110011

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#### **FOREWORD**

This Delhi Schedule of Rates (E&M) 2013 is a comprehensive document 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 were published in 2012. Now Schedule of Rates for Electrical Works is named as Delhi Schedule of Rates (E&M) 2013 as it incorporates items for HVAC Works of plumbing, ducting and AHU also. The Schedule of Rates has now been revised to take care of not only the increased cost on account of revised labour and material rates but also the technological changes and improvements since the last revision. A new chapter-15 lighting control has been incorporated in this DSR for adding green features in the building. Accordingly, this Delhi Schedule of Rates (E&M) 2013 has been prepared.

I acknowledge the hard work put in by Sh. S.S.Garg, SE(E) TLQA and Sh. R.R. Meena EE(E) TAS under the guidance of Sh. R.K. Singhal, Spl. DG (NR) 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) 2013.

I am sure that this Schedule of Rates will be useful to all concerned.

PLACE

: NEW DELHI

DATE

: July ' 2013

(V.K.Gupta)

Director General, CPWD







#### **PREFACE**

The Delhi Schedule of Rates (E&M) 2013 is the revised edition of Delhi Schedule of Rates (Electrical) 2012 and combines Schedule of Rates for Electrical Works Part-Internal, Part-II External and Schedule of Rates for items relating to plumbing, ducting and AHU of HVAC works.

Under chapter 1– wiring, FRLS wires in place of FR wires have been adopted due to the superior fire properties. New items like CAT 6 cable in chapter-1, 4 pole MCCB's in chapter-2 and sandwich type rising mains in chapter-3 have also been added.

A new chapter on lighting control has been added as chapter 15 in which items for occupancy sensor, daylight sensor and astronomical time switches have been added.

In this DSR under chapter 16 items of low side of HVAC works have been considered for the first time. The items included here are chilled water pipes, condenser water pipes, insulation on existing pipes, valves, ducting, insulation, acoustic lining, grills and diffusers etc. The items for chilled water pipes insulation have been conceived with three types of insulation namely resin bonded fibre glass, expanded polystyrene and nitrile rubber. However, AHUs have also been added here to facilitate detailed estimation of HVAC.

This Schedule of Rates is based on the study of current market rates of materials at Delhi collected during May-June 2013 and labour rates are the current minimum wages issued by the Government of Delhi w.e.f. 01-04-2013.

This Schedule of Rates will be read along with relevant CPWD Specifications for Electrical Works. The Delhi schedule of Rates (E&M) 2013 now replaces the Delhi Schedule of Rates (Electrical) 2012 .

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, Vidyut Bhawan, New Delhi -110001 (Telephone No. 011-23413837 & 011-23411136).

PLACE : NEW DELHI DATE : July 2013

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#### 0 - GENERAL NOTE

The Schedule of Rate(E&M)-2013 has been prepared on the following.

- 1. The items of works 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-2013.
- 2. The rates of labour and material have been provided in appendix-I & II
- 3. 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.
- 4. The rates in this DSR are for working height upto 4.5 meter from floor level wherever height not specified.
- 5. For electrical panels, CPWD General Specification for Electrical Works Part-IV shall be applicable.
- 6. The rates of material are for reputed brands, factory fabricated and tested where ever available from manufacturers as submitted by field units.
- 7. 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. 2012.
- 8. While preparing Analysis of rates the Labour cess has not been included and same shall be taken in justification as per prevailing norms.
- 9. 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.

#### **CHAPTER 1 - WIRING**

| Item<br>Code | Description  | Unit         | Rate<br>₹ |
|--------------|--|--------------|-----------|
|              | 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        | 621       |
| 1.1.2        | Group B  | Point        | 779       |
| 1.1.3        | Group C  | Point        | 967       |
| 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        | 973       |
| 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        | 665       |
| 1.3.2        | Group B  | Point        | 822       |
| 1.3.3        | Group C  | Point        | 1011      |
| 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 at a s required  | Doint        | 1112      |
| 1.5          | copper conductor single core cable etc as required.  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.  | Point  Metre | 242       |
| 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   | INIGU C      | 242       |
|              | conductor single core cable for loop earthing as required.   | Metre        | 375       |

| Item<br>Code | Description   | Unit  | Rate<br>₹ |
|--------------|---|-------|-----------|
| 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 | 183       |
| 1.7.2        | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire  | Metre | 207       |
| 1.7.3        | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire  | Metre | 238       |
| 1.7.4        | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire  | Metre | 309       |
| 1.7.5        | 2 X 10 sq. mm + 1 X 10 sq. mm earth wire  | Metre | 409       |
| 1.7.6        | 2 X 16 sq. mm + 1 X 16 sq. mm earth wire  | Metre | 565       |
| 1.7.7        | 4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire  | Metre | 310       |
| 1.7.8        | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire  | Metre | 381       |
| 1.7.9        | 4 X 6 sq. mm + 2 X 6 sq. mm earth wire  | Metre | 495       |
| 1.7.10       | 4 X 10 sq. mm + 2 X 10 sq. mm earth wire  | Metre | 789       |
| 1.7.11       | 4 X 16 sq. mm + 2 X 16 sq. mm earth wire  | Metre | 1105      |
|              | WIRING IN PVC CONDUIT   |       |           |
| 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 | 467       |
| 1.8.2        | Group B   | Point | 548       |
| 1.8.3        | Group C   | Point | 682       |
| 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 | 688       |
| 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 | 512       |
| 1.10.2       | Group B   | Point | 593       |
| 1.10.3       | Group C   | Point | 727       |
| 1.11         | Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.   | Point | 782       |
| 1.12         | Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium  |       |           |

| Item<br>Code   | Description  | Unit  | Rate<br>₹ |
|----------------|--|-------|-----------|
|                | class PVC conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.   | Metre | 171       |
| 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 | 278       |
| 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 | 116       |
| 1.14.2         | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire   | Metre | 140       |
| 1.14.3         | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire   | Metre | 171       |
| 1.14.4         | 2 X 6 sq. mm + 1 X 6 sq. mm earth wire   | Metre | 216       |
| 1.14.5         | 2 X 10 sq. mm + 1 X 10 sq. mm earth wire   | Metre | 320       |
| 1.14.6         | 2 X 16 sq. mm + 1 X 16 sq. mm earth wire   | Metre | 441       |
| 1.14.7         | 4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire   | Metre | 214       |
| 1.14.8         | 4 X 4 sq. mm + 2 X 4 sq. mm earth wire   | Metre | 278       |
| 1.14.9         | 4 X 6 sq. mm + 2 X 6 sq. mm earth wire   | Metre | 371       |
| 1.14.10        | 4 X 10 sq. mm + 2 X 10 sq. mm earth wire   | Metre | 575       |
| 1.14.11        | 4 X 16 sq. mm + 2 X 16 sq. mm earth wire   | Metre | 803       |
| 1.15<br>1.15.1 | 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 /PVC conduit including dismantling as required.  Group A | Point | 272       |
| 1.15.2         | Group B  | Point | 312       |
| 1.15.3         | Group C  | Point | 428       |
| 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 / PVC conduit including dismantling as required.   | Point | 428       |
| 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 | 21        |
| 1.17.2         | 2 x 1.5 sq. mm   | Metre | 35        |
| 1.17.3         | 3 x 1.5 sq. mm   | Metre | 52        |
| 1.17.4         | 4 x 1.5 sq. mm   | Metre | 66        |
| 1.17.5         | 5 x 1.5 sq. mm   | Metre | 83        |
| 1.17.6         | 6 x 1.5 sq. mm   | Metre | 96        |

| ltem<br>Code | Description   | Unit  | Rate<br>₹ |
|--------------|---|-------|-----------|
| 1.17.7       | 7 x 1.5 sq. mm  | Metre | 117       |
| 1.17.8       | 8 x 1.5 sq. mm  | Metre | 131       |
| 1.17.9       | 9 x 1.5 sq. mm  | Metre | 152       |
| .17.10       | 10 x 1.5 sq. mm   | Metre | 165       |
| .17.11       | 2 x 2.5 sq. mm  | Metre | 51        |
| .17.12       | 3 x 2.5 sq. mm  | Metre | 77        |
| .17.13       | 4 x 2.5 sq. mm  | Metre | 98        |
| 17.14        | 5 x 2.5 sq. mm  | Metre | 124       |
| 17.15        | 6 x 2.5 sq. mm  | Metre | 145       |
| 17.16        | 7 x 2.5 sq. mm  | Metre | 175       |
| 17.17        | 8 x 2.5 sq. mm  | Metre | 196       |
| 17.18        | 9 x 2.5 sq. mm  | Metre | 226       |
| 17.19        | 10 x 2.5 sq. mm   | Metre | 247       |
| .17.20       | 2 x 4 sq. mm  | Metre | 79        |
| .17.21       | 3 x 4 sq. mm  | Metre | 111       |
| 17.22        | 4 x 4 sq. mm  | Metre | 143       |
| 17.23        | 5 x 4 sq. mm  | Metre | 176       |
| 17.24        | 6 x 4 sq. mm  | Metre | 208       |
| .17.25       | 7 x 4 sq. mm  | Metre | 241       |
| 17.26        | 8 x 4 sq. mm  | Metre | 272       |
| 17.27        | 9 x 4 sq. mm  | Metre | 306       |
| 17.28        | 10 x 4 sq. mm   | Metre | 349       |
| 17.29        | 2 x 6 sq. mm  | Metre | 103       |
| .17.30       | 3 x 6 sq. mm  | Metre | 148       |
| .17.31       | 4 x 6 sq. mm  | Metre | 199       |
| 17.32        | 5 x 6 sq. mm  | Metre | 243       |
| 17.33        | 6 x 6 sq. mm  | Metre | 295       |
| 17.34        | 7 x 6 sq. mm  | Metre | 339       |
| 17.35        | 8 x 6 sq. mm  | Metre | 385       |
| 17.36        | 9 x 6 sq. mm  | Metre | 430       |
| 17.37        | 10 x 6 sq. mm   | Metre | 474       |
| .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. |       |           |
| .18.1        | 1 Pair  | Metre | 12        |
| 18.2         | 2 Pair  | Metre | 17        |
| 18.3         | 4 Pair  | Metre | 26        |
| .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      |       | 00        |
|              | surface/ recessed steel/ PVC conduit as required.   | Metre | 23        |

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 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 | 131       |
| 1.20.2       | 25 mm  | Metre | 152       |
| 1.20.3       | 32 mm  | Metre | 203       |
| 1.20.4       | 40 mm  | Metre | 301       |
| 1.20.5       | 50 mm  | Metre | 404       |
| 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 | 64        |
| 1.21.2       | 25 mm  | Metre | 72        |
| 1.21.3       | 32 mm  | Metre | 91        |
| 1.21.4       | 40 mm  | Metre | 117       |
| 1.21.5       | 50 mm  | Metre | 152       |
| 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  | 82        |
| 1.22.2       | 100 mm X 100 mm X 60 mm deep   | Each  | 100       |
| 1.22.3       | 150 mm X 75 mm X 60 mm deep  | Each  | 103       |
| 1.22.4       | 150 mm X 150 mm X 60 mm deep   | Each  | 150       |
| 1.22.5       | 180 mm X 100 mm X 60 mm deep   | Each  | 120       |
| 1.22.6       | 200 mm X 125 mm X 60 mm deep   | Each  | 155       |
| 1.22.7       | 200 mm X 150 mm X 60 mm deep   | Each  | 174       |
| 1.22.8       | 200 mm X 150 mm X 75 mm deep   | Each  | 181       |
| 1.22.9       | 200 mm X 250 mm X 60 mm deep   | Each  | 230       |
| 1.22.10      | 200 mm X 250 mm X 75 mm deep   | Each  | 244       |
| 1.22.11      | 200 mm X 150 mm X 100 mm deep  | Each  | 209       |
| 1.22.12      | 200 mm X 250 mm X 100 mm deep  | Each  | 276       |
| 1.22.13      | 200 mm X 300 mm X 60 mm deep   | Each  | 275       |
| 1.22.14      | 200 mm X 300 mm X 100 mm deep  | Each  | 289       |
| 1.22.15      | 250 mm X 300 mm X 60 mm deep   | Each  | 307       |
| 1.22.16      | 250 mm X 300 mm X 100 mm deep  | Each  | 341       |
| 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  | 32        |
| 1.23.2       | 2 way 5/6 amps switch  | Each  | 37        |
| 1.23.3       | 15/16 amp switch   | Each  | 64        |

| Item<br>Code | Description  | Unit | Rate<br>₹ |
|--------------|--|------|-----------|
| 1.23.4       | 3 pin 5/6 amp socket outlet  | Each | 38        |
| 1.23.5       | 6 pin 15/16 amp socket outlet  | Each | 75        |
| 1.23.6       | Telephone socket outlet  | Each | 54        |
| 1.23.7       | TV antenna socket outlet   | Each | 42        |
| 1.23.8       | Bell push  | Each | 40        |
| 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 | 77        |
| 1.24.2       | 2 way 5/6 amps switch  | Each | 99        |
| 1.24.3       | 15/16 amp switch   | Each | 114       |
| 1.24.4       | 3 pin 5/6 amp socket outlet  | Each | 101       |
| 1.24.5       | 6 pin 15/16 amp socket outlet  | Each | 163       |
| 1.24.6       | Telephone socket outlet  | Each | 92        |
| 1.24.7       | TV antenna socket outlet   | Each | 94        |
| 1.24.8       | Bell push  | Each | 105       |
| 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 | 362       |
| 1.26         | Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.  | Each | 23        |
| 1.27         | Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.  |      |           |
| 1.27.1       | 1 or 2 Module (75mmX75mm)  | Each | 159       |
| 1.27.2       | 3 Module (100mmX75mm)  | Each | 172       |
| 1.27.3       | 4 Module (125mmX75mm)  | Each | 197       |
| 1.27.4       | 6 Module (200mmX75mm)  | Each | 241       |
| 1.27.5       | 8 Module (125mmX125mm)   | Each | 271       |
| 1.27.6       | 12 Module (200mmX150mm)  | Each | 365       |
| 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 | 73        |
| 1.28.2       | 3 Module   | Each | 82        |
| 1.28.3       | 4 Module   | Each | 91        |
| 1.28.4       | 6 Module   | Each | 109       |
| 1.28.5       | 8 Module   | Each | 135       |
| 1.28.6       | 12 Module  | Each | 183       |
| 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 | 181       |

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 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  | 250       |
| 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  | 320       |
| 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  | 411       |
| 1.33         | Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.  | Each  | 42        |
| 1.34         | Supplying and fixing brass batten/ angle holder including connection etc. as required.   | Each  | 64        |
| 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  | 47        |
| 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  | 146       |
| 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  | 178       |
| 1.38         | Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts, complete as required.   | Each  | 60        |
| 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 | 20        |
| 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 | 18        |
| 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  | 82        |
| 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   |       |           |

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
|              | 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  | 218       |
| 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  | 30        |
| 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  | 87        |
| 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  | 112       |
| 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  | 48        |
| 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  | 21        |
| 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  | 23        |
| 1.49         | Numbering of ceiling fan/ exhaust fan/ fluorescent fittings as required.   | Each  | 24        |
| 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  | 189       |
| 1.50.2       | 510 mm sweep   | Each  | 264       |
| 1.51         | Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.   | Each  | 81        |
| 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  | 76        |
| 1.53         | Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/ PVC conduit as required.  | per m | 31        |

### **CHAPTER 2 - MCCB, MCB & DB'S**

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
| 2.1          | Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required. |      |           |
| 2.1.1        | 32 Amp TP&N   | Each | 1524      |
| 2.1.2        | 63 Amp TP&N   | Each | 2097      |
| 2.1.3        | 100 Amp TP&N  | Each | 4217      |
| 2.1.4        | 125 Amp TP&N  | Each | 5595      |
| 2.1.5        | 160 Amp TP&N  | Each | 6221      |
| 2.1.6        | 200 Amp TP&N  | Each | 6554      |
| 2.1.7        | 320 Amp TP&N  | Each | 10952     |
| 2.1.8        | 400 Amp TP&N  | Each | 12782     |
| 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 | 3032      |
| 2.2.2        | 125 Amp, 16 KA,TPMCCB   | Each | 4233      |
| 2.2.3        | 160 Amp, 16 KA,TPMCCB   | Each | 5181      |
| 2.2.4        | 200 Amp, 16 KA,TPMCCB   | Each | 7488      |
| 2.2.5        | 200 Amp, 25 KA,TPMCCB   | Each | 7883      |
| 2.2.6        | 250 Amp, 25 KA,TPMCCB   | Each | 10341     |
| 2.2.7        | 250 Amp, 35 KA,TPMCCB   | Each | 14766     |
| 2.2.8        | 315 Amp, 35 KA,TPMCCB   | Each | 17942     |
| 2.2.9        | 400 Amp, 35 KA,TPMCCB   | Each | 17942     |
| 2.2.10       | 500 Amp, 35 KA,TPMCCB   | Each | 20667     |
| 2.2.11       | 630 Amp, 50 KA,TPMCCB   | Each | 21378     |
| 2.2.12       | 800 Amp, 50 KA,TPMCCB   | Each | 27464     |
| 2.2.13       | 100Amp,30KA,FPMCCB  | Each | 4647      |
| 2.2.14       | 125Amp,36KA,FPMCCB  | Each | 6622      |
| 2.2.15       | 200Amp,36KA,FPMCCB  | Each | 10995     |
| 2.2.16       | 250Amp,36KA,FPMCCB  | Each | 12831     |
| 2.2.17       | 250Amp,50KA,FPMCCB  | Each | 21507     |
| 2.2.18       | 400Amp,50KA,FPMCCB  | Each | 26036     |
| 2.2.19       | 630Amp,50KA,FPMCCB  | Each | 32195     |

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
| 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        | 2 + 4 way, Single door  | Each | 531       |
| 2.3.2        | 2 + 6 way, Single door  | Each | 575       |
| 2.3.3        | 2 + 8 way, Single door  | Each | 619       |
| 2.3.4        | 2 + 12 way, Single door   | Each | 776       |
| 2.3.5        | 2 + 4 way, Double door  | Each | 780       |
| 2.3.6        | 2 + 6 way, Double door  | Each | 867       |
| 2.3.7        | 2 + 8 way, Double door  | Each | 954       |
| 2.3.8        | 2 + 12 way, Double door   | Each | 1185      |
| 2.4          | Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)  |      |           |
| 2.4.1        | 4 way (4 + 12), Single door   | Each | 1367      |
| 2.4.2        | 6 way (4 + 18), Single door   | Each | 1591      |
| 2.4.3        | 8 way (4 + 24), Single door   | Each | 1752      |
| 2.4.4        | 4 way (4 + 12), Double door   | Each | 1833      |
| 2.4.5        | 6 way (4 + 18), Double door   | Each | 2265      |
| 2.4.6        | 8 way (4 + 24), Double door   | Each | 2795      |
| 2.5          | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required. (Note: Vertical type MCB TPDB is normally used where 3 phase outlets are required.)                                 |      |           |
| 2.5.1        | 4 way (4 + 12), Single door   | Each | 2973      |
| 2.5.2        | 8 way (4 + 24), Single door   | Each | 4117      |
| 2.5.3        | 12 way (4 + 36), Single door  | Each | 5250      |
| 2.5.4        | 4 way (4 + 12), Double door   | Each | 4258      |
| 2.5.5        | 8 way (4 + 24), Double door   | Each | 5364      |
| 2.5.6        | 12 way (4 + 36), Double door  | Each | 6817      |
| 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 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.)  |      |           |

| 2.6.2 8 V 2.6.3 12 2.7 Sup book with out instance of the second of the second out in | Vay TP  Way TP  Way TP  pplying and fixing following way prewired SP&N MCB distribution ard of steel sheet for 240 volts on surface/ recess complete th loose wire box, terminal connectors for all incoming and tgoing circuits, duly prewired with suitable size FRLS PVC sulated copper conductor up to terminal blocks, tinned copper s bar, neutral link, earth bar, din bar, detachable gland plate, erconnections, powder painted including earthing etc. as quired. (But without MCB/ RCCB/ Isolator)  4 way, Single door  4 way, Single door  4 way, Double door  8 way, Double door  | Each Each Each Each Each Each | 5260<br>6703<br>9075<br>1903<br>2265<br>2648 |
|--|--|-------------------------------|--|
| 2.6.3 12 2.7 Suppose with outsins bus interested 2.7.1 2 + 2.7.2 2 + 2.7.3 2 + 2.7.5 2 + 2.7.6 2 + 2.8 Suppose with outsins bus bus bus a suppose with outsins bus suppose with suppose with outsins bus suppose with | Way TP  pplying and fixing following way prewired SP&N MCB distribution ard of steel sheet for 240 volts on surface/ recess complete th loose wire box, terminal connectors for all incoming and tgoing circuits, duly prewired with suitable size FRLS PVC sulated copper conductor up to terminal blocks, tinned copper s bar, neutral link, earth bar, din bar, detachable gland plate, erconnections, powder painted including earthing etc. as quired. (But without MCB/ RCCB/ Isolator)  4 way, Single door  4 way, Single door  4 way, Double door  8 way, Double door  | Each<br>Each<br>Each<br>Each  | 9075<br>1903<br>2265                         |
| 2.7 Sup book with out ins bus interested 2.7.1 2 + 2.7.2 2 + 2.7.3 2 + 2.7.4 2 + 2.7.5 2 + 2.7.6 2 + 2.8 Sup book with out ins bus bus seen as a sup bus bus bus seen as a sup book with out in the sup book with ou | pplying and fixing following way prewired SP&N MCB distribution ard of steel sheet for 240 volts on surface/ recess complete th loose wire box, terminal connectors for all incoming and tgoing circuits, duly prewired with suitable size FRLS PVC sulated copper conductor up to terminal blocks, tinned copper s bar, neutral link, earth bar, din bar, detachable gland plate, erconnections, powder painted including earthing etc. as quired. (But without MCB/ RCCB/ Isolator)  4 way, Single door  4 way, Single door  4 way, Double door  8 way, Double door  | Each<br>Each<br>Each<br>Each  | 1903<br>2265                                 |
| 2.7.1 2 + 2.7.2 2 + 2.7.3 2 + 2.7.6 2 + 2.8 Suppose with outlins bus suppose with outlins bus suppose  | ard of steel sheet for 240 volts on surface/ recess complete th loose wire box, terminal connectors for all incoming and tgoing circuits, duly prewired with suitable size FRLS PVC sulated copper conductor up to terminal blocks, tinned copper is bar, neutral link, earth bar, din bar, detachable gland plate, erconnections, powder painted including earthing etc. as quired. (But without MCB/ RCCB/ Isolator)  4 way, Single door  8 way, Single door  4 way, Double door  8 way, Double door   | Each<br>Each<br>Each          | 2265   |
| 2.7.2 2 + 2.7.3 2 + 2.7.4 2 + 2.7.5 2 + 2.7.6 2 + 2.8 Suppose with outlins bus   | - 8 way, Single door<br>- 12 way, Single door<br>- 4 way, Double door<br>- 8 way, Double door  | Each<br>Each<br>Each          | 2265   |
| 2.7.3 2 + 2.7.4 2 + 2.7.5 2 + 2.7.6 2 + 2.8 Suppose with outlins bus   | - 12 way, Single door<br>- 4 way, Double door<br>- 8 way, Double door  | Each<br>Each                  |  |
| 2.7.4 2 + 2.7.5 2 + 2.7.6 2 + 2.8 Sup book with out ins bus  | 4 way, Double door<br>8 way, Double door   | Each                          | 2648   |
| 2.7.5 2 + 2.7.6 2 + 2.8 Sup boo wit out ins bus  | · 8 way, Double door   |                               |  |
| 2.7.6 2 + 2.8 Sup boo wit out ins bus  | •  |                               | 2381   |
| 2.8 Sup<br>box<br>wit<br>out<br>ins<br>bus   | 12 way Double door   | Each                          | 2844   |
| boa<br>wit<br>out<br>ins<br>bus  | 12 way, Double door  | Each                          | 3432   |
|  | pplying and fixing following way prewired TP&N MCB distribution ard of steel sheet for 415 volts on surface/ recess complete th loose wire box, terminal connectors for all incoming and tgoing circuits, duly prewired with suitable size FRLS PVC sulated copper conductor up to terminal blocks, tinned copper s bar, neutral link, earth bar, din bar, detachable gland plate, erconnections, powder painted including earthing etc. as quired.(But without MCB/ RCCB/ Isolator)   |                               |  |
| 2.8.1 4 w  | vay (4 + 12), Single door  | Each                          | 6116   |
| 2.8.2 6 w  | vay (4 + 18), Single door  | Each                          | 7887   |
| 2.8.3 8 w  | vay (4 + 24), Single door  | Each                          | 9024   |
| 2.8.4 12   | way (4 + 36), Single door  | Each                          | 11082  |
| 2.8.5 4 w  | vay (4 + 12), Double door  | Each                          | 6997   |
| 2.8.6 6 w  | vay (4 + 18), Double door  | Each                          | 9034   |
| 2.8.7 8 w  | vay (4 + 24), Double door  | Each                          | 9899   |
| 2.8.8 12   | way (4 + 36), Double door  | Each                          | 12163  |
| MC<br>rec<br>dul<br>bar<br>teri<br>pre<br>cor<br>as<br>ver   | pplying and fixing following way prewired vertical type TP&N CB distribution board of steel sheet for 415 volts on surface/cess complete with loose wire box of sheet steel, dust protected, ly powder painted, inclusive of 200 amps tinned copper bus r, common neutral link, earth bar, din bar for mounting MCB's, minal connectors for all incoming and outgoing circuits, duly ewired with adequate size of FRLS PVC insulated copper inductor upto the terminal connector/ neutral link, earthing etc required (But without MCB/ RCCB/ Isolator). (Note: Prewired rtical type MCB TPDB is normally used where 3 phase outlets be required.) |                               |  |
|  | vay Single door  | Each                          | 6569   |

| Item<br>Code | Description  | Unit | Rate<br>₹ |
|--------------|--|------|-----------|
| 2.9.2        | 6 way Single door  | Each | 8481      |
| 2.9.3        | 8 way Single door  | Each | 9638      |
| 2.9.4        | 12 way Single door   | Each | 12797     |
| 2.9.5        | 4 way Double door  | Each | 7515      |
| 2.9.6        | 6 way Double door  | Each | 9708      |
| 2.9.7        | 8 way Double door  | Each | 10584     |
| 2.9.8        | 12 way Double door   | Each | 14055     |
| 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 | 146       |
| 2.10.2       | Single pole and neutral  | Each | 399       |
| 2.10.3       | Double pole  | Each | 412       |
| 2.10.4       | Triple pole  | Each | 610       |
| 2.10.5       | Triple pole and neutral  | Each | 784       |
| 2.11         | Supplying and fixing single pole blanking plate in the existing  |      |           |
|              | MCB DB complete etc. as required.  | Each | 6         |
| 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 | 267       |
| 2.12.2       | 63 amps  | Each | 330       |
| 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 | 604       |
| 2.13.2       | 63 amps  | Each | 614       |
| 2.13.3       | 100 amps   | Each | 772       |
| 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 MCB DB complete with connections, testing and commissioning etc. as required. |      |           |
| 2.14.1       | 25 amps  | Each | 1427      |
| 2.14.2       | 40 amps  | Each | 1510      |
| 2.14.3       | 63 amps  | Each | 1974      |
| 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 | 1819      |

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
| 2.15.2       | 40 amps   | Each | 1845      |
| 2.15.3       | 63 amps   | Each | 2128      |
| 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 | 629       |
| 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 | 850       |
| 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 | 796       |
| 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 | 1869      |
| 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 | 2156      |
| 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 | 133       |
| 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 | 146       |



#### **CHAPTER 3 - RISING MAINS & BUS TRUNKING**

| Item<br>Code | Description   | Unit  | Rate<br>₹ |
|--------------|---|-------|-----------|
| 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 confirming to IS 8623, TEC 439) |       |           |
| 3.1.1        | 200 amps (S.C. rating for 1 sec - 15 KA)  | Metre | 4924      |
| 3.1.2        | 315 amps (S.C. rating for 1 sec - 20 KA)  | Metre | 5136      |
| 3.1.3        | 400 amps (S.C. rating for 1 sec - 25 KA)  | Metre | 6320      |
| 3.1.4        | 630 amps (S.C. rating for 1 sec - 45 KA)  | Metre | 7070      |
| 3.1.5        | 800 amps (S.C. rating for 1 sec - 50 KA)  | Metre | 8519      |
| 3.2          | Supplying, installing, testing and commissioning of following capacity TPN tap off box made of 1.6mm thick sheet steel enclosure duly painted with powder coating on existing rising mains complete with TPN disconnector FSU and HRC fuses, connections, earthing etc. as required.  |       |           |
| 3.2.1        | 16 amps TPN   | Each  | 5625      |
| 3.2.2        | 32 amps TPN   | Each  | 5927      |
| 3.2.3        | 63 amps TPN   | Each  | 6656      |
| 3.2.4        | 100 amps TPN  | Each  | 7665      |
| 3.2.5        | 200 amps TPN  | Each  | 12034     |
| 3.2.6        | 315 amps TPN  | Each  | 12740     |
| 3.2.7        | 400 amps TPN  | Each  | 13244     |
| 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  | 8422      |
| 3.3.2        | 16 amps TPN, 4 way  | Each  | 15736     |
| 3.3.3        | 16 amps TPN, 6 way  | Each  | 22309     |
| 3.3.4        | 16 amps TPN, 8 way  | Each  | 30900     |
| 3.3.5        | 32 amps TPN, 2 way  | Each  | 8674      |
| 3.3.6        | 32 amps TPN, 4 way  | Each  | 17754     |
| 3.3.7        | 32 amps TPN, 6 way  | Each  | 23318     |

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 3.3.8        | 32 amps TPN, 8 way   | Each  | 32413     |
| 3.3.9        | 63 amps TPN, 2 way   | Each  | 9885      |
| 3.3.10       | 63 amps TPN, 4 way   | Each  | 17754     |
| 3.3.11       | 63 amps TPN, 6 way   | Each  | 24831     |
| 3.3.12       | 63 amps TPN, 8 way   | Each  | 34431     |
| 3.4          | Supplying, installing, testing and commissioning of following capacity End Feed Unit made of 1.6mm thick sheet steel enclosure duly painted with powder coating to existing rising mains complete with TPN disconnector FSU and HRC fuses, mounting stands, cable end box, brass compression gland, connections, earthing etc. as required.  |       |           |
| 3.4.1        | 200 amps TPN   | Each  | 14148     |
| 3.4.2        | 300 amps TPN   | Each  | 15546     |
| 3.4.3        | 400 amps TPN   | Each  | 17228     |
| 3.4.4        | 600 amps TPN   | Each  | 18655     |
| 3.4.5        | 800 amps TPN   | Each  | 21017     |
| 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 | 8062      |
| 3.5.2        | 1000 amps  | Metre | 9525      |
| 3.5.3        | 1250 amps  | Metre | 12235     |
| 3.5.4        | 1400 amps  | Metre | 15262     |
| 3.5.5        | 1600 amps  | Metre | 15293     |
| 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 | 4682      |
| 3.6.2        | 400 amps   | Metre | 5993      |
| 3.7          | Supplying, installing, testing and commissioning of following capacity TPN tap off box / plug-in box made of 1.6mm thick sheet steel enclosure duly painted with powder coating on existing overhead bus bar system complete with TPN disconnector FSU and HRC fuses, connections, earthing etc. as required.  |       |           |
| 3.7.1        | 32 amps  | Each  | 5091      |

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 3.7.2        | 63 amps  | Each  | 5719      |
| 3.7.3        | 100 amps   | Each  | 6584      |
| 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 | 5091      |
| 3.8.2        | 315 amps 25KA SC for 1 sec   | Metre | 5495      |
| 3.8.3        | 400 amps 30KA SC for 1 sec   | Metre | 6101      |
| 3.8.4        | 500 amps 35KA SC for 1 sec   | Metre | 7007      |
| 3.8.5        | 630 amps 50KA SC for 1 sec   | Metre | 8350      |
| 3.8.6        | 800 amps 50KA SC for 1 sec   | Metre | 11483     |
| 3.8.7        | 1000 amps 50KA SC for 1 sec  | Metre | 13356     |
| 3.8.8        | 1250 amps 50KA SC for 1 sec  | Metre | 15797     |
| 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 | 5579      |
| 3.9.2        | 315 amps 25KA SC for 1 sec   | Metre | 6317      |
| 3.9.3        | 400 amps 30KA SC for 1 sec   | Metre | 6688      |
| 3.9.4        | 500 amps 35KA SC for 1 sec   | Metre | 7682      |
| 3.9.5        | 630 amps 50KA SC for 1 sec   | Metre | 9157      |
| 3.9.6        | 800 amps 50KA SC for 1 sec   | Metre | 12417     |
| 3.9.7        | 1000 amps 50KA SC for 1 sec  | Metre | 14456     |
| 3.9.8        | 1250 amps 50KA SC for 1 sec  | Metre | 17349     |
| 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  |       |           |

| Item<br>Code | Description   | Unit  | Rate<br>₹ |
|--------------|---|-------|-----------|
|              | 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 | 5612      |
| 3.10.2       | 315 amps 25KA SC for 1 sec  | Metre | 6350      |
| 3.10.3       | 400 amps 30KA SC for 1 sec  | Metre | 6721      |
| 3.10.4       | 500 amps 35KA SC for 1 sec  | Metre | 7723      |
| 3.10.5       | 630 amps 50KA SC for 1 sec  | Metre | 9198      |
| 3.10.6       | 800 amps 50KA SC for 1 sec  | Metre | 12458     |
| 3.10.7       | 1000 amps 50KA SC for 1 sec   | Metre | 14513     |
| 3.10.8       | 1250 amps 50KA SC for 1 sec   | Metre | 17406     |
| 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  | 3800      |
| 3.11.2       | 315 amps 25KA SC for 1 sec  | Each  | 3957      |
| 3.11.3       | 400 amps 30KA SC for 1 sec  | Each  | 5038      |
| 3.11.4       | 500 amps 35KA SC for 1 sec  | Each  | 5273      |
| 3.11.5       | 630 amps 50KA SC for 1 sec  | Each  | 6440      |
| 3.11.6       | 800 amps 50KA SC for 1 sec  | Each  | 8047      |
| 3.11.7       | 1000 amps 50KA SC for 1 sec   | Each  | 8518      |
| 3.11.8       | 1250 amps 50KA SC for 1 sec   | Each  | 8988      |
| 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  | 4388      |
| 3.12.2       | 200 amps 25KA SC for 1 sec  | Each  | 5564      |
| 3.12.3       | 250 amps 30KA SC for 1 sec  | Each  | 7154      |
| 3.12.4       | 400 amps 35KA SC for 1 sec  | Each  | 7154      |
| 3.12.5       | 500 amps 50KA SC for 1 sec  | Each  | 10321     |
| 3.12.6       | 630 amps 50KA SC for 1 sec  | Each  | 10321     |
| 3.13         | Supplying, installing by suspension on ceiling, testing and commissioning of following capacity <b>Sandwich</b> Type Bus Trunking for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal  |       |           |

| Item    | Description  | Unit  | Rate  |
|---------|--|-------|-------|
| Code    |  |       | ₹     |
|         | 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   | per m | 9037  |
| 3.13.2  | 500 amps 30KA SC for 1 sec   | per m | 9835  |
| 3.13.3  | 630 amps 50KA SC for 1 sec   | per m | 10621 |
| 3.13.4  | 800 amps 50KA SC for 1 sec   | per m | 12884 |
| 3.13.5  | 1000 amps 50KA SC for 1 sec  | per m | 14500 |
| 3.13.6  | 1250 amps 50KA SC for 1 sec  | per m | 16522 |
| 3.13.7  | 1600 amps 50KA SC for 1 sec  | per m | 20790 |
| 3.13.8  | 2000 amps 50KA SC for 1 sec  | per m | 24419 |
| 3.13.9  | 2500 amps 50KA SC for 1 sec  | per m | 32993 |
| 3.13.10 | 3200 amps 50KA SC for 1 sec  | per m | 36986 |
| 3.13.11 | 4000 amps 50KA SC for 1 sec  | per m | 47350 |



### **CHAPTER 4 - CABLE TRAYS**

| Item<br>Code | Description   | Unit  | Rate<br>₹ |
|--------------|---|-------|-----------|
| 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 | 459       |
| 4.1.2        | 150 mm width X 50 mm depth X 1.6 mm thickness   | Metre | 523       |
| 4.1.3        | 200 mm width X 50 mm depth X 1.6 mm thickness   | Metre | 640       |
| 4.1.4        | 300 mm width X 50 mm depth X 1.6 mm thickness   | Metre | 756       |
| 4.1.5        | 375 mm width X 50 mm depth X 2.0 mm thickness   | Metre | 941       |
| 4.1.6        | 450 mm width X 50 mm depth X 2.0 mm thickness   | Metre | 1082      |
| 4.1.7        | 600 mm width X 50 mm depth X 2.0 mm thickness   | Metre | 1338      |
| 4.1.8        | 300 mm width X 62.5 mm depth X 2.0 mm thickness   | Metre | 841       |
| 4.1.9        | 375 mm width X 62.5 mm depth X 2.0 mm thickness   | Metre | 940       |
| 4.1.10       | 450 mm width X 62.5 mm depth X 2.0 mm thickness   | Metre | 1138      |
| 4.1.11       | 600 mm width X 62.5 mm depth X 2.0 mm thickness   | Metre | 1399      |
| 4.1.12       | 750 mm width X 62.5 mm depth X 2.0 mm thickness   | Metre | 1632      |
| 4.1.13       | 900 mm width X 62.5 mm depth X 2.0 mm thickness   | Metre | 1944      |
| 4.1.14       | 600 mm width X 75 mm depth X 2.0 mm thickness   | Metre | 1440      |
| 4.1.15       | 750 mm width X 75 mm depth X 2.0 mm thickness   | Metre | 1665      |
| 4.1.16       | 900 mm width X 75 mm depth X 2.0 mm thickness   | Metre | 1973      |
| 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  | 760       |
| 4.2.2        | 150 mm width X 50 mm depth X 1.6 mm thickness   | Each  | 880       |
| 4.2.3        | 200 mm width X 50 mm depth X 1.6 mm thickness   | Each  | 1101      |
| 4.2.4        | 300 mm width X 50 mm depth X 1.6 mm thickness   | Each  | 1329      |
| 4.2.5        | 375 mm width X 50 mm depth X 2.0 mm thickness   | Each  | 1668      |
| 4.2.6        | 450 mm width X 50 mm depth X 2.0 mm thickness   | Each  | 1936      |
| 4.2.7        | 600 mm width X 50 mm depth X 2.0 mm thickness   | Each  | 2420      |
| 4.2.8        | 300 mm width X 62.5 mm depth X 2.0 mm thickness   | Each  | 1491      |
| 4.2.9        | 375 mm width X 62.5 mm depth X 2.0 mm thickness   | Each  | 1757      |
| 4.2.10       | 450 mm width X 62.5 mm depth X 2.0 mm thickness   | Each  | 2042      |

| Item<br>Code | Description  | Unit | Rate<br>₹ |
|--------------|--|------|-----------|
| 4.2.11       | 600 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 2538      |
| 4.2.12       | 750 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 2977      |
| 4.2.13       | 900 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 3534      |
| 4.2.14       | 600 mm width X 75 mm depth X 2.0 mm thickness  | Each | 2616      |
| 4.2.15       | 750 mm width X 75 mm depth X 2.0 mm thickness  | Each | 3046      |
| 4.2.16       | 900 mm width X 75 mm depth X 2.0 mm thickness  | Each | 3589      |
| 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 | 1043      |
| 4.3.2        | 150 mm width X 50 mm depth X 1.6 mm thickness  | Each | 1230      |
| 4.3.3        | 200 mm width X 50 mm depth X 1.6 mm thickness  | Each | 1559      |
| 4.3.4        | 300 mm width X 50 mm depth X 1.6 mm thickness  | Each | 1896      |
| 4.3.5        | 375 mm width X 50 mm depth X 2.0 mm thickness  | Each | 2391      |
| 4.3.6        | 450 mm width X 50 mm depth X 2.0 mm thickness  | Each | 2778      |
| 4.3.7        | 600 mm width X 50 mm depth X 2.0 mm thickness  | Each | 3488      |
| 4.3.8        | 300 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 2135      |
| 4.3.9        | 375 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 2516      |
| 4.3.10       | 450 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 2911      |
| 4.3.11       | 600 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 3644      |
| 4.3.12       | 750 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 4287      |
| 4.3.13       | 900 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 5102      |
| 4.3.14       | 600 mm width X 75 mm depth X 2.0 mm thickness  | Each | 3759      |
| 4.3.15       | 750 mm width X 75 mm depth X 2.0 mm thickness  | Each | 4392      |
| 4.3.16       | 900 mm width X 75 mm depth X 2.0 mm thickness  | Each | 5196      |
| 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 | 1328      |
| 4.4.2        | 150 mm width X 50 mm depth X 1.6 mm thickness  | Each | 1561      |
| 4.4.3        | 200 mm width X 50 mm depth X 1.6 mm thickness  | Each | 2017      |
| 4.4.4        | 300 mm width X 50 mm depth X 1.6 mm thickness  | Each | 2462      |
| 4.4.5        | 375 mm width X 50 mm depth X 2.0 mm thickness  | Each | 3112      |
| 4.4.6        | 450 mm width X 50 mm depth X 2.0 mm thickness  | Each | 3620      |
| 4.4.7        | 600 mm width X 50 mm depth X 2.0 mm thickness  | Each | 4561      |
| 4.4.8        | 300 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 2781      |
| 4.4.9        | 375 mm width X 62.5 mm depth X 2.0 mm thickness  | Each | 3277      |

| Item<br>Code | Description   | Unit | Rate |
|--------------|---|------|------|
|              |   |      | ₹    |
| 4.4.10       | 450 mm width X 62.5 mm depth X 2.0 mm thickness   | Each | 3799 |
| 4.4.11       | 600 mm width X 62.5 mm depth X 2.0 mm thickness   | Each | 4753 |
| 4.4.12       | 750 mm width X 62.5 mm depth X 2.0 mm thickness   | Each | 5604 |
| 4.4.13       | 900 mm width X 62.5 mm depth X 2.0 mm thickness   | Each | 6668 |
| 4.4.14       | 600 mm width X 75 mm depth X 2.0 mm thickness   | Each | 4906 |
| 4.4.15       | 750 mm width X 75 mm depth X 2.0 mm thickness   | Each | 5738 |
| 4.4.16       | 900 mm width X 75 mm depth X 2.0 mm thickness   | Each | 6803 |
| 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 | 618  |
| 4.5.2        | 150 mm width X 50 mm depth X 1.6 mm thickness   | Each | 701  |
| 4.5.3        | 200 mm width X 50 mm depth X 1.6 mm thickness   | Each | 876  |
| 4.5.4        | 300 mm width X 50 mm depth X 1.6 mm thickness   | Each | 1047 |
| 4.5.5        | 375 mm width X 50 mm depth X 2.0 mm thickness   | Each | 1310 |
| 4.5.6        | 450 mm width X 50 mm depth X 2.0 mm thickness   | Each | 1520 |
| 4.5.7        | 600 mm width X 50 mm depth X 2.0 mm thickness   | Each | 1852 |
| 4.5.8        | 300 mm width X 62.5 mm depth X 2.0 mm thickness   | Each | 1170 |
| 4.5.9        | 375 mm width X 62.5 mm depth X 2.0 mm thickness   | Each | 1375 |
| 4.5.10       | 450 mm width X 62.5 mm depth X 2.0 mm thickness   | Each | 1600 |
| 4.5.11       | 600 mm width X 62.5 mm depth X 2.0 mm thickness   | Each | 1985 |
| 4.5.12       | 750 mm width X 62.5 mm depth X 2.0 mm thickness   | Each | 2320 |
| 4.5.13       | 900 mm width X 62.5 mm depth X 2.0 mm thickness   | Each | 2749 |
| 4.5.14       | 600 mm width X 75 mm depth X 2.0 mm thickness   | Each | 2042 |
| 4.5.15       | 750 mm width X 75 mm depth X 2.0 mm thickness   | Each | 2370 |
| 4.5.16       | 900 mm width X 75 mm depth X 2.0 mm thickness   | Each | 2785 |



#### **CHAPTER 5 - EARTHING**

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 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   | 2781      |
| 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  | 3753      |
| 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   | 3317      |
| 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   | 4367      |
| 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   | 7889      |
| 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   | 8939      |
| 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 | 25        |
| 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 | 714       |
| 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 | 103       |
| 5.10         | Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.   | Metre | 1019      |

| Item<br>Code | Description   | Unit  | Rate<br>₹ |
|--------------|---|-------|-----------|
| 5.11         | Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.                       | Metre | 391       |
| 5.12         | Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.       | Metre | 136       |
| 5.13         | Providing and laying earth connection from earth electrode with 4.00 mm dia copper wire in 15 mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required. | Metre | 194       |
| 5.14         | Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.  | Metre | 812       |
| 5.15         | Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.  | Metre | 133       |
| 5.16         | Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.   | Metre | 34        |
| 5.17         | Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.   | Metre | 94        |
| 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 | 22        |
| 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 | 82        |
| 5.20         | Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.  | Metre | 1519      |



#### **CHAPTER 6 - LIGHTNING CONDUCTOR**

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 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.                             |       |           |
| 6.2          | complete as required.  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 | Each  | 741       |
| 6.3          | as required. Fixing of lightning conductor finial (single prong) with base plate   | Each  | 352       |
| 6.4          | including holes etc. complete as required.  Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/                                      | Each  | 142       |
| 6.5          | sweating and soldering etc as required.  Providing and fixing copper tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.   | Each  | 68        |
| 6.6          | (For horizontal run) Providing and fixing copper tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.   | Metre | 356       |
| 6.7          | (For vertical run) Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.   | Metre | 384       |
| 6.8          | (For horizontal run) Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.   | Metre | 64        |
| 6.9          | (For vertical run) Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or  | Metre | 91        |
| 6.10         | surface of wall for lightning conductor complete as required.  (For horizontal run)  Fixing of copper/ G.I. tape 20 mm X 3 mm thick on parapet or  | Metre | 32        |
| 6.11         | surface of wall for lightning conductor complete as required.  (For vertical run)  Providing and fixing testing joint, made of 20 mm X 3 mm thick  | Metre | 66        |
|              | copper strip, 125 mm long, with 4 nos. of tinned brass bolts, nuts, chuck nuts and spring washers etc. complete as required.   | Each  | 185       |
| 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  | 69        |
| 6.13         | Providing and laying copper tape 32 mm X 6 mm from earth electrode directly in ground as required.   | Metre | 1067      |
| 6.14         | Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.   | Metre | 135       |
| 6.15         | Laying copper/ G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.   | Metre | 30        |

#### **CHAPTER 7 - MV CABLE LAYING**

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 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 | 181       |
| 7.1.2        | Above 35 sq. mm and upto 95 sq. mm   | Metre | 188       |
| 7.1.3        | Above 95 sq. mm and upto 185 sq. mm  | Metre | 195       |
| 7.1.4        | Above 185 sq. mm and upto 400 sq. mm   | Metre | 215       |
| 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 | 124       |
| 7.2.2        | Above 35 sq. mm and upto 95 sq. mm   | Metre | 131       |
| 7.2.3        | Above 95 sq. mm and upto 185 sq. mm  | Metre | 138       |
| 7.2.4        | Above 185 sq. mm and upto 400 sq. mm   | Metre | 159       |
| 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 | 79        |
| 7.3.2        | Above 35 sq. mm and upto 95 sq. mm   | Metre | 86        |
| 7.3.3        | Above 95 sq. mm and upto 185 sq. mm  | Metre | 92        |
| 7.3.4        | Above 185 sq. mm and upto 400 sq. mm   | Metre | 113       |
| 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 | 50        |
| 7.4.2        | Above 35 sq. mm and upto 95 sq. mm   | Metre | 57        |
| 7.4.3        | Above 95 sq. mm and upto 185 sq. mm  | Metre | 63        |
| 7.4.4        | Above 185 sq. mm and upto 400 sq. mm   | Metre | 84        |
| 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.  |       |           |

| ltem<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 7.5.1        | Upto 35 sq. mm   | Metre | 15        |
| 7.5.2        | Above 35 sq. mm and upto 95 sq. mm   | Metre | 23        |
| 7.5.3        | Above 95 sq. mm and upto 185 sq. mm  | Metre | 30        |
| 7.5.4        | Above 185 sq. mm and upto 400 sq. mm   | Metre | 53        |
| 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 | 11        |
| 7.6.2        | Above 35 sq. mm and upto 95 sq. mm   | Metre | 18        |
| 7.6.3        | Above 95 sq. mm and upto 185 sq. mm  | Metre | 25        |
| 7.6.4        | Above 185 sq. mm and upto 400 sq. mm   | Metre | 45        |
| 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 | 22        |
| 7.7.2        | Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm  |       |           |
|              | MS flat clamp)   | Metre | 67        |
| 7.7.3        | Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm  |       |           |
|              | MS flat clamp)   | Metre | 77        |
| 7.7.4        | Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm  |       |           |
|              | MS flat clamp)   | Metre | 107       |
| 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 | 19        |
| 7.8.2        | Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm  |       |           |
|              | MS flat clamp)   | Metre | 44        |
| 7.8.3        | Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm  |       |           |
|              | MS flat clamp)   | Metre | 54        |
| 7.8.4        | Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm  |       |           |
|              | MS flat clamp)   | Metre | 84        |
| 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 | aaab  | 202       |
| 7.10         | inscription duly engraved as required.  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          | each  | 283       |
|              | in ground as required.   | each  | 270       |

## **CHAPTER 8 - HT CABLE LAYING**

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 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 | 235       |
| 8.1.2        | Above 120 sq. mm and upto 400 sq. mm   | Metre | 256       |
| 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 | 161       |
| 8.2.2        | Above 120 sq. mm and upto 400 sq. mm   | Metre | 182       |
| 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 | 30        |
| 8.3.2        | Above 120 sq. mm and upto 400 sq. mm   | Metre | 53        |
| 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 | 25        |
| 8.4.2        | Above 120 sq. mm and upto 400 sq. mm   | Metre | 45        |
| 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 | 238       |
| 8.5.2        | Above 120 sq. mm and upto 400 sq. mm   | Metre | 258       |
| 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 | 163       |
| 8.6.2        | Above 120 sq. mm and upto 400 sq. mm   | Metre | 184       |
| 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 | 32        |

| Item<br>Code | Description   | Unit  | Rate<br>₹ |
|--------------|---|-------|-----------|
| 8.7.2<br>8.8 | Above 120 sq. mm and upto 400 sq. mm  Laying of one number XLPE power cable of 33 KV grade of following | Metre | 55        |
| 0.0          | size in the existing masonry open duct as required.   |       |           |
| 8.8.1        | Upto 120 sq. mm   | Metre | 27        |
| 8.8.2        | Above 120 sq. mm and upto 400 sq. mm  | Metre | 47        |



# **CHAPTER 9 - MV CABLE JOINTING & END TERMINATION**

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
| 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 | 125       |
| 9.1.2        | 2 X 10 sq. mm (19mm)  | Each | 126       |
| 9.1.3        | 2 X 16 sq. mm (22mm)  | Each | 134       |
| 9.1.4        | 2 X 25 sq. mm (22mm)  | Each | 136       |
| 9.1.5        | 2 X 35 sq. mm (25mm)  | Each | 178       |
| 9.1.6        | 2 X 50 sq. mm (28mm)  | Each | 226       |
| 9.1.7        | 3 X 10 sq. mm (22mm)  | Each | 136       |
| 9.1.8        | 3 X 16 sq. mm (25mm)  | Each | 162       |
| 9.1.9        | 3 X 25 sq. mm (25mm)  | Each | 164       |
| 9.1.10       | 3 X 35 sq. mm (28mm)  | Each | 225       |
| 9.1.11       | 3 X 50 sq. mm (32mm)  | Each | 241       |
| 9.1.12       | 3 X 70 sq. mm (35mm)  | Each | 294       |
| 9.1.13       | 3 X 95 sq. mm (38mm)  | Each | 354       |
| 9.1.14       | 3 X 120 sq. mm (45mm)   | Each | 407       |
| 9.1.15       | 3 X 150 sq. mm (50mm)   | Each | 489       |
| 9.1.16       | 3 X 185 sq. mm (57mm)   | Each | 659       |
| 9.1.17       | 3 X 225 sq. mm (62mm)   | Each | 788       |
| 9.1.18       | 3 X 240 sq. mm (62mm)   | Each | 808       |
| 9.1.19       | 3 X 300 sq. mm (70mm)   | Each | 918       |
| 9.1.20       | 3½ X 25 sq. mm (28mm)   | Each | 210       |
| 9.1.21       | 3½ X 35 sq. mm (32mm)   | Each | 245       |
| 9.1.22       | 3½ X 50 sq. mm (35mm)   | Each | 286       |
| 9.1.23       | 3½ X 70 sq. mm (38mm)   | Each | 324       |
| 9.1.24       | 3½ X 95 sq. mm (45mm)   | Each | 401       |
| 9.1.25       | 3½ X 120 sq. mm (45mm)  | Each | 417       |
| 9.1.26       | 3½ X 150 sq. mm (50mm)  | Each | 501       |
| 9.1.27       | 3½ X 185 sq. mm (57mm)  | Each | 671       |
| 9.1.28       | 3½ X 225 sq. mm (62mm)  | Each | 805       |
| 9.1.29       | 3½ X 240 sq. mm (62mm)  | Each | 824       |
| 9.1.30       | 3½ X 300 sq. mm (70mm)  | Each | 940       |
| 9.1.31       | 3½ X 400 sq. mm (82mm)  | Each | 1203      |

| Item<br>Code | Description  | Unit | Rate<br>₹ |
|--------------|--|------|-----------|
| 9.1.32       | 4 X 10 sq. mm (25mm)   | Each | 163       |
| 9.1.33       | 4 X 16 sq. mm (28mm)   | Each | 208       |
| 9.1.34       | 4 X 25 sq. mm (28mm)   | Each | 211       |
| 9.1.35       | 4 X 35 sq. mm (32mm)   | Each | 246       |
| 9.1.36       | 4 X 50 sq. mm (35mm)   | Each | 290       |
| 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 | 549       |
| 9.2.2        | 2 X 25 sq. mm  | Each | 592       |
| 9.2.3        | 2 X 35 sq. mm  | Each | 592       |
| 9.2.4        | 2 X 50 sq. mm  | Each | 592       |
| 9.2.5        | 3 X 16 sq. mm  | Each | 592       |
| 9.2.6        | 3 X 25 sq. mm  | Each | 592       |
| 9.2.7        | 3 X 35 sq. mm  | Each | 592       |
| 9.2.8        | 3 X 50 sq. mm  | Each | 633       |
| 9.2.9        | 3 X 70 sq. mm  | Each | 633       |
| 9.2.10       | 3 X 95 sq. mm  | Each | 747       |
| 9.2.11       | 3 X 120 sq. mm   | Each | 747       |
| 9.2.12       | 3 X 150 sq. mm   | Each | 747       |
| 9.2.13       | 3 X 185 sq. mm   | Each | 1011      |
| 9.2.14       | 3 X 225 sq. mm   | Each | 1011      |
| 9.2.15       | 3 X 240 sq. mm   | Each | 1179      |
| 9.2.16       | 3 X 300 sq. mm   | Each | 1179      |
| 9.2.17       | 3½ X 25 sq. mm   | Each | 592       |
| 9.2.18       | 3½ X 35 sq. mm   | Each | 633       |
| 9.2.19       | 3½ X 50 sq. mm   | Each | 633       |
| 9.2.20       | 3½ X 70 sq. mm   | Each | 695       |
| 9.2.21       | 3½ X 95 sq. mm   | Each | 756       |
| 9.2.22       | 3½ X 120 sq. mm  | Each | 756       |
| 9.2.23       | 3½ X 150 sq. mm  | Each | 1011      |
| 9.2.24       | 3½ X 185 sq. mm  | Each | 1011      |
| 9.2.25       | 3½ X 225 sq. mm  | Each | 1179      |
| 9.2.26       | 3½ X 240 sq. mm  | Each | 1179      |
| 9.2.27       | 3½ X 300 sq. mm  | Each | 1307      |
| 9.2.28       | 3½ X 400 sq. mm  | Each | 1499      |
| 9.2.29       | 4 X 16 sq. mm  | Each | 592       |
| 9.2.30       | 4 X 25 sq. mm  | Each | 592       |
| 9.2.31       | 4 X 35 sq. mm  | Each | 633       |
| 9.2.32       | 4 X 50 sq. mm  | Each | 633       |

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
| 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 | 1144      |
| 9.3.2        | 2 X 25 sq. mm   | Each | 1144      |
| 9.3.3        | 2 X 35 sq. mm   | Each | 1144      |
| 9.3.4        | 2 X 50 sq. mm   | Each | 1308      |
| 9.3.5        | 3 X 16 sq. mm   | Each | 1144      |
| 9.3.6        | 3 X 25 sq. mm   | Each | 1144      |
| 9.3.7        | 3 X 35 sq. mm   | Each | 1308      |
| 9.3.8        | 3 X 50 sq. mm   | Each | 1308      |
| 9.3.9        | 3 X 70 sq. mm   | Each | 1523      |
| 9.3.10       | 3 X 95 sq. mm   | Each | 1626      |
| 9.3.11       | 3 X 120 sq. mm  | Each | 1815      |
| 9.3.12       | 3 X 150 sq. mm  | Each | 1815      |
| 9.3.13       | 3 X 185 sq. mm  | Each | 2165      |
| 9.3.14       | 3 X 225 sq. mm  | Each | 2451      |
| 9.3.15       | 3 X 240 sq. mm  | Each | 2491      |
| 9.3.16       | 3 X 300 sq. mm  | Each | 3147      |
| 9.3.17       | 3½ X 25 sq. mm  | Each | 1308      |
| 9.3.18       | 3½ X 35 sq. mm  | Each | 1308      |
| 9.3.19       | 3½ X 50 sq. mm  | Each | 1523      |
| 9.3.20       | 3½ X 70 sq. mm  | Each | 1565      |
| 9.3.21       | 3½ X 95 sq. mm  | Each | 1815      |
| 9.3.22       | 3½ X 120 sq. mm   | Each | 2165      |
| 9.3.23       | 3½ X 150 sq. mm   | Each | 2165      |
| 9.3.24       | 3½ X 185 sq. mm   | Each | 2451      |
| 9.3.25       | 3½ X 225 sq. mm   | Each | 2491      |
| 9.3.26       | 3½ X 240 sq. mm   | Each | 3018      |
| 9.3.27       | 3½ X 300 sq. mm   | Each | 3697      |
| 9.3.28       | 3½ X 400 sq. mm   | Each | 4478      |
| 9.3.29       | 4 X 16 sq. mm   | Each | 1144      |
| 9.3.30       | 4 X 25 sq. mm   | Each | 1308      |
| 9.3.31       | 4 X 35 sq. mm   | Each | 1308      |
| 9.3.32       | 4 X 50 sq. mm   | Each | 1523      |
| 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 | 565       |

| Item<br>Code | Description     | Unit | Rate<br>₹ |
|--------------|-----------------|------|-----------|
| 9.4.2        | 2 X 25 sq. mm   | Each | 637       |
| 9.4.3        | 2 X 35 sq. mm   | Each | 637       |
| 9.4.4        | 2 X 50 sq. mm   | Each | 637       |
| 9.4.5        | 3 X 16 sq. mm   | Each | 804       |
| 9.4.6        | 3 X 25 sq. mm   | Each | 966       |
| 9.4.7        | 3 X 35 sq. mm   | Each | 966       |
| 9.4.8        | 3 X 50 sq. mm   | Each | 966       |
| 9.4.9        | 3 X 70 sq. mm   | Each | 1017      |
| 9.4.10       | 3 X 95 sq. mm   | Each | 1078      |
| 9.4.11       | 3 X 120 sq. mm  | Each | 1078      |
| 9.4.12       | 3 X 150 sq. mm  | Each | 1078      |
| 9.4.13       | 3 X 185 sq. mm  | Each | 1274      |
| 9.4.14       | 3 X 225 sq. mm  | Each | 1274      |
| 9.4.15       | 3 X 240 sq. mm  | Each | 1274      |
| 9.4.16       | 3 X 300 sq. mm  | Each | 1403      |
| 9.4.17       | 3½ X 25 sq. mm  | Each | 1145      |
| 9.4.18       | 3½ X 35 sq. mm  | Each | 1145      |
| 9.4.19       | 3½ X 50 sq. mm  | Each | 1598      |
| 9.4.20       | 3½ X 70 sq. mm  | Each | 1598      |
| 9.4.21       | 3½ X 95 sq. mm  | Each | 1658      |
| 9.4.22       | 3½ X 120 sq. mm | Each | 2128      |
| 9.4.23       | 3½ X 150 sq. mm | Each | 2128      |
| 9.4.24       | 3½ X 185 sq. mm | Each | 2128      |
| 9.4.25       | 3½ X 225 sq. mm | Each | 2725      |
| 9.4.26       | 3½ X 240 sq. mm | Each | 2725      |
| 9.4.27       | 3½ X 300 sq. mm | Each | 2854      |
| 9.4.28       | 3½ X 400 sq. mm | Each | 3716      |
| 9.4.29       | 4 X 16 sq. mm   | Each | 975       |
| 9.4.30       | 4 X 25 sq. mm   | Each | 1145      |
| 9.4.31       | 4 X 35 sq. mm   | Each | 1145      |
| 9.4.32       | 4 X 50 sq. mm   | Each | 1598      |
|              |                 |      |           |

# CHAPTER 10-HV CABLE JOINTING & END TERMINATION

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
|              | 11 KV CABLE JOINTING  |      |           |
| 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 | 2339      |
| 10.1.2       | 120 sq. mm  | Each | 2876      |
| 10.1.3       | 240 sq. mm  | Each | 3428      |
| 10.1.4       | 300 sq. mm  | Each | 3428      |
| 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 | 5338      |
| 10.2.2       | 120 sq. mm  | Each | 6663      |
| 10.2.3       | 240 sq. mm  | Each | 8156      |
| 10.2.4       | 300 sq. mm  | Each | 8156      |
| 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 | 3553      |
| 10.3.2       | 120 sq. mm  | Each | 3553      |
| 10.3.3       | 240 sq. mm  | Each | 5178      |
| 10.3.4       | 300 sq. mm  | Each | 6322      |
| 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 | 5455      |
| 10.4.2       | 120 sq. mm  | Each | 6551      |
| 10.4.3       | 240 sq. mm  | Each | 7007      |
| 10.4.4       | 300 sq. mm  | Each | 7007      |
| 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 | 7549      |

| tem<br>Code | Description   | Unit | Rate<br>₹ |
|-------------|---|------|-----------|
| 0.5.2       | 120 sq. mm  | Each | 8289      |
| 0.5.3       | 240 sq. mm  | Each | 9400      |
| 0.5.4       | 300 sq. mm  | Each | 9400      |
| 0.6         | 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: |      |           |
| 0.6.1       | 70 sq. mm   | Each | 12515     |
| 0.6.2       | 120 sq. mm  | Each | 15777     |
| 0.6.3       | 240 sq. mm  | Each | 17331     |
| 0.6.4       | 300 sq. mm  | Each | 17331     |
| 0.7         | 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:        |      |           |
| 0.7.1       | 70 sq. mm   | Each | 8946      |
| 0.7.2       | 120 sq. mm  | Each | 9621      |
| 0.7.3       | 240 sq. mm  | Each | 14352     |
| 8.0         | 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:       |      |           |
| 0.8.1       | 70 sq. mm   | Each | 11949     |
| 0.8.2       | 120 sq. mm  | Each | 14905     |
| 0.8.3       | 240 sq. mm  | Each | 19255     |
| 0.9         | 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: |      |           |
| 0.9.1       | 70 sq. mm   | Each | 30182     |
| 0.9.2       | 120 sq. mm  | Each | 38269     |
| 0.9.3       | 240 sq. mm  | Each | 53086     |



#### **CHAPTER 11 - POLE ERECTION**

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 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  | 2392      |
| 11.1.2       | Above 6.5 metre and upto 8.0 metre   | Each  | 2664      |
| 11.1.3       | Above 8.0 metre and upto 11.0 metre  | Each  | 3182      |
| 11.1.4       | Above 11.00 metre and upto 13.00 metre   | Each  | 3507      |
| 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  | 4047      |
| 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  | 2311      |
| 11.3.2       | Above 6.5 metre and upto 8.0 metre   | Each  | 2796      |
| 11.3.3       | Above 8.0 metre and upto 10.0 metre  | Each  | 3322      |
| 11.3.4       | Above 10.00 metre and upto 12.00 metre   | Each  | 3897      |
| 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  | 3936      |
| 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   | 4189      |
| 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 | 259       |
| 11.6.2       | 40 mm dia  | metre | 292       |
|              |  |       |           |



#### **CHAPTER 12 - MV OVER HEAD LINE WORK**

| Item<br>Code | Description  | Unit | Rate<br>₹ |
|--------------|--|------|-----------|
| 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 | 3440      |
| 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 | 3291      |
| 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 | 3440      |
| 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 | 3285      |
| 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 |      |           |
| 12.6         | fixed at one end of the brace as required.  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  | Each | 3763      |

| Item<br>Code | Description  | Unit         | Rate<br>₹    |
|--------------|--|--------------|--------------|
|              | 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         | 3608         |
| 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                                  |              |              |
| 12.8         | one end of the brace as required.  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 | Each         | 3763         |
| 12.9         | one end of the brace as required.  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  | Each<br>Each | 3608<br>2033 |
| 12.10        | etc. as required.  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   | Set          |              |
| 12.11        | paint as required.  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          | 455<br>776   |
| 12.12        | Erection of angle iron/ channel iron cross arm on wood/ RCC/ PCC/ steel tubular/ rail pole etc. as required.   | set          | 121          |
| 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          | 190          |
| 12.14        | Supplying and erection of galvanised 'D' iron clamps complete with shackle insulator (100 mm X 110 mm), G.I. bolts, nuts and   |              |              |
| 12.15        | washers, coach screws etc. as required.  Erection of galvanised 'D' iron clamps and insulator on pole as   | Set          | 216          |
| 12.10        | required.  | Set          | 31           |

| Item<br>Code | Description   | Unit        | Rate<br>₹   |
|--------------|---|-------------|-------------|
| 12.16        | Supplying and erection of 75 mm X 90 mm shackle insulator with G. I. Bolt, nuts and straps etc. as required .   | Set         | 135         |
| 12.17        | Supplying and erection of 100 mm X 110 mm shackle insulator with G. I. Bolt, nuts and straps etc. as required .   | Set         | 161         |
| 12.18        | Supplying and erection of 100 mm $\times$ 65 mm pin insulator complete with G. I. Spindle and nuts etc. as required .   | Set         | 72          |
| 12.19        | Supplying and erection of 100 mm $\times$ 80 mm pin insulator complete with G. I. Spindle and nuts etc. as required .   | Set         | 74          |
| 12.20        | Erection of LV/MV shackle/pin insulator etc. as required.   | Set         | 33          |
| 12.21        | Erection of ACSR conductor of 7/2.11 mm to 7/3.00 mm diameter including binding etc. as required.   | Kg          | 80          |
| 12.22        | Erection of ACSR conductor of 7/3.35 mm to 7/4.00 diameter and above including binding etc. as required.  | Kg          | 105         |
| 12.23        | Erection of all aluminium conductor of 7/1.96 mm to 7/3.10 mm diameter including binding etc. as required.  | Kg          | 105         |
| 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          | 81          |
| 12.25        | Erection of G.I. Wire No. 8 SWG including binding etc. as required.   | Kg          | 16          |
| 12.26        | Erection of hexagonal type guard as required.   | Each        | 87          |
| 12.27        | Erection of ring type guard as required.  | Each        | 29          |
| 12.28        | Erection of cradle guard as required.   | Each        | 58          |
| 12.29        | Supplying and erection of 15 A aerial fuse complete as required.  | Each        | 62          |
| 12.30        | Supplying and erection of 30 A aerial fuse complete as required.  | Each        | 73          |
| 12.31        | Erection of aerial fuse as required.  | Each        | 44          |
| 12.32        | Supplying and fixing MV horn gap lightning arrestor as required.  | Each        | 170         |
| 12.33        | Fixing of MV lightning arrestor as required.  | Each        | 66          |
| 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   | <b>Fach</b> | 740         |
| 12.35        | etc. as required.  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        | 749<br>1807 |
| 12.36        | Providing and fixing 50 mm dia X 5.6 metres G.I. pipe (including accessories) complete with 50 mm X 50 mm X 6 mm angle iron cross arm and 40 mm X 3mm M.S. flat iron clamps bends for guard wire, 75 mm X 90 mm shackle insulator and straps, 7/3.15 mm G.I. wire stay set for house service connection including painting the angle and flat iron with primer and finish paint etc. as required. | Each        | 2713        |

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
| 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 | 1276      |
| 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 | 1821      |
| 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 | 2448      |
| 12.40        | Dismantling of over head lines comprising of copper/ aluminium over head conductor, G.I. wire, cross arms, insulators etc. as required.                 | Kg   | 35        |
| 12.41        | Dismantling of pole/ street light standard/ strut embedded in brick ballast foundation etc. as required.  | Each | 787       |
| 12.42        | Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required.  | Each | 1046      |



#### **CHAPTER 13 - HV OVER HEAD LINE WORK**

| Item<br>Code | Description  | Unit | Rate<br>₹ |
|--------------|--|------|-----------|
|              | 11 KV OVER HEAD LINE   |      |           |
| 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  | 3502      |
| 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 | 318       |
| 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 | 345       |
| 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 | 1467      |
| 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 | 1174      |
| 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  | 220       |
| 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)  | Sat  | 2400      |
|              | and painting with primer and finish paint as required.   | Set  | 3108      |

| Item<br>Code | Description  | Unit       | Rate<br>₹  |
|--------------|--|------------|------------|
| 13.8         | Supplying and erection of a set of cross bracing FRLSame 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                     | Oct        | 4004       |
| 13.9         | required.  Erection of double pole 3 wire cross arm for 11KV/ 22KV/ 33 KV  | Set        | 4331       |
|              | over head lines as required.   | Each       | 504        |
| 13.10        | Supplying and erection of 11 KV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.   | Set        | 385        |
| 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   | 0-4        | 4400       |
| 13.12        | etc. as required.  Erection of disc/ pin insulator for 11 KV over head lines as required.  | Set<br>Set | 1193<br>66 |
| 13.13        | Supplying and erection of three piece nonlinear resistor type lightning arrestor suitable for 3 wire, 11 KV overhead lines with rated voltage 9 KV (rms) with a nominal discharge current rating of 5 KA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.  | Set        | 6069       |
|              | 33 KV OVER HEAD LINE   |            |            |
| 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        | 3531       |
| 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       | 338        |
| 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       | 1855       |
| 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       | 1353       |

| Description  | Unit   | Rate<br>₹  |
|--|--|--|
| 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   | 417  |
| 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  | Fach   | 2301   |
| 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   | 1696   |
| 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  | 4211   |
| Supplying and erection of a set of cross bracing frame work for 33 KV over head line double pole structure having four members fabricated out of 65 mm X 65 mm X 6 mm angle iron to form a rectangle of minimum size 2400 mm width X 2800 mm height complete with 50 mm X 6mm M.S. flat iron clamps, bolts and nuts including drilling holes for insulator pins, bolts, nuts, washers etc and painting with primer and finish paint as required.   | Set  | 6470   |
| Supplying and erection of 33 KV pin insulator complete with large steel head G.I. pin, nuts, washers etc. as required.   | Set  | 1107   |
| 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  | 3495   |
| Supplying and erection of single piece nonlinear resistor type lightning arrestor suitable for 3 wire, 33 KV overhead lines with rated voltage 30 KV (rms) with a nominal discharge current rating of 10 KA (station class) and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.   | Set  | 43783  |
|  | 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. 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 6 mm 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.  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 6 mm 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.  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.  Supplying and erection of a set of cross bracing frame work for 33 KV over head line double pole structure having four members fabricated out of 65 mm X 65 mm X 6 mm angle iron to form a rectangle of minimum size 2400 mm width X 2800 mm height complete with 50 mm X 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 6 mm A 6 mm angle iron to form a rectangle of minimum size 2400 mm width X 2800 mm height complete with palvanised strain clamps, bolts, nuts, washers etc. as required.  Supplying and ere | 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.  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 6 mm 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.  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 6 mm 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.  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  Supplying and erection of a set of cross bracing frame work for 33 KV over head line double pole structure having four members fabricated out of 65 mm X 65 mm X 6 mm angle iron to form a rectangle of minimum size 2400 mm width X 2800 mm height complete with 50 mm X 6 mm 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  Supplying and erection of a set of three 11 KV disc insulator for 33 KV over head lines with galvanised strain clamps, b |



#### **CHAPTER 14 - MISC.CIVIL ITEMS**

| Item<br>Code | Description  | Unit | Rate<br>₹    |
|--------------|--|------|--------------|
| 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  | 155          |
| 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  | 157          |
| 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  | 100          |
| 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  | 257          |
| 14.5         | Deduct for not consolidation by ramming and watering while refilling with sand and or good soil in cable/ pipe laying.   | cum  | 57           |
| 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  | 477          |
| 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   |      | 4000         |
| 14.8         | required.  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  | cum  | 4683         |
| 14.9         | required.  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  | 4185<br>4047 |
| 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  | 4909         |

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 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   | 3727      |
| 14.12        | Providing 15mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels.   | sqm   | 162       |
| 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 | 388       |
| 14.13.2      | 80 mm dia  | metre | 615       |
| 14.13.3      | 100 mm dia   | metre | 846       |
| 14.13.4      | 150 mm dia   | metre | 1317      |
| 14.14        | Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required. |       |           |
| 14.14.1      | 100 mm dia   | metre | 313       |
| 14.14.2      | 150 mm dia   | metre | 357       |
| 14.14.3      | 250 mm dia   | metre | 424       |
| 14.14.4      | 300 mm dia   | metre | 529       |



## **CHAPTER 15 - LIGHTING CONTROLS**

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
| 15.1         | Supplying,installation, testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor having high preformance, non regulating programmable type, suitable for connected load upto 10Amp, for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.  | Each | 3157      |
| 15.2         | Supplying,installation,testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor with day light dimming(lighting level shall be regulated as per availability of natural day light in an area along with occupancy detection.) having high preformance, regulating programmable type, suitable for connected load upto 10Amp, for mounting height up to 2.8 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required. | Each | 4431      |
| 15.3         | Supplying,installation,testing and commissioning of Microwave technology based occupancy sensor having high preformance, non regulating programmable type, suitable for connected load upto 10Amp, for mounting height up to 2.6 mtr and for 5m X 20m coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.   | Each | 6064      |
| 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 | 2530      |
| 15.4.2       | 2 output per phase and suitable for single phase supply   | Each | 5293      |
| 15.4.3       | 3 output(1output per phase) and suitable for three phase supply   | Each | 6218      |

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

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
|              | 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. |      |           |
|              | <b>Note:</b> 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.(65 mm thick insulation)  | mtr  | 9310.00   |
| 16.1.2       | 350 mm dia.(65 mm thick insulation)   | mtr  | 6429.00   |
| 16.1.3       | 300 mm dia.(65 mm thick insulation)   | mtr  | 5811.00   |
| 16.1.4       | 250mm dia.(50 mm thick insulation)  | mtr  | 4596.00   |
| 16.1.5       | 200mm dia.(50 mm thick insulation)  | mtr  | 3837.00   |
| 16.1.6       | 150mm dia. (50mm thick insulation)  | mtr  | 2793.00   |
| 16.1.7       | 125mm dia.(40mm thick insulation)   | mtr  | 2272.00   |
| 16.1.8       | 100mm dia. (40mm thick insulation)  | mtr  | 1976.00   |
| 16.1.9       | 80mm dia. (25mm thick insulation  | mtr  | 1377.00   |
| 16.1.10      | 65mm dia.(25mm thick insulation)  | mtr  | 1187.00   |
| 16.1.11      | 50mm dia.(25mm thick insulation)  | mtr  | 964.00    |
| 16.1.12      | 40mm dia. (25mm thick insulation)   | mtr  | 817.00    |
| 16.1.13      | 32 mm dia(25mm thick insulation)  | mtr  | 704.00    |
| 16.1.14      | 25 mm dia( 25mm thick insulation)   | mtr  | 628.00    |

| Item<br>Code | Description   | Unit  | Rate<br>₹ |
|--------------|---|-------|-----------|
|              | 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 necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with following thick cross link closed cell preformed sections of polyethylene insulation applied by adhesive confirming 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. |       |           |
|              | <b>Note:</b> 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 | 8797.00   |
| 16.2.2       | 350mm dia.(32 mm thick insulation)  | metre | 5967.00   |
| 16.2.3       | 300mm dia. (32 mm thick insulation)   | metre | 5403.00   |
| 16.2.4       | 250mm dia.(32 mm thick insulation)  | metre | 4658.00   |
| 16.2.5       | 200mm dia.(32 mm thick insulation)  | metre | 3729.00   |
| 16.2.6       | 150mm dia. (32 mm thick insulation)   | metre | 2662.00   |
| 16.2.7       | 125mm dia.(32 mm thick insulation)  | metre | 2444.00   |
| 16.2.8       | 100mm dia. (32 mm thick insulation)   | metre | 1905.00   |
| 16.2.9       | 80mm dia.(32 mm thick insulation)   | metre | 1479.00   |
| 16.2.10      | 65mm dia(32 mm thick insulation)  | metre | 1270.00   |
| 16.2.11      | 50mm dia(32 mm thick insulation)  | metre | 1023.00   |
| 16.2.12      | 40mm dia. (32 mm thick insulation)  | metre | 860.00    |
| 16.2.13      | 32 mm dia(19 mm thick insulation)   | metre | 647.00    |
| 16.2.14      | 25 mm dia(19 mm thick insulation)   | metre | 569.00    |
|              | INSULATED CHILLED WATER PIPING (expanded polystrene 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 polystrene moulded pipe section of density 20 kg/cu.m after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500g polythene faced hessain and finally applying   |       |           |

| Item<br>Code | Description   | Unit    | Rate<br>₹ |
|--------------|---|---------|-----------|
|              | 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.  |         |           |
|              | <b>Note:</b> 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   | 8704.00   |
| 16.3.2       | 350 mm dia.(75 mm insulation)   | metre   | 5912.00   |
| 16.3.3       | 300 mm dia.(75 mm insulation)   | metre   | 5393.00   |
| 16.3.4       | 250mm dia.(75 mm insulation)  | metre   | 4509.00   |
| 16.3.5       | 200mm dia.(75 mm insulation)  | metre   | 3779.00   |
| 16.3.6       | 150mm dia. (75mm insulation)  | metre   | 2757.00   |
| 16.3.7       | 125mm dia.(50mm insulation)   | metre   | 2185.00   |
| 16.3.8       | 100mm dia. (50mm insulation)  | metre   | 1859.00   |
| 16.3.9       | 80mm dia. (50mm insulation  | metre   | 1428.00   |
| 16.3.10      | 65mm dia.(50mm insulation)  | metre   | 1237.00   |
| 16.3.11      | 50mm dia.(50mm insulation)  | metre   | 1012.00   |
| 16.3.12      | 40mm dia. (50mm insulation)   | metre   | 863.00    |
| 16.3.13      | 32 mm dia(50mm insulation)  | metre   | 750.00    |
| 16.3.14      | 25 mm dia( 50mm insulation)   | metre   | 650.00    |
|              | INSULATION ON EXISTING PIPE   |         |           |
| 16.4         | Supplying, laying/ fixing, testing and commissioning 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 | 1869.00   |
| 16.4.2       | 50mm  | per sqm | 1537.00   |
| 16.4.3       | 40mm  | per sqm | 1328.00   |
| 16.4.4       | 25mm  | per sqm | 1033.00   |
| 16.5         | Supplying, laying/ fixing, testing and commissioning of following thickness cross link closed cell preformed sections of polyethylene insulation Nitrile rubber applied by adhesive confirming to standard specifications and finally applying 0.63mm aluminium sheet cladding complete with type3,   |         |           |

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
|              | 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  | sqm  | 1504.00   |
| 16.5.2       | 19mm  | sqm  | 1073.00   |
| 16.6         | Supplying, laying/ fixing, testing and commissioning of following thickness insulation with fire retardant quality expanded polystrene moulded pipe section of density 20 kg/cu.m after a thick coat of cold setting adhesive (CPRX compound) wrapping with 500g polythene faced hessain and finally applying 0.63mm aluminium sheet cladding complete with type3, grade 1 roofing feltstrip(as per IS:1322 as amended up to date) at joints repairing etc. as per specifications and as required complete in all respect |      |           |
| 16.6.1       | 75mm  | sqm  | 1426.00   |
| 16.6.2       | 50mm  | sqm  | 1113.00   |
|              | INSULATED VALVES  |      |           |
| 16.7         | Supplying, fixing, testing and commissioning of following valves, strainers, gauges in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications.   |      |           |
| 16.7.1       | BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot water circulation as specified  |      |           |
| 16.7.1.1     | 200 mm dia  | Each | 10871.00  |
| 16.7.1.2     | 150mm dia.  | Each | 5977.00   |
| 16.7.1.3     | 125mm dia.  | Each | 5447.00   |
| 16.7.1.4     | 100mm dia.  | Each | 4563.00   |
| 16.7.1.5     | 80mm dia.   | Each | 3514.00   |
| 16.7.1.6     | 65mm dia.   | Each | 3151.00   |
| 16.7.1.7     | 50mm dia.   | Each | 2753.00   |
| 16.7.1.8     | 40mm dia.   | Each | 2581.00   |
| 16.7.2       | BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.  |      |           |
| 16.7.2.1     | 200 mm dia  | Each | 49271.00  |
| 16.7.2.2     | 150mm dia.  | Each | 26942.00  |
| 16.7.2.3     | 125mm dia.  | Each | 18608.00  |
| 16.7.2.4     | 100mm dia.  | Each | 13626.00  |
| 16.7.2.5     | 80mm dia.   | Each | 7497.00   |
| 16.7.2.6     | 65 mm dia   | Each | 6209.00   |

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
| 16.7.2.7     | 50mm dia.   | Each | 4865.00   |
| 16.7.2.8     | 40 mm dia   | Each | 3072.00   |
| 16.7.3       | NON - RETURN VALVE with duel plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as specified.   |      |           |
| 16.7.3.1     | 200 mm dia  | Each | 8470.00   |
| 16.7.3.2     | 150mm dia.  | Each | 7217.00   |
| 16.7.3.3     | 125mm dia.  | Each | 5583.00   |
| 16.7.3.4     | 100 mm dia  | Each | 4458.00   |
| 16.7.3.5     | 80mm dia.   | Each | 3086.00   |
| 16.7.3.6     | 65 mm dia   | Each | 2555.00   |
| 16.7.4       | Y - STRAINER of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified.   |      |           |
| 16.7.4.1     | 200mm dia   | Each | 18225.00  |
| 16.7.4.2     | 150mm dia.  | Each | 14884.00  |
| 16.7.4.3     | 125mm dia.  | Each | 9880.00   |
| 16.7.4.4     | 100 mm dia  | Each | 8075.00   |
| 16.7.4.5     | 80 mm dia   | Each | 6117.00   |
| 16.7.4.6     | 65mm dia.   | Each | 5096.00   |
| 16.7.4.7     | 50mm dia.   | Each | 4373.00   |
| 16.7.4.8     | 40mm dia.   | Each | 3872.00   |
| 16.8         | Providing and fixing in position the industrial type pressure gauge complete as required  | Each | 947.00    |
| 16.9         | Providing & fixing in position the mercury in glass industrial type thermometer complete as required  | Each | 673.00    |
| 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. |      |           |

| Item Description<br>Code  | Unit         | Rate<br>₹          |
|---|--------------|--------------------|
| 16.10.1.1 300 mm dia.   | metre        | 3876.00            |
| 16.10.1.2 250 mm dia  | metre        | 3234.00            |
| 16.10.1.3 200 mm dia.   | metre        | 2667.00            |
| 16.10.1.4 150 mm dia.   | metre        | 1813.00            |
| 16.10.1.5 125 mm dia.   | metre        | 1560.00            |
| 16.10.1.6 100 mm dia.   | metre        | 1305.00            |
| VALVES WITHOUT INSULATION   |              |                    |
| 16.11 Supplying, fixing, testing and commissioning of following size 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.  | Fach         | 10110.00           |
| 16.11.1.1 200 mm dia.   | Each         | 10148.00           |
| 16.11.1.2 150 mm dia.   | Each         | 5303.00            |
| 16.11.1.3 125 mm dia.   | Each         | 4864.00            |
| 16.11.1.4 100 mm dia.   | Each         | 4007.00            |
| 16.11.1.5 80 mm dia.  | Each         | 3159.00            |
| 16.11.1.6 65 mm dia.<br>16.11.1.7 50 mm dia.  | Each         | 2824.00            |
| 16.11.1.8 40 mm dia.  | Each<br>Each | 2435.00<br>2307.00 |
| <ul> <li>16.11.2 NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end &amp; PN 16 pressure rating as specified.</li> <li>16.11.2.1 200 mm dia.</li> </ul>   | ;            | 7748.00            |
| 16.11.2.2 150 mm dia.   | Each         | 6557.00            |
| 16.11.2.3 125 mm dia.   | Each         | 5000.00            |
| 16.11.2.4 100 mm dia.   | Each         | 3902.00            |
| 16.11.2.5 80 mm dia.  | Each         | 2730.00            |
| 16.11.2.6 65 mm dia.  | Each         | 2229.00            |
| DUCTING, GRILLS, DIFFUSER AND INSULATION  |              |                    |
| 16.12.1 Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required. |              |                    |
| 16.12.1.1 Thickness 0.63 mm sheet   | Sqm          | 637.00             |
| 16.12.1.2 Thickness 0.80 mm sheet   | Sqm          | 750.00             |
| 16.12.1.3 Thickness 1.00 mm sheet   | Sqm          | 933.00             |
| 16.12.1.4 Thickness 1.25 mm sheet   | Sqm          | 1069.00            |

| Item<br>Code | Description  | Unit  | Rate<br>₹ |
|--------------|--|-------|-----------|
| 16.12.2      | Supply, installation, balancing and commissioning of site 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.   |       |           |
| 16.12.2.1    | Thickness 0.63 mm sheet  | Sqm   | 584.00    |
| 16.12.2.2    | Thickness 0.80 mm sheet  | Sqm   | 662.00    |
| 16.12.2.3    | Thickness 1.00 mm sheet  | Sqm   | 883.00    |
| 16.12.2.4    | Thickness 1.25 mm sheet  | Sqm   | 1024.00   |
| 16.13        | Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.  | Sqm   | 4673.00   |
| 16.14        | Supply, installation, testing and commissioning of Motorized (ON-OFF Type) duct mounted GI volume control damper with enthalpy sensor and necessary control wire (minimum 1.5 sqmm) for integration within AHU room  | Oqm   | 4070.00   |
| 16.14.1      | Damper   | Sqm   | 5355.00   |
| 16.14.2      | Actuator   | Each  | 5230.00   |
| 16.15        | Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications.  | Sqm   | 6326.00   |
| 16.16        | Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.   | Sqm   | 3742.00   |
| 16.17        | Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring &   | Oq    | 0. 12.00  |
|              | removable core.  | Sqm   | 8440.00   |
| 16.18        | Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.  | Sqm   | 5621.00   |
| 16.19        | Supply, installation, testing & commissioning of thermal insulated flexible duct of following sizes duly supported at regular interval as per site requirement etc. complete as required as per specifications.  |       |           |
| 16.19.1      | 200 mm dia.  | Metre | 372.00    |
| 16.20        | Supplying, Fixing,testing and commissioning of fire dampers in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring,the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return |       |           |

| ltem<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
|              | action shall be inbuilt mechanism and not externally mounted.  The damper shall also be closed in the event of fire signal complete as required and as per specifications.  |      |           |
| 16.20.1      | Fire damper   | Sqm  | 6864.00   |
| 16.20.2      | Actuator  | Each | 6517.00   |
| 16.21        | Supply and fixing of acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 kg/m³, with 25 mm X 25 mm Gl 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. | Sqm  | 503.00    |
| 16.22        | Supplying, fixing acoustic lining on wall and ceiling of AHU rooms with 50mm thick, density 32 kg/cu.m resin bonded glass fiber insulation friction fixed in 610mm x 610 mm frame work made of 25X50X50X50X25 mm made out of 0.6mm thick GI sheet U shaped channel and covered with reinforced fiber glass tissue and finished with 0.80 mm perforated aluminium sheet etc. complete as required and as per   | ·    |           |
|              | specifications.   | Sqm  | 732.00    |
| 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 (CPRX 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  | Sqm  | 742.00    |
| 16.23.2      | 25mm  | Sqm  | 972.00    |
| 16.24        | Supplying and fixing 50 mm thick aluminium foil faced resin bonded fibre glass insulation (on duct ) of density 24 kg/cu.m 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  | 0    | F44.22    |
|              | specifications and as required. (for indoor applications).  | Sqm  | 514.00    |
| 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)  | Sqm  | 458.00    |

| Item<br>Code | Description  | Unit | Rate<br>₹ |
|--------------|--|------|-----------|
|              | 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      | 2500 CFM   | Set  | 64051.00  |
| 16.26.2      | 3000 CFM   | Set  | 73561.00  |
| 16.26.3      | 4000 CFM   | Set  | 90519.00  |
| 16.26.4      | 5000 CFM   | Set  | 109540.00 |
| 16.26.5      | 6000 CFM   | Set  | 125581.00 |
| 16.26.6      | 7000 CFM   | Set  | 137039.00 |
| 16.26.7      | 8000 CFM   | Set  | 147123.00 |
| 16.26.8      | 9000 CFM   | Set  | 182643.00 |
| 16.26.9      | 10000 CFM  | Set  | 190549.00 |
| 16.26.10     | 11000 CFM  | Set  | 203955.00 |
| 16.26.11     | 12000 CFM  | Set  | 255173.00 |
| 16.27        | Supply, Installation, Testing and commissioning of factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators, cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 4 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air  |      |           |

| Item<br>Code | Description   | Unit | Rate<br>₹ |
|--------------|---|------|-----------|
|              | prefilters, belt drive package with TEFC drive motor suitable for $415 \pm 10\%$ volts, $50$ Hz, $3$ 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. |      |           |
| 16.27.1      | 2500 CFM  | Set  | 61020.00  |
| 16.27.2      | 3000 CFM  | Set  | 64277.00  |
| 16.27.3      | 4000 CFM  | Set  | 76029.00  |
| 16.27.4      | 5000 CFM  | Set  | 92626.00  |
| 16.27.5      | 6000 CFM  | Set  | 95304.00  |
| 16.27.6      | 7000 CFM  | Set  | 124242.00 |
| 16.27.7      | 8000 CFM  | Set  | 130735.00 |
| 16.27.8      | 9000 CFM  | Set  | 158092.00 |
| 16.27.9      | 10000 CFM   | Set  | 174775.00 |
| 16.27.10     | 11000 CFM   | Set  | 188677.00 |
| 16.27.11     | 12000 CFM   | Set  | 203573.00 |

#### **APPENDIX-I**

#### **BASIC RATE OF LABOUR & HIRE CHARGES**

| Code<br>No. | Description                                     | Unit | Rate<br>₹ |
|-------------|---|------|-----------|
| 1001        | Wireman   | day  | 361.00    |
| 1002        | Cable jointer                                   | day  | 361.00    |
| 1003        | Lineman   | day  | 361.00    |
| 1004        | Fitter, Grade 1                                 | day  | 361.00    |
| 1005        | Fitter, Grade 2                                 | day  | 328.00    |
| 1006        | Painter   | day  | 328.00    |
| 1007        | Khallasi  | day  | 297.00    |
| 1008        | Carpenter, Grade 1                              | day  | 361.00    |
| 1009        | Blacksmith, Grade 2                             | day  | 328.00    |
| 1010        | Mason, Grade 2                                  | day  | 328.00    |
| 1011        | Stone Chiseler                                  | day  | 328.00    |
| 1012        | Beldar/ coolie                                  | day  | 297.00    |
| 1013        | Bhisti  | day  | 297.00    |
| 1014        | Excavator                                       | day  | 297.00    |
| 1015        | Stone Breaker                                   | day  | 328.00    |
| 1016        | Mate  | day  | 297.00    |
| 1081        | Hire charges for 5 ton truck                    | day  | 2100.00   |
| 1082        | Hire charges for compressor and spray gun       | day  | 300.00    |
| 1083        | Drilling of 46 Nos 12 mm dia holes on G.I. pipe | L.S. | 270.00    |
| 1084        | Drilling holes                                  | each | 5.50      |
| 1085        | Solder jointing                                 | each | 11.00     |
| 1086        | Welding charges                                 | mm   | 0.45      |

#### **APPENDIX-II**

## **BASIC RATE OF MATERIAL**

| Code<br>No. | Description  | Unit  | Rate<br>₹ |
|-------------|--|-------|-----------|
| 1101        | 1.5 sq. mm ISI marked, FRLS PVC insulated,                     |       |           |
|             | single core copper conductor cable                             | metre | 10.95     |
| 1102        | 2.5 sq. mm ISI marked, FRLS PVC insulated,                     |       |           |
|             | single core copper conductor cable                             | metre | 17.63     |
| 1103        | 4.0 sq. mm ISI marked, FRLS PVC insulated,                     |       |           |
|             | single core copper conductor cable                             | metre | 25.88     |
| 1104        | 6.0 sq. mm ISI marked, FRLS PVC insulated,                     |       |           |
|             | single core copper conductor cable                             | metre | 35.84     |
| 1105        | 10 sq. mm ISI marked, FRLS PVC insulated,                      |       |           |
|             | single core copper conductor cable                             | metre | 62.93     |
| 1106        | 16 sq. mm ISI marked, FRLS PVC insulated,                      |       |           |
|             | single core copper conductor cable                             | metre | 90.72     |
| 1108        | 16/0.20 mm (0.5 sqmm) twin core                                |       |           |
|             | FRLS PVC sheathed, flat flexible copper cable                  | metre | 11.47     |
| 1109        | 16/0.20 mm (0.5 sqmm) twin circular, FRLS PVC sheathed,        |       |           |
|             | workshop flexible copper cable                                 | metre | 11.47     |
| 1110        | 32/0.20 mm (1.0 sqmm) twin circular, FRLS PVC sheathed,        |       |           |
|             | workshop flexible copper cable                                 | metre | 18.14     |
| 1111        | 1 pair, 0.5 mm dia annealed copper conductor,                  |       |           |
|             | FRLS PVC insulated, unarmoured, telephone cable                | metre | 3.78      |
| 1112        | 2 pair, 0.5 mm dia annealed copper conductor,                  |       |           |
|             | FRLS PVC insulated, unarmoured, telephone cable                | metre | 7.56      |
| 1113        | 4 pair, 0.5 mm dia annealed copper conductor,                  |       |           |
|             | FRLS PVC insulated, unarmoured, telephone cable                | metre | 14.43     |
| 1114        | Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor    |       |           |
|             | PE insulated, shielded with fine tinned copper braid protected |       |           |
|             | with PVC sheath  | metre | 12.73     |
|             | CONDUIT (STEEL & PVC ) AND ACCESSORIES                         | 6     |           |
| 1201        | 20 mm dia. ISI marked, steel conduit                           | metre | 59.93     |
| 1202        | 25 mm dia. ISI marked, steel conduit                           | metre | 75.51     |
| 1203        | 32 mm dia. ISI marked, steel conduit                           | metre | 113.26    |
| 1204        | 40 mm dia. ISI marked, steel conduit                           | metre | 184.05    |
| 1205        | 50 mm dia. ISI marked, steel conduit                           | metre | 259.55    |
| 1206        | 20 mm inspection/ solid bends                                  | each  | 8.19      |

| Code<br>No. | Description                         | Unit  | Rate<br>₹ |
|-------------|-------------------------------------|-------|-----------|
| 1207        | 25 mm inspection/ solid bends       | each  | 14.33     |
| 1208        | 32 mm inspection/ solid bends       | each  | 28.66     |
| 1209        | 40 mm inspection/ solid bends       | each  | 49.14     |
| 1210        | 50 mm inspection/ solid bends       | each  | 98.05     |
| 1211        | 20 mm sockets                       | each  | 3.75      |
| 1212        | 25 mm sockets                       | each  | 4.77      |
| 1213        | 32 mm sockets                       | each  | 8.53      |
| 1214        | 40 mm sockets                       | each  | 20.47     |
| 1215        | 50 mm sockets                       | each  | 30.71     |
| 1216        | 20 mm junction box, one way         | each  | 33.84     |
| 1217        | 20 mm junction box, two way         | each  | 33.84     |
| 1218        | 20 mm iron staples/ saddles/ screws | each  | 1.50      |
| 1219        | 25 mm iron staples/ saddles/ screws | each  | 2.09      |
| 1220        | 32 mm iron staples/ saddles/ screws | each  | 3.18      |
| 1221        | 40 mm iron staples/ saddles/ screws | each  | 4.10      |
| 1222        | 50 mm iron staples/ saddles/ screws | each  | 5.44      |
| 1224        | 20 mm dia. ISI marked, PVC conduit  | metre | 14.66     |
| 1225        | 25 mm dia. ISI marked, PVC conduit  | metre | 19.78     |
| 1226        | 32 mm dia. ISI marked, PVC conduit  | metre | 31.98     |
| 1227        | 40 mm dia. ISI marked, PVC conduit  | metre | 48.95     |
| 1228        | 50 mm dia. ISI marked, PVC conduit  | metre | 72.83     |
| 1229        | 20 mm PVC bends                     | each  | 5.12      |
| 1230        | 25 mm PVC bends                     | each  | 6.97      |
| 1231        | 32 mm PVC bends                     | each  | 11.95     |
| 1232        | 40 mm PVC bends                     | each  | 10.15     |
| 1233        | 50 mm PVC bends                     | each  | 30.91     |
| 1234        | 20 mm PVC couplers                  | each  | 3.15      |
| 1235        | 25 mm PVC couplers                  | each  | 4.77      |
| 1236        | 32 mm PVC couplers                  | each  | 7.75      |
| 1237        | 40 mm PVC couplers                  | each  | 9.49      |
| 1238        | 50 mm PVC couplers                  | each  | 11.84     |
| 1239        | 20 mm PVC junction box, one way     | each  | 14.07     |
| 1240        | 20 mm PVC junction box, two way     | each  | 14.07     |
| 1241        | 75 mm X 75 mm X 50 mm PVC box       | each  | 18.00     |
|             | METAL BOXES                         |       |           |
| 1300        | Modular GI box for 2 module         | each  | 31.89     |
| 1301        | Modular GI box for 3 module         | each  | 35.50     |
| 1302        | Modular GI box for 4 module         | each  | 49.61     |
| 1303        | Modular GI box for 6 module         | each  | 71.50     |

| Code<br>No. | Description  | Unit | Rate<br>₹ |
|-------------|--|------|-----------|
| 1304        | Modular GI box for 8 module                          | each | 74.42     |
| 1305        | Modular GI box for 12 module                         | each | 113.91    |
| 1306        | 75 mm X 75 mm X 60 mm deep metal box                 | each | 19.25     |
| 1307        | 100 mm X 100 mm X 60 mm deep metal box               | each | 29.25     |
| 1308        | 150 mm X 75 mm X 60 mm deep metal box                | each | 31.00     |
| 1309        | 150 mm X 150 mm X 60 mm deep metal box               | each | 44.46     |
| 1310        | 180 mm X 100 mm X 60 mm deep metal box               | each | 37.44     |
| 1311        | 200 mm X 125 mm X 60 mm deep metal box               | each | 46.80     |
| 1312        | 200 mm X 150 mm X 60 mm deep metal box               | each | 58.50     |
| 1313        | 200 mm X 250 mm X 60 mm deep metal box               | each | 76.05     |
| 1314        | 200 mm X 300 mm X 60 mm deep metal box               | each | 105.30    |
| 1315        | 250 mm X 300 mm X 60 mm deep metal box               | each | 117.00    |
| 1316        | 200 mm X 150 mm X 75 mm deep metal box               | each | 64.35     |
| 1317        | 200 mm X 250 mm X 75 mm deep metal box               | each | 87.75     |
| 1318        | 200 mm X 150 mm X 100 mm deep metal box              | each | 77.22     |
| 1319        | 200 mm X 250 mm X 100 mm deep metal box              | each | 99.45     |
| 1320        | 200 mm X 300 mm X 100 mm deep metal box              | each | 117.00    |
| 1321        | 250 mm X 300 mm X 100 mm deep metal box              | each | 146.25    |
|             | WIRING SWITCHES AND ACCESSORIES                      |      |           |
| 1322        | 3 mm thick phenolic laminated sheet                  | sqcm | 0.09      |
| 1401        | Ceiling rose, 3 pin, 5 amps ISI marked               | each | 16.03     |
| 1402        | S.P. 5/6 amps, one way modular switch, ISI marked    | each | 46.50     |
| 1403        | S.P. 5/6 amps, two way modular switch, ISI marked    | each | 65.70     |
| 1404        | S.P. 15/16 amps, one way modular switch, ISI marked  | each | 78.30     |
| 1405        | 3 pin 5/6 amps modular socket outlet, ISI marked     | each | 73.50     |
| 1406        | 6 pin 15/16 amps modular socket outlet, ISI marked   | each | 120.60    |
| 1407        | Modular bell push, ISI marked                        | each | 71.10     |
| 1408        | Stepped type Modular Fan regulator (2 module)        | each | 285.75    |
| 1409        | Telephone Socket outlet modular type                 | each | 59.10     |
| 1410        | T.V. Socket outlet modular type                      | each | 61.00     |
| 1411        | Modular blanking plate                               | each | 13.05     |
| 1420        | Modular base & cover plate for 1 module              | each | 36.90     |
| 1421        | Modular base & cover plate for 2 module              | each | 36.85     |
| 1422        | Modular base & cover plate for 3 module              | each | 44.50     |
| 1423        | Modular base & cover plate for 4 module              | each | 52.20     |
| 1424        | Modular base & cover plate for 6 module              | each | 68.00     |
| 1425        | Modular base & cover plate for 8 module              | each | 90.50     |
| 1426        | Modular base & cover plate for 12 module             | each | 131.40    |
| 1431        | S.P. 5/6 amps, one way switch, piano type ISI marked | each | 13.89     |

| Code<br>No. | Description  | Unit  | Rate<br>₹ |
|-------------|--|-------|-----------|
| 1432        | S.P. 5/6 amps, two way switch, piano type ISI marked             | each  | 19.01     |
| 1433        | S.P. 15/16 amps, one way switch, piano type ISI marked           | each  | 35.00     |
| 1434        | 3 pin 5/6 amps socket outlet, piano type ISI marked              | each  | 19.50     |
| 1435        | 6 pin 15/16 & 5/6 amps socket outlet, piano type ISI marked      | each  | 45.00     |
| 1436        | Bell push, piano type  | each  | 15.00     |
| 1437        | Telephone Socket outlet piano type                               | each  | 27.00     |
| 1438        | T.V. Socket outlet piano type                                    | each  | 16.00     |
| 1441        | Brass pendant holder   | each  | 28.00     |
| 1442        | Brass batten/ angle holder                                       | each  | 28.00     |
| 1443        | Brass bracket holder 16 mm                                       | each  | 31.56     |
| 1444        | Call bell/ buzzer, single phase                                  | each  | 38.00     |
| 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        | Astrononical time switch suitable for 1 output per phase and     |       |           |
|             | suitable for single phase supply                                 | each  | 2047.50   |
| 1449        | Astrononical time switch suitable for2 output per phase and      |       |           |
|             | suitable for single phase supply                                 | each  | 4426.50   |
| 1450        | Astrononical time switch suitable for 3output(1output per phase) |       |           |
|             | and suitable for three phase supply                              | each  | 5222.75   |
| 1451        | UTP 4 Pair CAT 6 LAN Cable                                       | per m | 19.78     |
|             | 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 | 4012.99   |
| 1502        | 300 amps. TPN, rising mains in metal enclosure with aluminium    |       |           |
|             | busbar including fixing clamp                                    | metre | 4195.40   |
| 1503        | 400 amps. TPN, rising mains in metal enclosure with aluminium    |       |           |
|             | busbar including fixing clamp                                    | metre | 5198.64   |
| 1504        | 600 amps. TPN, rising mains in metal enclosure with aluminium    |       |           |
|             | busbar including fixing clamp                                    | metre | 5837.07   |
| 1505        | 800 amps. TPN, rising mains in metal enclosure with aluminium    |       |           |
|             | busbar including fixing clamp                                    | metre | 7068.33   |
| 1511        | 16 amps. TPN, 2 way, distribution tap off box with ISI marked    |       |           |
|             | HRC fuses for rising mains                                       | each  | 7166.05   |
| 1512        | 16 amps. TPN, 4 way, distribution tap off box with ISI marked    |       |           |
|             | HRC fuses for rising mains                                       | each  | 13463.49  |
| 1513        | 16 amps. TPN, 6 way, distribution tap off box with ISI marked    |       |           |
|             | HRC fuses for rising mains                                       | each  | 19109.48  |
| 1514        | 16 amps. TPN, 8 way, distribution tap off box with ISI marked    |       |           |
|             | HRC fuses for rising mains                                       | each  | 26492.68  |

| Code<br>No. | Description   | Unit  | Rate<br>₹ |
|-------------|---|-------|-----------|
| 1515        | 32 amps. TPN, 2 way, distribution tap off box with ISI marked |       |           |
|             | HRC fuses for rising mains                                    | each  | 7383.21   |
| 1516        | 32 amps. TPN, 4 way, distribution tap off box with ISI marked |       |           |
|             | HRC fuses for rising mains                                    | each  | 15200.72  |
| 1517        | 32 amps. TPN, 6 way, distribution tap off box with ISI marked |       |           |
|             | HRC fuses for rising mains                                    | each  | 19978.09  |
| 1518        | 32 amps. TPN, 8 way, distribution tap off box with ISI marked |       |           |
|             | HRC fuses for rising mains                                    | each  | 27795.60  |
| 1519        | 63 amps. TPN, 2 way, distribution tap off box with ISI marked |       |           |
|             | HRC fuses for rising mains                                    | each  | 8425.54   |
| 1520        | 63 amps. TPN, 4 way, distribution tap off box with ISI marked |       |           |
|             | HRC fuses for rising mains                                    | each  | 15200.72  |
| 1521        | 63 amps. TPN, 6 way, distribution tap off box with ISI marked |       |           |
|             | HRC fuses for rising mains                                    | each  | 21281.01  |
| 1522        | 63 amps. TPN, 8 way, distribution tap off box with ISI marked |       |           |
|             | HRC fuses for rising mains                                    | each  | 29532.83  |
| 1526        | 200 amps. TPN, adaptor box with cable end box, with TPN       |       |           |
|             | disconnector FSU, ISI marked HRC fuses and brass              |       |           |
|             | compression gland for rising mains                            | each  | 11986.85  |
| 527         | 300 amps. TPN, adaptor box with cable end box, with TPN       |       |           |
|             | disconnector FSU, ISI marked HRC fuses and brass              |       |           |
|             | compression gland for rising mains                            | each  | 13029.19  |
| 528         | 400 amps. TPN, adaptor box with cable end box, with TPN       |       |           |
|             | disconnector FSU, ISI marked HRC fuses and brass              |       |           |
|             | compression gland for rising mains                            | each  | 14332.11  |
| 529         | 600 amps. TPN, adaptor box with cable end box, with TPN       |       |           |
|             | disconnector FSU, ISI marked HRC fuses and brass              |       |           |
|             | compression gland for rising mains                            | each  | 15461.3   |
| 530         | 800 amps. TPN, adaptor box with cable end box, with TPN       |       |           |
|             | disconnector FSU, ISI marked HRC fuses and brass              |       |           |
|             | compression gland for rising mains                            | each  | 17198.53  |
| 531         | 800 amps. TPN, bus trunking with aluminium busbars            | metre | 6731.75   |
| 532         | 1000 amps. TPN, bus trunking with aluminium busbars           | metre | 7991.24   |
| 533         | 1250 amps. TPN, bus trunking with aluminium busbars           | metre | 10249.63  |
| 534         | 1400 amps. TPN, bus trunking with aluminium busbars           | metre | 12855.47  |
| 535         | 1600 amps. TPN, bus trunking with aluminium busbars           | metre | 12855.47  |
| 536         | 200 amps. TPN, overhead busbars with aluminium busbars        | metre | 3821.90   |
| 537         | 400 amps. TPN, overhead busbars with aluminium busbars        | metre | 4951.09   |
| 538         | 32 amps. TPN, plug-in-box with TPN disconnector FSU and       |       |           |
|             | ISI marked HRC fuses for overhead busbars                     | each  | 4318.25   |

| Code<br>No. | Description   | Unit  | Rate<br>₹ |
|-------------|---|-------|-----------|
| 1539        | 63 amps. TPN, plug-in-box with TPN disconnector FSU and   |       |           |
|             | ISI marked HRC fuses for overhead busbars                 | each  | 4839.41   |
| 1540        | 100 amps. TPN, plug-in-box with TPN disconnector FSU and  |       |           |
|             | ISI marked HRC fuses for overhead busbars                 | each  | 5583.94   |
| 1541        | 16 amps. TPN, one way, tap off box with TPN disconnector  |       |           |
|             | FSU and ISI marked HRC fuses for rising mains             | each  | 4777.37   |
| 1542        | 32 amps. TPN, one way, tap off box with TPN disconnector  |       |           |
|             | FSU and ISI marked HRC fuses for rising mains             | each  | 5037.95   |
| 1543        | 63 amps. TPN, one way, tap off box with TPN disconnector  |       |           |
|             | FSU and ISI marked HRC fuses for rising mains             | each  | 5645.98   |
| 1544        | 100 amps. TPN, one way, tap off box with TPN disconnector |       |           |
|             | FSU and ISI marked HRC fuses for rising mains             | each  | 6514.59   |
| 1545        | 200 amps. TPN, one way, tap off box with TPN disconnector |       |           |
|             | FSU and ISI marked HRC fuses for rising mains             | each  | 10249.63  |
| 1546        | 315 amps. TPN, one way, tap off box with TPN disconnector |       |           |
|             | FSU and ISI marked HRC fuses for rising mains             | No    | 10857.66  |
| 1547        | 400 amps. TPN, one way, tap off box with TPN disconnector |       |           |
|             | FSU and ISI marked HRC fuses for rising mains             | No    | 11291.96  |
| 1551        | 200 amps. TPN, compact type rising mains with aluminium   |       |           |
|             | busbar including all accessories                          | metre | 4197.65   |
| 1552        | 315 amps. TPN, compact type rising mains with aluminium   |       |           |
|             | busbar including all accessories                          | metre | 4545.28   |
| 1553        | 400 amps. TPN, compact type rising mains with aluminium   |       |           |
|             | busbar including all accessories                          | metre | 5051.53   |
| 1554        | 500 amps. TPN, compact type rising mains with aluminium   |       |           |
|             | busbar including all accessories                          | metre | 5815.12   |
| 1555        | 630 amps. TPN, compact type rising mains with aluminium   |       |           |
|             | busbar including all accessories                          | metre | 6955.03   |
| 1556        | 800 amps. TPN, compact type rising mains with aluminium   |       |           |
|             | busbar including all accessories                          | metre | 9652.50   |
| 1557        | 1000 amps. TPN, compact type rising mains with aluminium  |       |           |
|             | busbar including all accessories                          | metre | 11264.90  |
| 1558        | 1250 amps. TPN, compact type rising mains with aluminium  |       |           |
| •           | busbar including all accessories                          | metre | 13366.68  |
| 1559        | 200 amps. TPN, compact type bus trunking with aluminium   |       |           |
| •           | busbar including elbows and other all accessories         | metre | 4617.84   |
| 1560        | 315 amps. TPN, compact type bus trunking with aluminium   |       | .5        |
| •           | busbar including elbows and other all accessories         | metre | 5253.18   |
| 1561        | 400 amps. TPN, compact type bus trunking with aluminium   |       |           |
|             | busbar including elbows and other all accessories         | metre | 5556.93   |

| Code<br>No. | Description  | Unit  | Rate<br>₹ |
|-------------|--|-------|-----------|
| 1562        | 500 amps. TPN, compact type bus trunking with aluminium  |       |           |
|             | busbar including elbows and other all accessories        | metre | 6396.46   |
| 1563        | 630 amps. TPN, compact type bus trunking with aluminium  |       |           |
|             | busbar including elbows and other all accessories        | metre | 7650.28   |
| 1564        | 800 amps. TPN, compact type bus trunking with aluminium  |       |           |
|             | busbar including elbows and other all accessories        | metre | 10456.88  |
| 1565        | 1000 amps. TPN, compact type bus trunking with aluminium |       |           |
|             | busbar including elbows and other all accessories        | metre | 12211.88  |
| 1566        | 1250 amps. TPN, compact type bus trunking with aluminium |       |           |
|             | busbar including elbows and other all accessories        | metre | 14703.18  |
| 1567        | 200 amps. TPN, End Feed Unit for compact rising mains    |       |           |
|             | including all accessories                                | each  | 3206.25   |
| 1568        | 315 amps. TPN, End Feed Unit for compact rising mains    |       |           |
|             | including all accessories                                | each  | 3341.25   |
| 1569        | 400 amps. TPN, End Feed Unit for compact rising mains    |       |           |
|             | including all accessories                                | each  | 4252.50   |
| 1570        | 500 amps. TPN, End Feed Unit for compact rising mains    |       |           |
|             | including all accessories                                | each  | 4455.00   |
| 1571        | 630 amps. TPN, End Feed Unit for compact rising mains    |       |           |
|             | including all accessories                                | each  | 5433.75   |
| 1572        | 800 amps. TPN, End Feed Unit for compact rising mains    |       |           |
|             | including all accessories                                | each  | 6817.50   |
| 1573        | 1000 amps. TPN, End Feed Unit for compact rising mains   |       |           |
|             | including all accessories                                | each  | 7222.50   |
| 1574        | 1250 amps. TPN, End Feed Unit for compact rising mains   |       |           |
|             | including all accessories                                | each  | 7627.50   |
| 1575        | 125 amps. TPN, TAP OFF Box for compact rising mains      |       |           |
|             | including all accessories                                | each  | 3712.50   |
| 1576        | 200 amps. TPN, TAP OFF Box for compact rising mains      |       |           |
|             | including all accessories                                | each  | 4725.00   |
| 1577        | 315 amps. TPN, TAP OFF Box for compact rising mains      |       |           |
|             | including all accessories                                | each  | 6075.00   |
| 1578        | 400 amps. TPN, TAP OFF Box for compact rising mains      |       |           |
|             | including all accessories                                | each  | 6075.00   |
| 1579        | 500 amps. TPN, TAP OFF Box for compact rising mains      |       |           |
|             | including all accessories                                | each  | 8775.00   |
| 1580        | 630 amps. TPN, TAP OFF Box for compact rising mains      |       |           |
|             | including all accessories                                | each  | 8775.00   |

| Code<br>No. | Description  | Unit  | Rate<br>₹ |
|-------------|--|-------|-----------|
|             | Sandwich Bus Trunking with Aluminium bus bar             |       |           |
| 1581        | 400 amps 25KA SC for 1 sec                               | per m | 7511.91   |
| 1582        | 500 amps 30KA SC for 1 sec                               | per m | 8198.72   |
| 1583        | 630 amps 50KA SC for 1 sec                               | per m | 8875.41   |
| 1584        | 800 amps 50KA SC for 1 sec                               | per m | 10823.63  |
| 1585        | 1000 amps 50KA SC for 1 sec                              | per m | 12214.97  |
| 1586        | 1250 amps 50KA SC for 1 sec                              | per m | 13955.63  |
| 1587        | 1600 amps 50KA SC for 1 sec                              | per m | 17630.16  |
| 1588        | 2000 amps 50KA SC for 1 sec                              | per m | 20754.56  |
| 1589        | 2500 amps 50KA SC for 1 sec                              | per m | 28136.53  |
| 1590        | 3200 amps 50KA SC for 1 sec                              | per m | 31574.81  |
| 1591        | 4000 amps 50KA SC for 1 sec                              | per m | 40497.47  |
|             | SWITCH DISCONNECTOR SFU AND MCCB                         |       |           |
| 1601        | 32 amps. TPN, switch disconnector fuse unit              |       |           |
|             | (Panel mounted type) with ISI marked HRC fuses           | each  | 1227.50   |
| 1602        | 63 amps. TPN, switch disconnector fuse unit              |       |           |
|             | (Panel mounted type) with ISI marked HRC fuses           | each  | 1682.85   |
| 1603        | 100 amps. TPN, switch disconnector fuse unit             |       |           |
|             | (Panel mounted type) with ISI marked HRC fuses           | each  | 3508.59   |
| 1604        | 125 amps. TPN, switch disconnector fuse unit             |       |           |
|             | (Panel mounted type) with ISI marked HRC fuses           | each  | 4681.95   |
| 1605        | 160 amps. TPN, switch disconnector fuse unit             |       |           |
|             | (Panel mounted type) with ISI marked HRC fuses           | each  | 5221.12   |
| 1606        | 200 amps. TPN switch fuse unit with ISI marked HRC fuses | each  | 5494.12   |
| 1607        | 315 amps. TPN switch fuse unit with ISI marked HRC fuses | each  | 9261.52   |
| 1608        | 400 amps. TPN switch fuse unit with ISI marked HRC fuses | each  | 10803.97  |
| 1610        | 3 pole MCCB, 100A, 16KA                                  | each  | 2517.48   |
| 1611        | 3 pole MCCB, 125A, 16KA                                  | each  | 3538.08   |
| 1612        | 3 pole MCCB, 150A, 16KA                                  | each  | 4354.56   |
| 1613        | 3 pole MCCB, 200A, 16KA                                  | each  | 6327.72   |
| 1614        | 3 pole MCCB, 200A, 25KA                                  | each  | 6667.92   |
| 1615        | 3 pole MCCB, 250A, 25KA                                  | each  | 8777.16   |
| 1616        | 3 pole MCCB, 250A, 35KA                                  | each  | 12587.40  |
| 1617        | 3 pole MCCB, 315A, 35KA                                  | each  | 15309.00  |
| 1618        | 3 pole MCCB, 400A, 35KA                                  | each  | 15309.00  |
| 1619        | 3 pole MCCB, 500A, 35KA                                  | each  | 17622.36  |
| 1620        | 3 pole MCCB, 630A, 50KA                                  | each  | 18234.72  |
| 1621        | 3 pole MCCB, 800A, 50KA                                  | each  | 23473.80  |
| 1622        | 4 pole MCCB,100A,30KA                                    | each  | 3907.50   |

| Code<br>No. | Description  | Unit | Rate<br>₹ |
|-------------|--|------|-----------|
| 1623        | 4 pole MCCB, 125A, 36KA                                    | each | 5595.00   |
| 1624        | 4 pole MCCB, 200A, 36KA                                    | each | 9360.00   |
| 1625        | 4 pole MCCB,250A, 36KA                                     | each | 10927.50  |
| 1626        | 4 pole MCCB,250A, 50KA                                     | each | 18397.50  |
| 1627        | 4 pole MCCB,400A, 50KA                                     | each | 22290.00  |
| 1628        | 4 pole MCCB,630A, 50KA                                     | each | 27592.50  |
|             | MCB'S, ISOLATORS, RCCB'S AND MCB DB'S                      | s    |           |
| 1706        | 6 amps. to 32 amps. ratings , SP MCB, "C" curve, 10 KA     |      |           |
|             | breaking capacity  | each | 99.75     |
| 1707        | 6 amps. to 32 amps. ratings , SPN MCB, "C" curve, 10 KA    |      |           |
|             | breaking capacity  | each | 317.52    |
| 1708        | 6 amps. to 32 amps. ratings , DP MCB, "C" curve,           |      |           |
|             | 10 KA breaking capacity                                    | each | 328.86    |
| 1709        | 6 amps. to 32 amps. ratings , TP MCB, "C" curve,           |      |           |
|             | 10 KA breaking capacity                                    | each | 498.96    |
| 1710        | 6 amps. to 32 amps. ratings , TPN MCB, "C" curve,          |      |           |
|             | 10 KA breaking capacity                                    | each | 649.22    |
| 1711        | Single pole, blanking plate                                | each | 4.53      |
| 1712        | 40 amps., 2 pole isolator                                  | each | 204.12    |
| 1713        | 63 amps., 2 pole isolator                                  | each | 257.99    |
| 1714        | 40 amps., 4 pole isolator                                  | each | 467.78    |
| 1715        | 63 amps., 4 pole isolator                                  | each | 476.28    |
| 1716        | 100 amps., 4 pole isolator                                 | each | 612.36    |
| 1717        | 25 amps. rating, 2 pole RCCB, 100mA/ 300mA                 | each | 1196.37   |
| 1718        | 40 amps. rating, 2 pole RCCB, 100mA/ 300mA                 | each | 1267.25   |
| 1719        | 63 amps. rating, 2 pole RCCB, 100mA/ 300mA                 | each | 1666.98   |
| 1720        | 25 amps. rating, 4 pole RCCB, 100mA/ 300mA                 | each | 1513.89   |
| 1721        | 40 amps. rating, 4 pole RCCB, 100mA/ 300mA                 | each | 1536.57   |
| 1722        | 63 amps. rating, 4 pole RCCB, 100mA/ 300mA                 | each | 1780.38   |
| 1723        | 16/25 amps. rating, 2 pole RCBO 100mA/ 300mA sensitivity   | each | 1494.05   |
| 1724        | 32 amps. rating, 2 pole RCBO 100mA/ 300mA sensitivity      | each | 1494.05   |
| '1725       | 40 amps. rating, 2 pole RCBO 100mA/ 300mA sensitivity      | each | 1788.89   |
| 1726        | 16/25 amps. rating, 4 pole RCBO 100mA/ 300mA sensitivity   | each | 1879.61   |
| 1727        | 32 amps. rating, 4 pole RCBO 100mA/ 300mA sensitivity      | each | 1879.61   |
| 1728        | 40 amps. rating, 4 pole RCBO 100mA/ 300mA sensitivity      | each | 2024.19   |
| 1730        | 20 amps. SPN, industrial type socket outlet, with plug top |      |           |
|             | and metal chained cover in sheet steel enclosure           | each | 393.75    |
| 1731        | 20 amps. TPN, industrial type socket outlet, with plug top |      |           |
|             | and metal chained cover in sheet steel enclosure           | each | 986.58    |

| Code<br>No. | Description  | Unit | Rate<br>₹ |
|-------------|--|------|-----------|
| 1732        | 30 amps. TPN, industrial type socket outlet, with plug top     |      |           |
|             | and metal chained cover in sheet steel enclosure               | each | 1233.23   |
| 1734        | 2+2 way, SPN, single door, MCB DB                              | each | 306.07    |
| 1735        | 2+4 way, SPN, single door, MCB DB                              | each | 343.61    |
| 1736        | 2+6 way, SPN, single door, MCB DB                              | each | 381.15    |
| 1737        | 2+10 way, SPN, single door, MCB DB                             | each | 516.86    |
| 1738        | 2+2 way, SPN, double door, MCB DB                              | each | 519.75    |
| 1739        | 2+4 way, SPN, double door, MCB DB                              | each | 594.82    |
| 1740        | 2+6 way, SPN, double door, MCB DB                              | each | 669.90    |
| 1741        | 2+10 way, SPN, double door, MCB DB                             | each | 869.14    |
| 1742        | Sheet steel DP MCB enclosure                                   | each | 147.26    |
| 1743        | Sheet steel TP MCB enclosure                                   | each | 167.47    |
| 1751        | 4 way (4+12), TPN, MCB DB, single door, horizontal type        | each | 999.07    |
| 1752        | 6 way (4+18), TPN, MCB DB, single door, horizontal type        | each | 1192.54   |
| 1753        | 8 way (4+24), TPN, MCB DB, single door, horizontal type        | each | 1331.14   |
| 1754        | 4 way (4+12), TPN, MCB DB, double door, horizontal type        | each | 1400.44   |
| 1755        | 6 way (4+18), TPN, MCB DB, double door, horizontal type        | each | 1772.92   |
| 1756        | 8 way (4+24), TPN, MCB DB, double door, horizontal type        | each | 2229.15   |
| 1757        | 4 way (4+12), TPN, vertical type, MCB DB, single door          | each | 2382.19   |
| 1758        | 8 way (4+24), TPN, vertical type, MCB DB, single door          | each | 3366.82   |
| 1759        | 12 way (4+36), TPN, vertical type, MCB DB, single door         | each | 4342.80   |
| 1760        | 4 way (4+12), TPN, vertical type, MCB DB, double door          | each | 3488.10   |
| 1761        | 8 way (4+24), TPN, vertical type, MCB DB, double door          | each | 4440.97   |
| 1762        | 12 way (4+36), TPN, vertical type, MCB DB, double door         | each | 5691.26   |
| 1763        | 4 way, TPN, vertical type, single door, MCB DB with provision  |      |           |
|             | to mount MCCB as incomer                                       | each | 4351.46   |
| 1764        | 8 way, TPN, vertical type, single door, MCB DB with provision  |      |           |
|             | to mount MCCB as incomer                                       | each | 5593.37   |
| 1765        | 12 way, TPN, vertical type, single door, MCB DB with provision |      |           |
|             | to mount MCCB as incomer                                       | each | 7635.99   |
| 1771        | 2 + 4 way, SPN, prewired MCB DB with extended loose            |      |           |
|             | wire box, single door  | each | 1455.30   |
| 1772        | 2 + 8 way, SPN, prewired MCB DB with extended loose            |      |           |
|             | wire box, single door  | each | 1767.15   |
| 1773        | 2 + 12 way, SPN, prewired MCB DB with extended loose           |      |           |
|             | wire box, single door  | each | 2096.32   |
| 1774        | 2 + 4 way, SPN, prewired MCB DB with extended loose            |      |           |
|             | wire box, double door  | each | 1866.76   |
| 1775        | 2 + 8 way, SPN, prewired MCB DB with extended loose            |      |           |
|             | wire box, double door  | each | 2265.24   |

| Code<br>No. | Description   | Unit | Rate<br>₹ |
|-------------|---|------|-----------|
| 1776        | 2 + 12 way, SPN, prewired MCB DB with extended loose    |      |           |
|             | wire box, double door                                   | each | 2772.00   |
| 1779        | 4 way, (4+12) TPN, prewired MCB DB with extended loose  |      |           |
|             | wire box, single door                                   | each | 5050.24   |
| 1780        | 6 way, (4+18) TPN, prewired MCB DB with extended loose  |      |           |
|             | wire box, single door                                   | each | 6574.84   |
| 1781        | 8 way, (4+24) TPN, prewired MCB DB with extended loose  |      |           |
|             | wire box, single door                                   | each | 7553.70   |
| 1782        | 12 way, (4+36) TPN, prewired MCB DB with extended loose |      |           |
|             | wire box, single door                                   | each | 9325.18   |
| 1783        | 4 way, (4+12) TPN, prewired MCB DB with extended loose  |      |           |
|             | wire box, double door                                   | each | 5808.20   |
| 1784        | 6 way, (4+18) TPN, prewired MCB DB with extended loose  |      |           |
|             | wire box, double door                                   | each | 7562.36   |
| 1785        | 8 way, (4+24) TPN, prewired MCB DB with extended loose  |      |           |
|             | wire box, double door                                   | each | 8307.34   |
| 1786        | 12 way, (4+36) TPN, prewired MCB DB with extended loose |      |           |
|             | wire box, double door                                   | each | 10256.40  |
| 1787        | 4 way (4+4), TPN, vertical type, prewired, MCB DB       |      |           |
|             | with extended loose wire box, single door               | each | 5440.05   |
| 1788        | 6 way (4+6), TPN, vertical type, prewired, MCB DB       |      |           |
|             | with extended loose wire box, single door               | each | 7085.92   |
| 1789        | 8 way (4+8), TPN, vertical type, prewired, MCB DB       |      |           |
|             | with extended loose wire box, single door               | each | 8082.11   |
| 1790        | 12 way (4+12), TPN, vertical type, prewired, MCB DB     |      |           |
|             | with extended loose wire box, single door               | each | 10802.14  |
| 1791        | 4 way (4+4), TPN, vertical type, prewired, MCB DB       |      |           |
|             | with extended loose wire box, double door               | each | 6254.32   |
| 1792        | 6 way (4+6), TPN, vertical type, prewired, MCB DB       |      |           |
|             | with extended loose wire box, double door               | each | 8142.75   |
| 1793        | 8 way (4+8), TPN, vertical type, prewired, MCB DB       |      |           |
|             | with extended loose wire box, double door               | each | 8896.39   |
| 1794        | 12 way (4+12), TPN, vertical type, prewired, MCB DB     |      |           |
|             | with extended loose wire box, double door               | each | 11884.95  |
|             | BRASS COMPRESSION GLANDS                                |      |           |
| 2101        | Brass compression gland (19 mm) for 2 X 6 sq. mm        |      |           |
|             | 1.1 KV grade cable                                      | set  | 39.69     |
| 2102        | Brass compression gland (19 mm) for 2 X 10 sq. mm       |      |           |
|             | 1.1 KV grade cable                                      | set  | 39.69     |

| Code<br>No. | Description  | Unit | Rate<br>₹ |
|-------------|--|------|-----------|
| 2103        | Brass compression gland for (22 mm) 2 X 16 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 45.75     |
| 2104        | Brass compression gland for (22 mm) 2 X 25 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 45.75     |
| 2105        | Brass compression gland for (25 mm) 2 X 35 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 67.25     |
| 2106        | Brass compression gland for (28 mm) 2 X 50 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 104.19    |
| 2107        | Brass compression gland for (22 mm) 3 X 10 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 45.75     |
| 2108        | Brass compression gland for (25 mm) 3 X 16 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 67.25     |
| 2109        | Brass compression gland for (25 mm) 3 X 25 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 67.25     |
| 2110        | Brass compression gland for (28 mm) 3 X 35 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 104.19    |
| 2111        | Brass compression gland for (32 mm) 3 X 50 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 118.52    |
| 2112        | Brass compression gland for (35 mm) 3 X 70 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 147.18    |
| 2113        | Brass compression gland for (38 mm) 3 X 95 sq. mm  |      |           |
|             | 1.1 KV grade cable                                 | set  | 169.23    |
| 2114        | Brass compression gland for (45 mm) 3 X 120 sq. mm |      |           |
|             | 1.1 KV grade cable                                 | set  | 203.96    |
| 2115        | Brass compression gland for (50 mm) 3 X 150 sq. mm |      |           |
|             | 1.1 KV grade cable                                 | set  | 258.54    |
| 2116        | Brass compression gland for (57 mm) 3 X 185 sq. mm |      |           |
|             | 1.1 KV grade cable                                 | set  | 364.38    |
| 2117        | Brass compression gland for (62 mm) 3 X 225 sq. mm |      |           |
|             | 1.1 KV grade cable                                 | set  | 452.02    |
| 2118        | Brass compression gland for (62 mm) 3 X 240 sq. mm |      |           |
|             | 1.1 KV grade cable                                 | set  | 452.02    |
| 2119        | Brass compression gland for (70 mm) 3 X 300 sq. mm |      |           |
|             | 1.1 KV grade cable                                 | set  | 486.75    |
| 2120        | Brass compression gland for (28 mm) 3½ X 25 sq. mm |      |           |
|             | 1.1 KV grade cable                                 | set  | 104.19    |
| 2121        | Brass compression gland for (32 mm) 3½ X 35 sq. mm |      |           |
|             | 1.1 KV grade cable                                 | set  | 118.52    |
| 2122        | Brass compression gland for (35 mm) 3½ X 50 sq. mm |      |           |
|             | 1.1 KV grade cable                                 | set  | 147.18    |

| Code<br>No. | Description   | Unit | Rate<br>₹ |
|-------------|---|------|-----------|
| 2123        | Brass compression gland for (38 mm) 3½ X 70 sq. mm  |      |           |
|             | 1.1 KV grade cable                                  | set  | 169.23    |
| 2124        | Brass compression gland for (45 mm) 3½ X 95 sq. mm  |      |           |
|             | 1.1 KV grade cable                                  | set  | 203.96    |
| 2125        | Brass compression gland for (45 mm) 3½ X 120 sq. mm |      |           |
|             | 1.1 KV grade cable                                  | set  | 203.96    |
| 2126        | Brass compression gland for (50 mm) 3½ X 150 sq. mm |      |           |
|             | 1.1 KV grade cable                                  | set  | 258.54    |
| 2127        | Brass compression gland for (57 mm) 3½ X 185 sq. mm |      |           |
|             | 1.1 KV grade cable                                  | set  | 364.38    |
| 2128        | Brass compression gland for (62 mm) 3½ X 225 sq. mm |      |           |
|             | 1.1 KV grade cable                                  | set  | 452.02    |
| 2129        | Brass compression gland for (62 mm) 3½ X 240 sq. mm |      |           |
|             | 1.1 KV grade cable                                  | set  | 452.02    |
| 2130        | Brass compression gland for (70 mm) 3½ X 300 sq. mm |      |           |
|             | 1.1 KV grade cable                                  | set  | 486.75    |
| 2131        | Brass compression gland for (82 mm) 3½ X 400 sq. mm |      |           |
|             | 1.1 KV grade cable                                  | set  | 620.16    |
| 2132        | Brass compression gland for (25 mm) 4 X 10 sq. mm   |      |           |
|             | 1.1 KV grade cable                                  | set  | 67.25     |
| 2133        | Brass compression gland for (28 mm) 4 X 16 sq. mm   |      |           |
|             | 1.1 KV grade cable                                  | set  | 104.19    |
| 2134        | Brass compression gland for (28 mm) 4 X 25 sq. mm   |      |           |
|             | 1.1 KV grade cable                                  | set  | 104.19    |
| 2135        | Brass compression gland for (32 mm) 4 X 35 sq. mm   |      |           |
|             | 1.1 KV grade cable                                  | set  | 118.52    |
| 2136        | Brass compression gland for (35 mm) 4 X 50 sq. mm   |      |           |
|             | 1.1 KV grade cable                                  | set  | 147.18    |
|             | ALUMINIUM LUGS                                      |      |           |
| 2201        | Aluminium lugs for 6 sq. mm cable                   | each | 1.52      |
| 2202        | Aluminium lugs for 10 sq. mm cable                  | each | 2.03      |
| 2203        | Aluminium lugs for 16 sq. mm cable                  | each | 2.36      |
| 2204        | Aluminium lugs for 25 sq. mm cable                  | each | 3.07      |
| 2205        | Aluminium lugs for 35 sq. mm cable                  | each | 3.74      |
| 2206        | Aluminium lugs for 50 sq. mm cable                  | each | 6.00      |
| 2207        | Aluminium lugs for 70 sq. mm cable                  | each | 9.22      |
| 2208        | Aluminium lugs for 95 sq. mm cable                  | each | 10.35     |
| 2209        | Aluminium lugs for 120 sq. mm cable                 | each | 13.94     |
| 2210        | Aluminium lugs for 150 sq. mm cable                 | each | 19.46     |

| Code<br>No. | Description   | Unit | Rate<br>₹ |
|-------------|---|------|-----------|
| 2211        | Aluminium lugs for 185 sq. mm cable                           | each | 24.29     |
| 2212        | Aluminium lugs for 225 sq. mm cable                           | each | 32.14     |
| 2213        | Aluminium lugs for 240 sq. mm cable                           | each | 37.81     |
| 2214        | Aluminium lugs for 300 sq. mm cable                           | each | 57.65     |
| 2215        | Aluminium lugs for 400 sq. mm cable                           | each | 84.32     |
|             | 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  | 310.17    |
| 2301        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 2 X 25 sq. mm 1.1 KV grade cable                          | set  | 346.92    |
| 2302        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 2 X 35 sq. mm 1.1 KV grade cable                          | set  | 346.92    |
| 2303        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 2 X 50 sq. mm 1.1 KV grade cable                          | set  | 346.92    |
| 2304        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 16 sq. mm 1.1 KV grade cable                          | set  | 346.92    |
| 2305        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 25 sq. mm 1.1 KV grade cable                          | set  | 346.92    |
| 2306        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 35 sq. mm 1.1 KV grade cable                          | set  | 346.92    |
| 2307        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 50 sq. mm 1.1 KV grade cable                          | set  | 382.20    |
| 2308        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 70 sq. mm 1.1 KV grade cable                          | set  | 382.20    |
| 2309        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 95 sq. mm 1.1 KV grade cable                          | set  | 428.51    |
| 2310        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 120 sq. mm 1.1 KV grade cable                         | set  | 428.51    |
| 2311        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 150 sq. mm 1.1 KV grade cable                         | set  | 428.51    |
| 2312        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 185 sq. mm 1.1 KV grade cable                         | set  | 655.62    |
| 2313        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 225 sq. mm 1.1 KV grade cable                         | set  | 655.62    |
| 2314        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 240 sq. mm 1.1 KV grade cable                         | set  | 799.68    |
| 2315        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 3 X 300 sq. mm 1.1 KV grade cable                         | set  | 799.68    |
| 2316        | Outdoor cable jointing kit with cast resin compound with lugs |      |           |
|             | for 31/2 X 25 sq. mm 1.1 KV grade cable                       | set  | 346.92    |

| Code<br>No. | Description   | Unit            | Rate<br>₹ |
|-------------|---|-----------------|-----------|
| 2217        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 35 sq. mm 1.1 KV grade cable                         | set             | 382.20    |
| 2318        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 50 sq. mm 1.1 KV grade cable                         | set             | 382.20    |
| 2319        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 70 sq. mm 1.1 KV grade cable                         | set             | 435.86    |
| 2320        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 95 sq. mm 1.1 KV grade cable                         | set             | 435.86    |
| 2321        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 120 sq. mm 1.1 KV grade cable                        | set             | 435.86    |
| 2322        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 150 sq. mm 1.1 KV grade cable                        | set             | 655.62    |
| 2323        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 185 sq. mm 1.1 KV grade cable                        | set             | 655.62    |
| 2324        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 225 sq. mm 1.1 KV grade cable                        | set             | 799.68    |
| 2325        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 240 sq. mm 1.1 KV grade cable                        | set             | 799.68    |
| 2326        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 300 sq. mm 1.1 KV grade cable                        | set             | 799.68    |
| 2327        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 3½ X 400 sq. mm 1.1 KV grade cable                        | set             | 965.06    |
| 2328        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 4 X 16 sq. mm 1.1 KV grade cable                          | set             | 346.92    |
| 2329        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 4 X 25 sq. mm 1.1 KV grade cable                          | set             | 346.92    |
| 2330        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 4 X 35 sq. mm 1.1 KV grade cable                          | set             | 382.20    |
| 2331        | Outdoor cable jointing kit with cast resin compound with lugs |                 |           |
|             | for 4 X 50 sq. mm 1.1 KV grade cable                          | set             | 382.20    |
| 2332        | Straight through cable jointing kit with cast resin compound  |                 | 000       |
|             | with ferrules for 2 X 16 sq. mm 1.1 KV grade cable            | set             | 821.73    |
| 2333        | Straight through cable jointing kit with cast resin compound  | 001             | 021.70    |
| -000        | with ferrules for 2 X 25 sq. mm 1.1 KV grade cable            | set             | 821.73    |
| 2334        | Straight through cable jointing kit with cast resin compound  | 001             | 021.10    |
| -55-        | with ferrules for 2 X 35 sq. mm 1.1 KV grade cable            | set             | 821.73    |
| 2335        | Straight through cable jointing kit with cast resin compound  | 361             | 021.70    |
| _000        | with ferrules for 2 X 50 sq. mm 1.1 KV grade cable            | set             | 962.85    |
| 2336        | Straight through cable jointing kit with cast resin compound  | ૩૦ા             | 302.00    |
|             |   | so <del>t</del> | 924 72    |
|             | with ferrules for 3 X 16 sq. mm 1.1 KV grade cable            | set             | 821.73    |

| Code<br>No. | Description  | Unit        | Rate<br>₹ |
|-------------|--|-------------|-----------|
| 2337        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 25 sq. mm 1.1 KV grade cable           | set         | 821.73    |
| 2338        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 35 sq. mm 1.1 KV grade cable           | set         | 962.85    |
| 2339        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 50 sq. mm 1.1 KV grade cable           | set         | 962.85    |
| 2340        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 70 sq. mm 1.1 KV grade cable           | set         | 1148.07   |
| 2341        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 95 sq. mm 1.1 KV grade cable           | set         | 1184.82   |
| 2342        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 120 sq. mm 1.1 KV grade cable          | set         | 1347.26   |
| 2343        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 150 sq. mm 1.1 KV grade cable          | set         | 1347.26   |
| 2344        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 185 sq. mm 1.1 KV grade cable          | set         | 1649.34   |
| 2345        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 225 sq. mm 1.1 KV grade cable          | set         | 1895.57   |
| 2346        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 240 sq. mm 1.1 KV grade cable          | set         | 1929.38   |
| 2347        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3 X 300 sq. mm 1.1 KV grade cable          | set         | 2383.61   |
| 2348        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3½ X 25 sq. mm 1.1 KV grade cable          | set         | 962.85    |
| 2349        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3½ X 35 sq. mm 1.1 KV grade cable          | set         | 962.85    |
| 2350        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3½ X 50 sq. mm 1.1 KV grade cable          | set         | 1148.07   |
| 2351        | Straight through cable jointing kit with cast resin compound |             |           |
|             | with ferrules for 3½ X 70 sq. mm 1.1 KV grade cable          | set         | 1184.82   |
| 2352        | Straight through cable jointing kit with cast resin compound | 001         | 1101.02   |
| -002        | with ferrules for 3½ X 95 sq. mm 1.1 KV grade cable          | set         | 1347.26   |
| 2353        | Straight through cable jointing kit with cast resin compound | 301         | 10-11.20  |
| -550        | with ferrules for 3½ X 120 sq. mm 1.1 KV grade cable         | set         | 1649.34   |
| 2354        | Straight through cable jointing kit with cast resin compound | 301         | 10-10.0-  |
| -50-7       | with ferrules for 3½ X 150 sq. mm 1.1 KV grade cable         | set         | 1649.34   |
| 2355        | Straight through cable jointing kit with cast resin compound | <b>૩</b> ૦૧ | 1043.34   |
| .000        | with ferrules for 3½ X 185 sq. mm 1.1 KV grade cable         | set         | 1895.57   |
| 2356        | Straight through cable jointing kit with cast resin compound | <b>૩</b> ૯૧ | 1033.31   |
| .000        | with ferrules for 3½ X 225 sq. mm 1.1 KV grade cable         | set         | 1929.38   |
|             | with retruited for 3/2 A 220 Sq. Hilli 1.1 KV grade cable    | set         | 1929.30   |

| Code<br>No. | Description  | Unit  | Rate<br>₹ |
|-------------|--|-------|-----------|
| 2357        | Straight through cable jointing kit with cast resin compound   |       |           |
|             | with ferrules for 3½ X 240 sq. mm 1.1 KV grade cable   | set   | 2383.61   |
| 2358        | Straight through cable jointing kit with cast resin compound   |       |           |
|             | with ferrules for 31/2 X 300 sq. mm 1.1 KV grade cable   | set   | 2856.95   |
| 2349        | Straight through cable jointing kit with cast resin compound   |       |           |
|             | with ferrules for 31/2 X 400 sq. mm 1.1 KV grade cable   | set   | 3529.47   |
| 2360        | Straight through cable jointing kit with cast resin compound   |       |           |
|             | with ferrules for 4 X 16 sq. mm 1.1 KV grade cable   | set   | 821.73    |
| 2361        | Straight through cable jointing kit with cast resin compound   |       |           |
|             | with ferrules for 4 X 25 sq. mm 1.1 KV grade cable   | set   | 962.85    |
| 2362        | Straight through cable jointing kit with cast resin compound   |       |           |
|             | with ferrules for 4 X 35 sq. mm 1.1 KV grade cable   | set   | 962.85    |
| 2363        | Straight through cable jointing kit with cast resin compound   |       |           |
|             | with ferrules for 4 X 50 sq. mm 1.1 KV grade cable   | set   | 1148.07   |
| 2364        | Straight through cable jointing kit with heat shrinkable kit   |       |           |
|             | with ferrules for 2 X 16 sq. mm 1.1 KV grade cable   | set   | 323.40    |
| 365         | Straight through cable jointing kit with heat shrinkable kit   |       |           |
|             | with ferrules for 2 X 25 sq. mm 1.1 KV grade cable   | set   | 385.88    |
| 2366        | Straight through cable jointing kit with heat shrinkable kit   |       |           |
|             | with ferrules for 2 X 35 sq. mm 1.1 KV grade cable   | set   | 385.88    |
| 2367        | Straight through cable jointing kit with heat shrinkable kit   |       |           |
|             | with ferrules for 2 X 50 sq. mm 1.1 KV grade cable   | set   | 385.88    |
| 2368        | Straight through cable jointing kit with heat shrinkable kit   |       |           |
|             | with ferrules for 3 X 16 sq. mm 1.1 KV grade cable   | set   | 529.20    |
| 2369        | Straight through cable jointing kit with heat shrinkable kit   |       | 5-55      |
|             | with ferrules for 3 X 25 sq. mm 1.1 KV grade cable   | set   | 668.85    |
| 2370        | Straight through cable jointing kit with heat shrinkable kit   | 001   | 000.00    |
| .0.0        | with ferrules for 3 X 35 sq. mm 1.1 KV grade cable   | set   | 668.85    |
| 2371        | Straight through cable jointing kit with heat shrinkable kit   | 001   | 000.00    |
| .07 1       | with ferrules for 3 X 50 sq. mm 1.1 KV grade cable   | set   | 668.85    |
| 2372        | Straight through cable jointing kit with heat shrinkable kit   | 301   | 000.00    |
| -012        | with ferrules for 3 X 70 sq. mm 1.1 KV grade cable   | set   | 712.95    |
| 2373        | Straight through cable jointing kit with heat shrinkable kit   | 301   | 7 12.55   |
| .070        | with ferrules for 3 X 95 sq. mm 1.1 KV grade cable   | set   | 712.95    |
| 2374        |  | 361   | 7 12.93   |
| .014        | Straight through cable jointing kit with heat shrinkable kit   | cot   | 712 05    |
| 275         | with ferrules for 3 X 120 sq. mm 1.1 KV grade cable  Straight through cable injetting kit with heat shrinkable kit | set   | 712.95    |
| 2375        | Straight through cable jointing kit with heat shrinkable kit   | co+   | 740.05    |
| 276         | with ferrules for 3 X 150 sq. mm 1.1 KV grade cable  | set   | 712.95    |
| 2376        | Straight through cable jointing kit with heat shrinkable kit   | c - 1 | 000.00    |
|             | with ferrules for 3 X 185 sq. mm 1.1 KV grade cable  | set   | 882.00    |

| Code<br>No. | Description  | Unit | Rate<br>₹ |
|-------------|--|------|-----------|
| <br>2377    | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 3 X 225 sq. mm 1.1 KV grade cable          | set  | 882.00    |
| 2378        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 3 X 240 sq. mm 1.1 KV grade cable          | set  | 882.00    |
| 2379        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 3 X 300 sq. mm 1.1 KV grade cable          | set  | 882.00    |
| 2380        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 31/2 X 25 sq. mm 1.1 KV grade cable        | set  | 823.20    |
| 2381        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 31/2 X 35 sq. mm 1.1 KV grade cable        | set  | 823.20    |
| 2382        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 3½ X 50 sq. mm 1.1 KV grade cable          | set  | 1212.75   |
| 2383        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 3½ X 70 sq. mm 1.1 KV grade cable          | set  | 1212.75   |
| 2384        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 31/2 X 95 sq. mm 1.1 KV grade cable        | set  | 1212.75   |
| 2385        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 3½ X 120 sq. mm 1.1 KV grade cable         | set  | 1617.00   |
| 2386        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 31/2 X 150 sq. mm 1.1 KV grade cable       | set  | 1617.00   |
| 2387        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 31/2 X 185 sq. mm 1.1 KV grade cable       | set  | 1617.00   |
| 2388        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 3½ X 225 sq. mm 1.1 KV grade cable         | set  | 2131.50   |
| 2389        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 3½ X 240 sq. mm 1.1 KV grade cable         | set  | 2131.50   |
| 2390        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 3½ X 300 sq. mm 1.1 KV grade cable         | set  | 2131.50   |
| 2391        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 3½ X 400 sq. mm 1.1 KV grade cable         | set  | 2873.85   |
| 2392        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 4 X 16 sq. mm 1.1 KV grade cable           | set  | 676.20    |
| 2393        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 4 X 25 sq. mm 1.1 KV grade cable           | set  | 823.20    |
| 2394        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 4 X 35 sq. mm 1.1 KV grade cable           | set  | 823.20    |
| 2395        | Straight through cable jointing kit with heat shrinkable kit |      |           |
|             | with ferrules for 4 X 50 sq. mm 1.1 KV grade cable           | set  | 1212.75   |

| Code<br>No.   | Description   | Unit        | Rate<br>₹           |
|---------------|---|-------------|---------------------|
|               | 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         | 1688.40             |
| 2414          | Indoor cable jointing kit with cast resin compound with lugs      |             |                     |
|               | for 11 KV grade XLPE cable for 3 core 120 sq. mm.                 | set         | 1955.10             |
| 2415          | Indoor cable jointing kit with cast resin compound with lugs      |             |                     |
|               | for 11 KV grade XLPE cable for 3 core 240 sq. mm.                 | set         | 2299.50             |
| 2416          | Indoor cable jointing kit with cast resin compound with lugs      |             |                     |
|               | for 11 KV grade XLPE cable for 3 core 300 sq. mm.                 | set         | 2299.50             |
| 2417          | Outdoor cable jointing kit with cast resin compound with lugs     |             |                     |
|               | for 11 KV grade XLPE cable for 3 core 70 sq. mm.                  | set         | 4270.35             |
| 2418          | Outdoor cable jointing kit with cast resin compound with lugs     |             |                     |
|               | for 11 KV grade XLPE cable for 3 core 120 sq. mm.                 | set         | 5215.35             |
| 2419          | Outdoor cable jointing kit with cast resin compound with lugs     |             |                     |
|               | for 11 KV grade XLPE cable for 3 core 240 sq. mm.                 | set         | 6370.35             |
| 2420          | Outdoor cable jointing kit with cast resin compound with lugs     |             |                     |
|               | for 11 KV grade XLPE cable for 3 core 300 sq. mm.                 | set         | 6370.35             |
| 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         | 2537.85             |
| 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         | 2537.85             |
| 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         | 3806.25             |
| 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         | 4791.15             |
| 2437          | Indoor heat shrinkable cable jointing kit with lugs for 11 KV     |             |                     |
|               | grade XLPE cable for 3 core 70 sq. mm.                            | set         | 4370.63             |
| 2438          | Indoor heat shrinkable cable jointing kit with lugs for 11 KV     |             |                     |
|               | grade XLPE cable for 3 core 120 sq. mm.                           | set         | 5118.75             |
| 2439          | Indoor heat shrinkable cable jointing kit with lugs for 11 KV     |             |                     |
|               | grade XLPE cable for 3 core 240 sq. mm.                           | set         | 5381.25             |
| 2440          | Indoor heat shrinkable cable jointing kit with lugs for 11 KV     |             |                     |
| -             | grade XLPE cable for 3 core 300 sq. mm.                           | set         | 5381.25             |
| 2441          | Outdoor heat shrinkable cable jointing kit with lugs for 11 KV    |             |                     |
|               | grade XLPE cable for 3 core 70 sq. mm.                            | set         | 6174.00             |
| 2442          | Outdoor heat shrinkable cable jointing kit with lugs for 11 KV    |             |                     |
| · <del></del> | grade XLPE cable for 3 core 120 sq. mm.                           | set         | 6615.00             |
| 2443          | Outdoor heat shrinkable cable jointing kit with lugs for 11 KV    |             | 22.0.00             |
|               | grade XLPE cable for 3 core 240 sq. mm.                           | set         | 7441.88             |
|               | grade ALI L cable for 5 core 240 sq. IIIII.                       | <b>૩</b> ૯૧ | / <del>74</del> 1.( |

| No.  | Description   | Unit | Rate<br>₹ |
|------|---|------|-----------|
| 2444 | Outdoor heat shrinkable cable jointing kit with lugs for 11 KV    |      |           |
|      | grade XLPE cable for 3 core 300 sq. mm.                           | set  | 7441.88   |
| 2445 | Straight through heat shrinkable cable jointing kit with ferrules |      |           |
|      | for 11 KV grade XLPE cable for 3 core 70 sq. mm.                  | set  | 10253.25  |
| 2446 | Straight through heat shrinkable cable jointing kit with ferrules |      |           |
|      | for 11 KV grade XLPE cable for 3 core 120 sq. mm.                 | set  | 13062.00  |
| 2447 | Straight through heat shrinkable cable jointing kit with ferrules |      |           |
|      | for 11 KV grade XLPE cable for 3 core 240 sq. mm.                 | set  | 14269.50  |
| 2448 | Straight through heat shrinkable cable jointing kit with ferrules |      |           |
|      | for 11 KV grade XLPE cable for 3 core 300 sq. mm.                 | set  | 14269.50  |
| 528  | Indoor heat shrinkable cable jointing kit with lugs for 33 KV     |      |           |
|      | grade XLPE cable for 3 core 70 sq. mm.                            | set  | 7376.25   |
| 2529 | Indoor heat shrinkable cable jointing kit with lugs for 33 KV     |      |           |
|      | grade XLPE cable for 3 core 120 sq. mm.                           | set  | 7762.13   |
| 2530 | Indoor heat shrinkable cable jointing kit with lugs for 33 KV     |      |           |
|      | grade XLPE cable for 3 core 240 sq. mm.                           | set  | 11704.88  |
| 531  | Outdoor heat shrinkable cable jointing kit with lugs for 33 KV    |      |           |
|      | grade XLPE cable for 3 core 70 sq. mm.                            | set  | 9961.88   |
| 2532 | Outdoor heat shrinkable cable jointing kit with lugs for 33 KV    |      |           |
|      | grade XLPE cable for 3 core 120 sq. mm.                           | set  | 12311.25  |
| 533  | Outdoor heat shrinkable cable jointing kit with lugs for 33 KV    |      |           |
|      | grade XLPE cable for 3 core 240 sq. mm.                           | set  | 15925.88  |
| 534  | Straight through heat shrinkable cable jointing kit with ferrules |      |           |
|      | for 33 KV grade XLPE cable for 3 core 70 sq. mm.                  | set  | 25659.38  |
| 535  | Straight through heat shrinkable cable jointing kit with ferrules |      |           |
|      | for 33 KV grade XLPE cable for 3 core 120 sq. mm.                 | set  | 32426.63  |
| 536  | Straight through heat shrinkable cable jointing kit with ferrules |      |           |
|      | for 33 KV grade XLPE cable for 3 core 240 sq. mm.                 | set  | 45052.88  |
|      | OVER HEAD LINE ACCESSORIES  |      |           |
| 601  | Stay rod (1.8 M long, 19/20 mm dia.) with anchor plate 45 cm      |      |           |
| .001 | X 45 cm X 7.5 mm complete with thimble etc.                       | set  | 550.00    |
| 2602 | Stay wire ( 7/4.00 mm dia.)                                       | kg   | 48.00     |
| 2603 | Stay wire ( 7/3.15 mm dia.)                                       | kg   | 48.00     |
| 604  | Turn buckle ( 20 mm X 60 cm )                                     | each | 200.00    |
| .605 | Strain insulator  | each | 25.00     |
| :606 | Bow tightner  | each | 200.00    |
| 607  | Shackle insulator ( 75 mm X 90 mm ) with G.I. bolts and nuts      | set  | 38.00     |
| 2608 | Shackle insulator ( 100 mm X 110 mm ) with G.I. bolts and nuts    |      | 60.00     |
|      | ,   | set  | 33.00     |
| 2609 | Pin insulator ( 100 mm X 65 mm ) with G.I. spindle and nuts       | set  | 33.00     |

| Code<br>No. | Description  | Unit  | Rate<br>₹ |
|-------------|--|-------|-----------|
| 2610        | Pin insulator ( 100 mm X 80 mm ) with G.I. spindle and nuts  | set   | 35.00     |
| 2611        | MV horn gap lightning arrestor with pin insulator            |       |           |
|             | ( 100 mm X 65 mm ), spindle and brass metal parts etc.       | set   | 90.00     |
| 2615        | 15 amps aerial fuse complete with porcelain tube as required | each  | 15.00     |
| 2616        | 30 amps aerial fuse complete with porcelain tube as required | each  | 25.00     |
| 2618        | Stay clamp   | set   | 60.00     |
| 2619        | Brace ( 50 mm X 50 mm X 6 mm angle iron )                    | metre | 221.73    |
| 2620        | Angle iron bracket ( 50 mm X 50 mm X 6 mm ) 65 cm long       | each  | 144.00    |
| 2623        | Eye hook   | each  | 16.00     |
| 2624        | Guy clamp  | each  | 60.00     |
| 2635        | D' iron clamp (with coach screws)                            | each  | 75.00     |
| 2643        | Strain insulator 11 KV                                       | each  | 40.00     |
| 2644        | Strain insulator 33 KV                                       | each  | 65.00     |
| 2645        | 11 KV pin insulator with pin washers and nuts                | set   | 266.00    |
| 2646        | 11 KV disc insulator   | set   | 776.00    |
| 2647        | Galvanised insulator hardware fitting ball and socket type   |       |           |
|             | with strain clamps, bolts, nuts and washers                  | set   | 155.00    |
| 2648        | 33 KV pin insulator with pin washers and nuts                | set   | 855.00    |
| 2649        | Galvanised insulator hardware fitting ball and socket type   |       |           |
|             | with strain clamps, bolts, nuts and washers for 3 Nos        |       |           |
|             | 11 KV disk insulator   | set   | 425.00    |
| 2650        | 3 piece lightning arrestor set for 11 KV O.H. lines complete |       |           |
|             | with G.I. clamps bolts and nuts with washers                 | set   | 5062.50   |
| 2651        | Single piece lightning arrestor set for 33 KV O.H. lines     |       |           |
|             | complete with G.I. clamps bolts and nuts with washers        | set   | 37500.00  |
| 2665        | G.I. strap for shackle insulator                             | set   | 50.00     |
|             | CABLETRAYS   |       |           |
| 2701        | MS perforated cable tray painted with powder coating         |       |           |
|             | 100 X 50 X 1.6 mm  | metre | 242.55    |
| 2702        | MS perforated cable tray painted with powder coating         |       |           |
|             | 150 X 50 X 1.6 mm  | metre | 300.83    |
| 2703        | MS perforated cable tray painted with powder coating         |       |           |
|             | 225 X 50 X 1.6 mm  | metre | 394.54    |
| 2704        | MS perforated cable tray painted with powder coating         |       |           |
|             | 300 X 50 X 1.6 mm  | metre | 486.68    |
| 2705        | MS perforated cable tray painted with powder coating         |       |           |
|             | 375 X 50 X 2 mm  | metre | 622.13    |
| 2706        | MS perforated cable tray painted with powder coating         |       |           |
|             |  |       |           |

| Code<br>No. | Description  | Unit  | Rate<br>₹ |
|-------------|--|-------|-----------|
| <br>2707    | MS perforated cable tray painted with powder coating |       |           |
|             | 600 X 50 X 2 mm                                      | metre | 922.95    |
| 2708        | MS perforated cable tray painted with powder coating |       |           |
|             | 300 X 62.5 X 2 mm                                    | metre | 553.61    |
| 2709        | MS perforated cable tray painted with powder coating |       |           |
|             | 375 X 62.5 X 2 mm                                    | metre | 654.41    |
| 2710        | MS perforated cable tray painted with powder coating |       |           |
|             | 450 X 62.5 X 2 mm                                    | metre | 756.79    |
| 2711        | MS perforated cable tray painted with powder coating |       |           |
|             | 600 X 62.5 X 2 mm                                    | metre | 952.09    |
| 2712        | MS perforated cable tray painted with powder coating |       |           |
|             | 750 X 62.5 X 2 mm                                    | metre | 1131.64   |
| 2713        | MS perforated cable tray painted with powder coating |       |           |
|             | 900 X 62.5 X 2 mm                                    | metre | 1350.56   |
| 2714        | MS perforated cable tray painted with powder coating |       |           |
|             | 600 X 75 X 2 mm                                      | metre | 985.16    |
| 2715        | MS perforated cable tray painted with powder coating |       |           |
|             | 750 X 75 X 2 mm                                      | metre | 1159.2    |
| 2716        | MS perforated cable tray painted with powder coating |       |           |
|             | 900 X 75 X 2 mm                                      | metre | 1383.64   |
| 2717        | MS perforated cable tray Connector 100 X 50 X 1.6 mm | each  | 24.41     |
| 2718        | MS perforated cable tray Connector 150 X 50 X 1.6 mm | each  | 31.50     |
| 2719        | MS perforated cable tray Connector 225 X 50 X 1.6 mm | each  | 32.29     |
| 2720        | MS perforated cable tray Connector 300 X 50 X 1.6 mm | each  | 32.29     |
| 2721        | MS perforated cable tray Connector 375 X 50 X 2 mm   | each  | 35.44     |
| 2722        | MS perforated cable tray Connector 450 X 50 X 2 mm   | each  | 41.74     |
| 2723        | MS perforated cable tray Connector 600 X 50 X 2 mm   | each  | 45.68     |
| 2724        | MS perforated cable tray Connector 300 X 62.5 X 2 mm | each  | 35.44     |
| 2725        | MS perforated cable tray Connector 375 X 62.5 X 2 mm | each  | 40.95     |
| 2726        | MS perforated cable tray Connector 450 X 62.5 X 2 mm | each  | 44.89     |
| 2727        | MS perforated cable tray Connector 600 X 62.5 X 2 mm | each  | 49.22     |
| 2728        | MS perforated cable tray Connector 750 X 62.5 X 2 mm | each  | 54.73     |
| 2729        | MS perforated cable tray Connector 900 X 62.5 X 2 mm | each  | 57.49     |
| 2733        | MS perforated cable tray Bend 100 X 50 X 1.6 mm      | each  | 488.25    |
| 2734        | MS perforated cable tray Bend 150 X 50 X 1.6 mm      | each  | 600.08    |
| 2735        | MS perforated cable tray Bend 225 X 50 X 1.6 mm      | each  | 786.71    |
| 2736        | MS perforated cable tray Bend 300 X 50 X 1.6 mm      | each  | 978.08    |
| 2737        | MS perforated cable tray Bend 375 X 50 X 2 mm        | each  | 1242.68   |
| 2738        | MS perforated cable tray Bend 450 X 50 X 2 mm        | each  | 1449.79   |

| Code<br>No. | Description  | Unit | Rate<br>₹ |
|-------------|--|------|-----------|
| 2739        | MS perforated cable tray Bend 600 X 50 X 2 mm      | each | 1845.11   |
| 2740        | MS perforated cable tray Bend 300 X 62.5 X 2 mm    | each | 1111.16   |
| 2741        | MS perforated cable tray Bend 375 X 62.5 X 2 mm    | each | 1310.40   |
| 2742        | MS perforated cable tray Bend 450 X 62.5 X 2 mm    | each | 1511.21   |
| 2743        | MS perforated cable tray Bend 600 X 62.5 X 2 mm    | each | 1906.54   |
| 2744        | MS perforated cable tray Bend 750 X 62.5 X 2 mm    | each | 2264.06   |
| 2745        | MS perforated cable tray Bend 900 X 62.5 X 2 mm    | each | 2703.49   |
| 2746        | MS perforated cable tray Bend 600 X 75 X 2 mm      | each | 1973.48   |
| 2747        | MS perforated cable tray Bend 750 X 75 X 2 mm      | each | 2323.13   |
| 2748        | MS perforated cable tray Bend 900 X 75 X 2 mm      | each | 2768.85   |
| 2749        | MS perforated cable tray Reducer 100 X 50 X 1.6 mm | each | 366.19    |
| 2750        | MS perforated cable tray Reducer 150 X 50 X 1.6 mm | each | 445.73    |
| 2751        | MS perforated cable tray Reducer 225 X 50 X 1.6 mm | each | 589.84    |
| 2752        | MS perforated cable tray Reducer 300 X 50 X 1.6 mm | each | 732.38    |
| 2753        | MS perforated cable tray Reducer 375 X 50 X 2 mm   | each | 931.61    |
| 2754        | MS perforated cable tray Reducer 450 X 50 X 2 mm   | each | 1089.11   |
| 2755        | MS perforated cable tray Reducer 600 X 50 X 2 mm   | each | 1356.08   |
| 2756        | MS perforated cable tray Reducer 300 X 62.5 X 2 mm | each | 834.75    |
| 2757        | MS perforated cable tray Reducer 375 X 62.5 X 2 mm | each | 982.01    |
| 2758        | MS perforated cable tray Reducer 450 X 62.5 X 2 mm | each | 1130.85   |
| 2759        | MS perforated cable tray Reducer 600 X 62.5 X 2 mm | each | 1430.10   |
| 2760        | MS perforated cable tray Reducer 750 X 62.5 X 2 mm | each | 1698.64   |
| 2761        | MS perforated cable tray Reducer 900 X 62.5 X 2 mm | each | 2027.81   |
| 2762        | MS perforated cable tray Reducer 600 X 75 X 2 mm   | each | 1478.93   |
| 2763        | MS perforated cable tray Reducer 750 X 75 X 2 mm   | each | 1741.16   |
| 2764        | MS perforated cable tray Reducer 900 X 75 X 2 mm   | each | 2076.64   |
| 2765        | MS perforated cable tray Tee 100 X 50 X 1.6 mm     | each | 732.38    |
| 2766        | MS perforated cable tray Tee 150 X 50 X 1.6 mm     | each | 901.69    |
| 2767        | MS perforated cable tray Tee 225 X 50 X 1.6 mm     | each | 1181.25   |
| 2768        | MS perforated cable tray Tee 300 X 50 X 1.6 mm     | each | 1466.33   |
| 2769        | MS perforated cable tray Tee 375 X 50 X 2 mm       | each | 1864.80   |
| 2770        | MS perforated cable tray Tee 450 X 50 X 2 mm       | each | 2175.08   |
| 2771        | MS perforated cable tray Tee 600 X 50 X 2 mm       | each | 2764.91   |
| 2772        | MS perforated cable tray Tee 300 X 62.5 X 2 mm     | each | 1665.56   |
| 2773        | MS perforated cable tray Tee 375 X 62.5 X 2 mm     | each | 1964.03   |
| 2774        | MS perforated cable tray Tee 450 X 62.5 X 2 mm     | each | 2268.00   |
| 2775        | MS perforated cable tray Tee 600 X 62.5 X 2 mm     | each | 2858.63   |
| 2776        | MS perforated cable tray Tee 750 X 62.5 X 2 mm     | each | 3391.76   |
| 2777        | MS perforated cable tray Tee 900 X 62.5 X 2 mm     | each | 4054.05   |
| 2778        | MS perforated cable tray Tee 600 X 75 X 2 mm       | each | 2957.85   |

| Code<br>No. | Description   | Unit  | Rate<br>₹ |
|-------------|---|-------|-----------|
| 2779        | MS perforated cable tray Tee 750 X 75 X 2 mm            | each  | 3482.33   |
| 2780        | MS perforated cable tray Tee 900 X 75 X 2 mm            | each  | 4152.49   |
| 2781        | MS perforated cable tray Cross member 100 X 50 X 1.6 mm | each  | 977.29    |
| 2782        | MS perforated cable tray Cross member 150 X 50 X 1.6 mm | each  | 1186.76   |
| 2783        | MS perforated cable tray Cross member 225 X 50 X 1.6 mm | each  | 1575.00   |
| 2784        | MS perforated cable tray Cross member 300 X 50 X 1.6 mm | each  | 1953.79   |
| 2785        | MS perforated cable tray Cross member 375 X 50 X 2 mm   | each  | 2486.14   |
| 2786        | MS perforated cable tray Cross member 450 X 50 X 2 mm   | each  | 2899.58   |
| 2787        | MS perforated cable tray Cross member 600 X 50 X 2 mm   | each  | 3688.65   |
| 2788        | MS perforated cable tray Cross member 300 X 62.5 X 2 mm | each  | 2222.33   |
| 2789        | MS perforated cable tray Cross member 375 X 62.5 X 2 mm | each  | 2619.23   |
| 2790        | MS perforated cable tray Cross member 450 X 62.5 X 2 mm | each  | 3024.00   |
| 2791        | MS perforated cable tray Cross member 600 X 62.5 X 2 mm | each  | 3813.08   |
| 2792        | MS perforated cable tray Cross member 750 X 62.5 X 2 mm | each  | 4525.76   |
| 2793        | MS perforated cable tray Cross member 900 X 62.5 X 2 mm | each  | 5402.25   |
| 2794        | MS perforated cable tray Cross member 600 X 75 X 2 mm   | each  | 3944.54   |
| 2795        | MS perforated cable tray Cross member 750 X 75 X 2 mm   | each  | 4641.53   |
| 2796        | MS perforated cable tray Cross member 900 X 75 X 2 mm   | each  | 5536.13   |
|             | ANGLE/FLAT IRAON AND STEEL SHEET                        |       |           |
| 2801        | MS Suspender 6 mm dia 0.75m long                        | each  | 20.00     |
| 2802        | MS Suspender 8 mm dia 0.75m long                        | each  | 25.00     |
| 2803        | MS Suspender 10 mm dia 0.75m long                       | each  | 35.00     |
| 2804        | 25 mm X 25 mm X 3 mm angle iron                         | kg    | 47.00     |
| 2805        | 35 mm X 35 mm X 4 mm angle iron                         | kg    | 47.00     |
| 2806        | 35 mm X 35 mm X 5 mm angle iron                         | kg    | 47.00     |
| 2807        | 50 mm X 50 mm X 6 mm angle iron                         | kg    | 47.00     |
| 2808        | 65 mm X 65 mm X 6 mm angle iron                         | kg    | 47.00     |
| 2809        | 20/25 mm X 3 mm flat iron                               | kg    | 47.00     |
| 2810        | 25 mm X 4 mm flat iron                                  | kg    | 47.00     |
| 2811        | 25 mm X 6 mm flat iron                                  | kg    | 47.00     |
| 2812        | 40 mm X 3 mm flat iron                                  | kg    | 47.00     |
| 2813        | 50 mm X 6 mm flat iron                                  | kg    | 47.00     |
| 2814        | 50 mm X 8 mm flat iron                                  | kg    | 47.00     |
| 2815        | 100 mm X 50 mm X 6 mm channel iron ( 9.56 kg/ mtr)      | kg    | 47.00     |
| 2816        | 75 mm X 40 mm X 6 mm channel iron ( 7.14 kg/ mtr)       | kg    | 47.00     |
| 2817        | 1.6 mm thick M.S. sheet                                 | kg    | 53.00     |
| 2818        | 3 mm thick M.S. sheet                                   | kg    | 53.00     |
|             | GI AND RCC PIPE   |       |           |
| 2819        | 20 mm dia G.I. Pipe (light class)                       | metre | 94.94     |

| Code<br>No. | Description                                  | Unit    | Rate<br>₹ |
|-------------|--|---------|-----------|
| 2820        | 32 mm dia G.I. Pipe (light class)            | metre   | 165.40    |
| 2821        | 50 mm dia G.I. Pipe (light class)            | metre   | 259.64    |
| 2822        | 80 mm dia G.I. Pipe (light class)            | metre   | 413.03    |
| 2823        | 100 mm dia G.I. Pipe (light class)           | metre   | 589.32    |
| 2824        | 15 mm dia. G.I. pipe (medium class)          | metre   | 82.01     |
| 2825        | 20 mm dia. G.I. pipe (medium class)          | metre   | 103.49    |
| 2826        | 40 mm dia. G.I. pipe (medium class)          | metre   | 225.92    |
| 2827        | 15 mm dia. G.I. pipe (heavy class)           | metre   | 94.02     |
| 2828        | 20 mm dia. G.I. pipe (heavy class)           | metre   | 121.51    |
| 2829        | Check nut 20mm                               | each    | 4.00      |
| 2831        | 32 mm dia. G.I. pipe (medium class)          | metre   | 197.64    |
| 2832        | 50 mm dia. G.I. pipe (medium class)          | metre   | 287.46    |
| 2833        | 80 mm dia. G.I. pipe (medium class)          | metre   | 483.49    |
| 2834        | 100 mm dia. G.I. pipe (medium class)         | metre   | 681.86    |
| 2835        | 150 mm dia. G.I. pipe (medium class)         | metre   | 1087.18   |
| 2836        | 40 mm to 20 mm reducer                       | each    | 36.00     |
| 2837        | Nipple 50 mm dia                             | each    | 36.00     |
| 2838        | 40 mm dia. G.I. bend (medium class)          | each    | 120.00    |
| 2839        | 50 mm dia. G.I. bend (medium class)          | each    | 120.00    |
| 2841        | 100 mm dia RCC pipe NP2 class                | metre   | 135.00    |
| 2842        | 150 mm dia RCC pipe NP2 class                | metre   | 154.00    |
| 2843        | 250 mm dia RCC pipe NP2 class                | metre   | 188.00    |
| 2844        | 300 mm dia RCC pipe NP2 class                | metre   | 261.00    |
| 2845        | 100 mm dia RCC collar NP2 class              | each    | 20.00     |
| 2846        | 150 mm dia RCC collar NP2 class              | each    | 25.00     |
| 2847        | 250 mm dia RCC collar NP2 class              | each    | 40.00     |
| 2848        | 300 mm dia RCC collar NP2 class              | each    | 49.00     |
|             | SCREWS, NUT BOTS AND OTHER ACCE              | SSORIES |           |
| 2851        | Al. Alloy/ cadmium plated iron screws, 20 mm | each    | 0.38      |
| 2852        | Iron screws, 35 mm X 6 mm                    | each    | 0.92      |
| 2853        | Iron screws, 40 mm X 6 mm                    | each    | 0.94      |
| 2854        | Iron screws, 45 mm X 6 mm                    | each    | 1.10      |
| 2855        | Steel fastener 6 mm X 75 mm                  | each    | 5.15      |
| 2856        | Steel fastener 8 mm X 75 mm                  | each    | 6.62      |
| 2857        | PVC fastener 40mm long                       | each    | 0.25      |
| 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    | 3.25      |
| 2861        | 25mm X 3mm bolts & nuts                      | each    | 1.57      |

| Code<br>No. | Description  | Unit | Rate<br>₹ |
|-------------|--|------|-----------|
| 2862        | 32mm X 8mm bolts & nuts                                      | each | 3.75      |
| 2863        | 38mm X 10mm bolts & nuts                                     | each | 6.20      |
| 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  | 6.06      |
| 2868        | 16 mm X 40 mm bolts and nuts with washers                    | set  | 6.06      |
| 2869        | 16 mm X 125 mm bolts and nuts with washers                   | set  | 19.43     |
| 2870        | 16 mm X 150 mm bolts and nuts with washers                   | set  | 22.71     |
| 2871        | 10 mm X 25 mm long tinned brass bolt with nut etc.           | each | 26.25     |
| 2881        | GI saddles 19mm x 0.55mm for conduit                         | each | 0.78      |
| 2882        | GI saddles 25mm x 0.90mm for conduit above 25mm              | each | 1.05      |
| 2901        | 20 mm X 3 mm copper tape ( 0.533 kg/mtr)                     | kg   | 523.70    |
| 2902        | 25 mm X 5 mm copper tape (1.15 kg/mtr)                       | kg   | 523.70    |
| 2903        | 32 mm X 6 mm copper tape ( 1.705 kg/mtr)                     | kg   | 523.70    |
| 2904        | 8 SWG copper wire (4.0 mm dia)                               | kg   | 517.65    |
| 2905        | 600 mm X 600 mm X 3 mm thick copper plate (10.5 kg)          | each | 5181.75   |
| 2906        | Copper saddle  | each | 27.56     |
| 2907        | 50 mm X 5mm copper strip (2.30 kg/mtr)                       | kg   | 523.70    |
| 2908        | Brass nipple   | each | 6.00      |
| 2909        | Lightning finial, 25 mm dia X 300 mm long, copper            | each | 515.70    |
| 2910        | Lightning finial, 25 mm dia X 300 mm long, G.I.              | each | 180.40    |
| 2911        | 20 mm X 3 mm G.I. Tape ( 0.461 kg/mtr)                       | kg   | 55.65     |
| 2912        | 25 mm X 5 mm G.I. strip (1.0 kg/mtr)                         | kg   | 58.43     |
| 2913        | 25 mm X 6 mm G.I. strip (1.2 kg/mtr)                         | kg   | 58.43     |
| 2914        | 32 mm X 6 mm G.I. Tape ( 1.475 kg/mtr)                       | kg   | 58.43     |
| 2915        | 600 mm X 600 mm X 6 mm thick G.I. plate                      | each | 1245.00   |
| 2916        | 6 SWG G.I. wire  | kg   | 56.00     |
| 2917        | GI saddle 20mm x 3mm   | each | 2.050     |
| 2918        | Funnel   | each | 16.50     |
| 2919        | G.I. nuts and through bolts with washer                      | each | 21.00     |
| 2920        | Washers  | each | 0.16      |
| 2921        | G.I. Hooks made of 8 SWG GI wire/ GI clip                    | each | 2.15      |
| 2922        | CI/MS cover plate hinged to FRLSame with Locking arrangement | each | 248.05    |
| 2923        | Pulley of 50 mm dia  | each | 68.35     |
| 2924        | Clamps, bolts, nuts etc.                                     | set  | 90.40     |
| 2925        | Flat iron clamps (50 mm X 6 mm) for G.I. pipe                | each | 27.55     |
| 2926        | G.I. plate (10 cm X 10 cm X 5 mm)                            | kg   | 65.00     |
| 2927        | Ball and socket  | each | 13.50     |
| 2928        | Back plate   | each | 5.25      |

| Code<br>No. | Description   | Unit    | Rate<br>₹ |
|-------------|---|---------|-----------|
| 2929        | Check nut 20mm  | each    | 2.70      |
| 2931        | PVC sleeve  | metre   | 3.80      |
| 2932        | 250 mm X 200 mm H.T. danger notice plate                      | each    | 49.5      |
| 2933        | 200 mm X 150 mm M.V. danger notice plate                      | each    | 38.55     |
| 2934        | Earthing thimbles and solder                                  | L.S.    | 10.75     |
| 2935        | Cement, paint, sand etc.                                      | L.S.    | 4.50      |
| 2936        | Painting with primer and finish paint                         | L.S.    | 3.50      |
| 2937        | Diesel  | letre   | 50.25     |
| 2938        | Cotton waste, cleaning cloth etc.                             | kg      | 36.00     |
| 2939        | Cleaning materials like soap/ detergent                       | kg      | 41.00     |
| 2940        | Tin solder etc.   | L.S.    | 21.00     |
| 2941        | Charcoal  | kg      | 9.00      |
| 2942        | Coke  | kg      | 7.50      |
| 2943        | Salt  | kg      | 8.00      |
| 2944        | Paint   | letre   | 151.00    |
| 2945        | Common burnt clay F.P.S. (non modular) bricks                 |         |           |
|             | class designation 7.5   | each    | 2.90      |
| 2946        | Fine sand   | cum     | 640.00    |
| 2947        | Bricks ballast  | cum     | 500.00    |
| 2948        | Cement  | tonne   | 5000.00   |
| 2949        | Stone aggregate (single size) 40mm nominal size               | cum     | 950.00    |
| 2950        | Stone aggregate (single size) 20mm nominal size               | cum     | 1050.00   |
| 2951        | Stone aggregate (single size) 10mm nominal size               | cum     | 1050.00   |
| 2952        | Coarse sand (Zone III)  | cum     | 1120.00   |
| 9999        | Sundries/bending charges                                      | L.S.    | 1.00      |
|             | HVAC Items  |         |           |
| 3001        | M.S. Pipe - 400 mm dia. (Heavy Class, 7 mm thick MS Sheet)    | Per Mtr | 4736.00   |
| 3002        | M.S. Pipe - 350 mm dia. (Heavy Class, 6.35 mm thick MS Sheet) | Per Mtr | 2776.00   |
| 3003        | M.S. Pipe- 300 mm dia. (Heavy Class, 6.35 mm thick MS Sheet)  | Per Mtr | 2511.00   |
| 3004        | M.S. Pipe - 250mm dia. (Heavy Class, 6.35 mm thick MS Sheet)  | Per Mtr | 2092.00   |
| 3005        | M.S. Pipe - 200mm dia. (Heavy Class, 6.35 mm thick MS Sheet)  | Per Mtr | 1668.00   |
| 3006        | M.S. Pipe - 150mm dia. (C-Class)                              | Per Mtr | 1069.00   |
| 3007        | M.S. Pipe - 125mm dia. (C-Class)                              | Per Mtr | 900.00    |
| 3008        | M.S. Pipe - 100mm dia. (C-Class)                              | Per Mtr | 730.00    |
| 3009        | M.S. Pipe - 80mm dia. (C-Class)                               | Per Mtr | 495.00    |
| 3010        | M.S. Pipe -65mm dia. (C-Class)                                | Per Mtr | 407.00    |
| 3011        | M.S. Pipe -50 mm dia. (C-Class)                               | Per Mtr | 311.00    |
| 3012        | M.S. Pipe - 40 mm dia. (C-Class)                              | Per Mtr | 220.00    |
| 3013        | M.S. Pipe - 32 mm dia (C-Class)                               | Per Mtr | 189.00    |
| 3014        | M.S. Pipe - 25 mm dia (C-Class)                               | Per Mtr | 147.00    |

| Code<br>No. | Description  | Unit | Rate<br>₹ |
|-------------|--|------|-----------|
| 3015        | Resin bonded fiber glass pipe section insulation having density  |      |           |
|             | 80 kg/cum - 65 mm thickness  | Sqm  | 1099.00   |
| 3016        | Resin bonded fiber glass pipe section insulation having density  |      |           |
|             | 80 kg/cum - 50 mm thickness  | Sqm  | 813.00    |
| 3017        | Resin bonded fiber glass pipe section insulation having density  |      |           |
|             | 80 kg/cum - 40 mm thickness  | Sqm  | 634.00    |
| 3018        | Resin bonded fiber glass pipe section insulation having density  |      |           |
|             | 80 kg/cum - 25 mm thickness  | Sqm  | 380.00    |
| 8019        | Nitrile rubber( cross link closed cell preformed sections of   |      |           |
|             | polyethylene) insulation -32 mmthick   | Sqm  | 818.00    |
| 8020        | Nitrile rubber( cross link closed cell preformed   |      |           |
|             | sections of polyethylene) insulation -19 mmthick   | Sqm  | 453.00    |
| 3021        | Expanded polystrene moulded pipe section of density 20 kg/cu.m insulation-75 mm thickness  | Sqm  | 718.00    |
| 3022        | Expanded polystrene moulded pipe section of density 20 kg/cu.m   |      |           |
|             | insulation-50 mm thickness   | Sqm  | 449.00    |
| 3023        | Pipe aluminium Cladding 0.63mm   | Sqm  | 300.00    |
|             | BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/ hot water circulation as specified  |      |           |
| 8024        | 200 mm dia   | Each | 8330.00   |
| 8025        | 150mm dia.   | Each | 4117.00   |
| 026         | 125mm dia.   | Each | 3736.00   |
| 3027        | 100mm dia.   | Each | 2991.00   |
| 028         | 80mm dia.  | Each | 2418.00   |
| 029         | 65mm dia.  | Each | 2127.00   |
| 030         | 50mm dia.  | Each | 1854.00   |
| 031         | 40mm dia.  | Each | 1808.00   |
|             | BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified. |      |           |
| 3032        | 200 mm dia   | Each | 41723.00  |
| 8033        | 150mm dia.   | Each | 22361.00  |
| 034         | 125mm dia.   | Each | 15180.00  |
| 035         | 100mm dia.   | Each | 10871.00  |
| 036         | 80mm dia.  | Each | 5881.00   |
| 037         | 65 mm dia  | Each | 4786.00   |
| 8038        | 50mm dia.  | Each | 3690.00   |
| 8039        | 40 mm dia  | Each | 2236.00   |

| Code<br>No. | Description   | Unit  | Rate<br>₹ |
|-------------|---|-------|-----------|
|             | NON - RETURN VALVE with duel plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as specified. |       |           |
| 3040        | 200 mm dia  | Each  | 6244.00   |
| 3041        | 150mm dia.  | Each  | 5208.00   |
| 3042        | 125mm dia.  | Each  | 3854.00   |
| 3043        | 100 mm dia  | Each  | 2899.00   |
| 3044        | 80mm dia.   | Each  | 2045.00   |
| 3045        | 65 mm dia   | Each  | 1608.00   |
|             | Y - STRAINER of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified.                                       |       |           |
| 3046        | 200mm dia   | Each  | 14725.00  |
| 3047        | 150mm dia.  | Each  | 11876.00  |
| 3048        | 125mm dia.  | Each  | 7590.00   |
| 3049        | 100 mm dia  | Each  | 6045.00   |
| 3050        | 80 mm dia   | Each  | 4681.00   |
| 3051        | 65mm dia.   | Each  | 3817.00   |
| 3052        | 50mm dia.   | Each  | 3263.00   |
| 3053        | 40mm dia.   | Each  | 2931.00   |
| 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 | 376.00    |
| 3057        | Thickness 0.80 mm sheet   | sqmtr | 457.00    |
| 3058        | Thickness 1.00 mm sheet   | sqmtr | 548.00    |
| 3059        | Thickness 1.25 mm sheet   | sqmtr | 645.00    |
|             | At site Fabricated GSS sheet metal rectangular/round ducting of following sheet thickness   |       |           |
| 3060        | Thickness 0.63 mm sheet   | sqmtr | 310.00    |
| 3061        | Thickness 0.80 mm sheet   | sqmtr | 378.00    |
| 3062        | Thickness 1.00 mm sheet   | sqmtr | 488.00    |
| 3063        | Thickness 1.25 mm sheet   | sqmtr | 610.00    |
| 3064        | GI volume control duct damper   | sqmtr | 3697.00   |
|             | Motorized (ON-OFF Type) duct mounted GI volume control damper with enthalpy sensor and necessary control wire (minimum 1.5 sqmm) for integration within AHU room                        |       |           |
| 3065        | Actuator  | sqmtr | 3589.00   |

| Code<br>No. | Description  | Unit  | Rate<br>₹ |
|-------------|--|-------|-----------|
| 3066        | powder coated extruded aluminium Supply Air Grills with  |       |           |
|             | aluminium volume control dampers   | sqmtr | 5258.00   |
| 3067        | powder coated extruded aluminium Return Air Grills with  |       |           |
|             | louvers but without volume control dampers   | sqmtr | 3033.00   |
| 3068        | supply air diffusers of powder coated aluminium with aluminium   |       |           |
|             | volume control dampers with anti smudge ring & removable core.   | sqmtr | 7079.00   |
| 3069        | Return air diffusers of powder coated aluminium without  |       |           |
|             | volume control dampers with anti smudge ring & removable core.   | sqmtr | 4652.00   |
| 3070        | Thermal insulated flexible duct- 200 mm dia  | sqmtr | 274.00    |
|             | Fire dampers in supply air duct/main branch and return air path with inbuilt mechanism of spring return action   |       |           |
| 3071        | Fire damper  | sqmtr | 5584.00   |
| 3072        | Actuator   | sqmtr | 5212.00   |
| 3073        | 25 mm thick, density 32 kg / cu.m resin bonded fiber glass wool insulation   | sqmtr | 119.00    |
| 3074        | 50mm thick, density 32 kg/cu.m resin bonded fiber glass insulation   | sqmtr | 253.00    |
| 3075        | Duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class "O") insulation for use on existing duct  | ·     |           |
| 3076        | 19mmthickness  | Mtr   | 551.00    |
| 3077        | 25mmthickness  | Mtr   | 731.00    |
|             | AIR HANDLING UNITS   |       |           |
|             | Factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators, cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 6 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor 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. |       |           |
| 3078        | 2500CFM  | Set   | 52024.00  |
| 3079        | 3000CFM  | Set   | 59748.00  |
| 3080        | 4000CFM  | Set   | 73522.00  |
| 3081        | 5000CFM  | Set   | 88971.00  |
| 3082        | 6000CFM  | Set   | 102000.00 |

| Code<br>No. | Description  | Unit | Rate<br>₹ |
|-------------|--|------|-----------|
| 3083        | 7000CFM  | Set  | 111306.00 |
| 3084        | 8000CFM  | Set  | 119496.00 |
| 3085        | 9000CFM  | Set  | 148347.00 |
| 3086        | 10000CFM   | Set  | 154768.00 |
| 3087        | 11000CFM   | Set  | 165657.00 |
| 8088        | 12000CFM   | Set  | 207257.00 |
|             | Factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators, cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 4 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor 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. |      |           |
| 3089        | 2500CFM  | Set  | 49562.00  |
| 3090        | 3000CFM  | Set  | 52208.00  |
| 3091        | 4000CFM  | Set  | 61753.00  |
| 3092        | 5000CFM  | Set  | 75233.00  |
| 3093        | 6000CFM  | Set  | 77408.00  |
| 3094        | 7000CFM  | Set  | 100912.00 |
| 095         | 8000CFM  | Set  | 106186.00 |
| 8096        | 9000CFM  | Set  | 128406.00 |
| 097         | 10000CFM   | Set  | 141956.00 |
| 3098        | 11000CFM   | Set  | 153248.00 |
| 3099        | 12000CFM   | Set  | 165347.00 |
|             |  |      |           |

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# NOTE

# Central Public Works Department (CPWD) In the service of the nation since 158 Years.

Under the Ministry of Urban Development, Government of India, CPWD provides single window services for all facets of the government built environment in India and abroad.

With its huge resource of skilled and competent engineers, architects and horticulturists, CPWD's strength is its country wide presence, with proven ability to undertake a whole range of complex constructions under difficult terrains. The department has the capacity to undertake a range of work varying from the smallest works in the remotest of places to mega projects in metro cities. These works include the construction and maintenance of government structures such as residential complexes, offices, schools, laboratories, hospitals, sport facilities, stadia, gymnasia, auditoria, storages, highways, flyovers, tunnels, bridges, jetties, airports, runways and border road & fencing, high altitude roads, Intra-campus facilities such as water and electric supply, sewerage and treatment plants are also provided.

CPWD also discharges other functions such as the custody of estates, valuation, rent assessment, technical advice to government, consultancy services, standardization and benchmarking, State Ceremonies (Republic Day , Samadhis, etc.), processing of DPRs for development of urban infrastructure under JNNURM, North –Eastern region and works of other Ministries for centrally funded works. CPWD also assists in organizing public and ceremonial functions, and upkeep of historical and important monuments.

#### Delhi Schedules of Rates (E&M) 2013

Standardization of rates of some of the items pertaining to Air conditioning works has been attempted here. Thus DSR (E&M) 2013 incorporates schedule of rates for internal & external electrical works and rates for chilled water pipes, ducting, insulation, valves etc. pertaining to low side of Air Conditioning works as well as for four and six row deep Air Handling Units. One of the special features of this DSR is inclusion of Fire retardant low smoke wires in the items of wiring, in view of fire safety of any built environment. DSR (E&M) 2013 also includes rates for occupancy sensors and time switches under the chapter Lighting Control and so reaffirms the CPWD's commitment towards construction of sustainable habitat.



CENTRAL PUBLIC WORKS DEPARTMENT
Ministry of Urban Development,
Government of India
www.cpwd.gov.in