



ANDHRA PRADESH CENTRAL POWER DISTRIBUTION CORPORATION LIMITED

Dr. Y.S.R Vidyut Soudha,

Corporate office, Besides Govt Polytechnic college, ITI Road, Vijayawada -520 008

సదా పీసేవలో...

From

The Chairman and Managing Director,
APCPDCL, Corporate office,
Besides Govt Polytechnic college,
ITI Road, Vijayawada

To

1) The Chairman and Managing
Director, APEPDCL,
Visakhapatnam.

2) The Chairman and Managing
Director, APSPDCL,
Tirupati

Lr No CMD/APCPDCL/VJA/SAP /D No 494 /21, Dt:-1 -8- 2021.

Sir,

Sub:-APCPDCL –Common Standard Scheduled rates of three Discoms APEPDCL,
APCPDCL and APSPDCL for labour for the year 2021-22 – Communicated -
Reg.

Ref:-1) TOO No ED(Construction)/Ms No 1388, Dt:- 17-2-2020.

2) Proc No APCPDCL/CMD/VJA/D No 434/21, Dt:- 3-7-2021

3) CMDs meeting held on 29-7-2021 at Vijayawada

- 1) In the reference 2nd cited, a committee was formed with the following members of APEPDCL, APCPDCL and APSPDCL to revise the reference 1st cited common SSR for the year 2019-20 duly taking into account Covid-19 pandemic situation.
 - i) The Chief General Manager, Projects, APCPDCL, Member
 - ii) The Chief General Manager, CGM, Proj&Opn, APSPDCL, Member
 - iii) The Chief General Manager, Projects, APEPDCL, Member
 - iv) The Executive Engineer, Construction, APCPDCL, Member
 - v) The Executive Engineer, Civil, APSPDCL, Member
 - vi) Superintending Engineer, Operation, Vizag, APEPDCL, Member
 - vii) The General Manager, IT, APCDCL, Convener
- 2) The above committee submitted its draft copy of Standard Schedule Rates of labour for the year 2021-22 for APEPDCL, APCPDCL and APSPDCL.

- 3) The Chairman and Managing Directors of APEPDCL, APCPDCL and APSPDCL in the meeting held on 29-7-2021, have approved the draft copy of SSR submitted by the committee at 5% less than the proposed rates.
- 4) The finalised copy of SSR for the year 2021-22 is communicated herewith for adoption in preparation of estimates. Also approved to allow area allowances and Contractor Overhead charges & Profits (COP) as per the conditions mentioned in the SSR with effect from 1-8-2021.
- 5) The common Standard Scheduled Rates for labour rates for 2021-22 will be effective from 1-8-2021 to 31-7-2022.
- 6) The SSR may be uploaded in all the Discom websites for download by field officers for preparation of estimates.

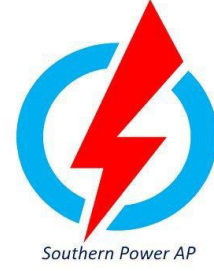
Encl:- Final copy of SSR for the year 2021-22

Yours faithfully,



**Chairman and Managing Director,
APCPDCL**

Copy to the Director, Technical, APCPDCL for information.
Copy to the Director, Finance, APCPDCL for information.



Andhra Pradesh Eastern Power Distribution Company Limited

Andhra Pradesh Central Power Distribution Corporation Limited

Andhra Pradesh Southern Power Distribution Company Limited

**Common SSR for APEPDCL, APCPDCL and
APSPDCL for the year 2021-22 (Effective from
1-8-2021 until 31-7-2022)**

**Prepared by SSR and Cost data committee consisting members of APEPDCL,
APCPDCL and APSPDCL**

| Sl No | Index | Page No |
|--------------|---|----------------|
| 1 | Loading and Unloading Charges | 4 |
| 2 | Survey of HT/LT lines | 8 |
| 3 | Jungle clearance | 8 |
| 4 | Excavation of pole pits | 9 |
| 5 | Transport of Poles from road side to pit location including loading and unloading (Rates for 1Km, 2Km, 3Km, 4Km and 5 KM) | 10 |
| 6 | Erection of PSCC/Spun/Rail/RS Joist Poles | 12 |
| 7 | Rectification of Leaned poles | 13 |
| 8 | Dismantling works | 13 |
| 9 | Erection of stay sets | 13 |
| 10 | Erection of Cross arms | 14 |
| 11 | Fixing of insulators | 14 |
| 12 | Erection of Double Pole structure | 14 |
| 13 | Erection of Strut | 15 |
| 14 | Paving, Stringing and Jumpering of Conductor | 15 |
| 15 | Paving , Stringing and Jumpering of Cable | 15 |
| 16 | Restranging of loose spans | 16 |
| 17 | Concreting of pole pits, stay pits and construction of DTR plinths | 16 |
| 18 | Erection or Dismantlement of DTRs | 17 |
| 19 | Erection of earth electrodes | 18 |
| 20 | Wiring of 3 Phase DTR | 18 |
| 21 | Earthing of DTRs | 18 |
| 22 | Security fencing to DTRs | 19 |
| 23 | Erection of HG Fuse sets | 19 |
| 24 | Extra percentage towards work involving (a) Single Pole (b) Two Pole (c) Three Poles | 19 |
| 25 | Erection of VCBs with CTs and CR Panels | 20 |
| 26 | Erection of AB switches | 20 |
| 27 | Painting of structures | 20 |
| 28 | Laying of 33KV/11 KV UG cable duly forming the cable trench | 21 |
| 29 | Erection of Cable Heat Shrunken joints | 21 |
| 30 | 11 KV AB cable end termination consisting of 3 phases. | 21 |
| 31 | Labour charges for erection of 33 or 11 KV C.Ts | 21 |
| 32 | Erection of HT metering cubicle | 21 |
| 33 | Erection of HT Trivector meter box | 22 |
| 34 | Fixing of tube light fitting for street light | 22 |
| 35 | Fixing of MV/SV lamp fitting for street light | 22 |
| 36 | Laying of earth mat | 22 |
| 37 | M & P Division Items | 22 |
| 38 | Transformer division/ SPM works | 25 |
| 39 | CUTTING CHARGES | 26 |

| | | |
|-----------|--|----|
| 40 | DRILLING CHARGES | 27 |
| 41 | FABRICATION CHARGES | 27 |
| 42 | WELDING CHARGES | 30 |
| 43 | GAS CUTTING | 31 |
| 44 | Erection / fixing of heavy steel structures, like M+3, M+6, M+9 and M+12 towers | 31 |
| 45 | Providing of trenchless digging with HDD (Horizontal Directional Drilling) method for laying & installation of HT or LT lines using XLPE UG Cables | 31 |
| 46 | Transport/ Conveyance/ Lead charges | 31 |
| 47 | New Items added to the SSR 2021-22 | 39 |
| 48 | Area Allowances (% extra over basic labour rates) | 59 |
| 49 | GST on labour and materials and Contractor profit and over head charges | 61 |

| 1 | Loading and Unloading charges | | | | | | |
|--------------|--|-------------|--------------------------|-----------------|----------------|-----------------|-------------------|
| SL NO | Description of material | Unit | Unit weight in Kg | SAP Code | Loading | SAP Code | Un-Loading |
| 1.1 | PSCC Poles | | | | | | |
| 1.1.1 | 8m/140 KG PSCC Pole | EA | 355 | CLD00001 | 122.00 | CUD00001 | 61.00 |
| 1.1.2 | 8m/200 KG PSCC Pole | EA | 380 | CLD00002 | 128.00 | CUD00002 | 64.00 |
| 1.1.3 | 8m/300 KG PSCC Pole | EA | 505 | CLD00003 | 170.00 | CUD00003 | 86.00 |
| 1.1.4 | 9.1m/280 KG PSCC Pole | EA | 680 | CLD00004 | 238.00 | CUD00004 | 119.00 |
| 1.1.5 | 11m/365 KG PSCC Pole | EA | 1127 | CLD00005 | 470.00 | CUD00005 | 236.00 |
| | | | | | | | |
| 1.2 | Spun poles | | | | | | |
| 1.2.1 | 9.5m/300 KG Spun pole | EA | 620 | CLD00006 | 327.00 | CUD00006 | 228.00 |
| 1.2.2 | 11m/350KG Spun pole | EA | 900 | CLD00007 | 452.00 | CUD00007 | 297.00 |
| 1.2.3 | 12.5m/350 KG Spun pole | EA | 1200 | CLD00008 | 580.00 | CUD00008 | 405.00 |
| | | | | | | | |
| 1.3 | RS Joists | | | | | | |
| 1.3.1 | 9m - 150x75 RS Joist pole | EA | 140 | CLD00009 | 85.00 | CUD00009 | 63.00 |
| 1.3.2 | 9m- 175 x85 RS Joist Pole | EA | 215 | CLD00010 | 85.00 | CUD00010 | 63.00 |
| 1.3.3 | 9m - 150x150 RS Joist Pole (34.6Kg/m) | EA | 311.4 | CLD00011 | 122.00 | CUD00011 | 61.00 |
| 1.3.4 | 11m- 175 x85 RS Joist Pole (19.3Kg/m) | EA | 212.3 | CLD00012 | 82.00 | CUD00012 | 54.00 |
| 1.3.5 | 11m - 150x150 RS Joist Pole (34.6Kg/m) | EA | 380.6 | CLD00013 | 135.00 | CUD00013 | 67.00 |
| | | | | | | | |
| 1.4 | Rail poles | | | | | | |
| 1.4.1 | 8.23m - 60lbs/27.3 Kg Rail pole | EA | 225 | CLD00014 | 82.00 | CUD00014 | 54.00 |
| 1.4.2 | 9.14m - 75lbs/34.1 Kg Rail pole | EA | 312 | CLD00015 | 95.00 | CUD00015 | 61.00 |
| 1.4.3 | 9.14m - 90lbs/40.9Kg Rail pole | EA | 374 | CLD00016 | 115.00 | CUD00016 | 67.00 |
| 1.4.4 | 9.14m - 105lbs/47.7Kg Rail pole | EA | 436 | CLD00017 | 130.00 | CUD00017 | 75.00 |
| | | | | | | | |
| 1.5 | Distribution Transformers | | | | | | |
| 1.5.1 | 1Ph 5 KVA DTR | EA | 75 | CLD00018 | 41.00 | CUD00018 | 41.00 |
| 1.5.2 | 1Ph 10KVA DTR | EA | 115 | CLD00019 | 67.00 | CUD00019 | 67.00 |
| 1.5.3 | 1Ph 15/16KVA DTR | EA | 190 | CLD00020 | 102.00 | CUD00020 | 102.00 |
| 1.5.4 | 1Ph 25KVA DTR | EA | 245 | CLD00021 | 169.00 | CUD00021 | 169.00 |
| 1.5.5 | 3Ph 15/16KVA DTR | EA | 280 | CLD00022 | 167.00 | CUD00022 | 167.00 |

| | | | | | | | |
|---------------|----------------------------------|-----|-------|----------|-----------------|----------|-----------------|
| 1.5.6 | 3Ph 25KVA DTR | EA | 350 | CLD00023 | 191.00 | CUD00023 | 191.00 |
| 1.5.7 | 3Ph 40 KVA DTR | EA | 455 | CLD00024 | 202.00 | CUD00024 | 202.00 |
| 1.5.8 | 3Ph 50 KVA DTR | EA | 510 | CLD00025 | 202.00 | CUD00025 | 202.00 |
| 1.5.9 | 3Ph 63 KVA DTR | EA | 690 | CLD00026 | 304.00 | CUD00026 | 304.00 |
| 1.5.10 | 3Ph 75 KVA DTR | EA | 730 | CLD00027 | 366.00 | CUD00027 | 366.00 |
| 1.5.11 | 3Ph 100 KVA DTR | EA | 730 | CLD00028 | 366.00 | CUD00028 | 366.00 |
| 1.5.12 | Amorphous make 100KVA DTRs | EA | 900 | CLD00029 | 366.00 | CUD00029 | 366.00 |
| 1.5.13 | 3Ph 160KVA DTR | EA | 1200 | CLD00030 | 452.00 | CUD00030 | 452.00 |
| 1.5.14 | 3Ph 250 KVA DTR | EA | 1700 | CLD00031 | 640.00 | CUD00031 | 640.00 |
| 1.5.15 | 3Ph 315 KVA DTR | EA | 2340 | CLD00032 | 880.00 | CUD00032 | 880.00 |
| 1.5.16 | 3Ph 500 KVA DTR | EA | 2750 | CLD00033 | 1034.00 | CUD00033 | 1034.00 |
| | | | | | | | |
| 1.6 | Power Transformers | | | | | | |
| 1.6.1 | 3.15 MVA PTR | EA | 10350 | CLD00034 | 6464.00 | CUD00034 | 6464.00 |
| 1.6.2 | 5.0 MVA PTR | EA | 16000 | CLD00035 | 8634.00 | CUD00035 | 8634.00 |
| 1.6.3 | 8.0 MVA PTR | EA | 18500 | CLD00036 | 10792.00 | CUD00036 | 10792.00 |
| 1.6.4 | 10.0 MVA PTR | EA | 22500 | CLD00037 | 13085.00 | CUD00037 | 13085.00 |
| 1.6.5 | 12.5 MVA PTR | EA | 25000 | CLD00038 | 14540.00 | CUD00038 | 14540.00 |
| | | | | | | | |
| 1.7 | Isolators | | | | | | |
| 1.7.1 | 33 KV AB switch | EA | 224 | CLD00039 | 112.00 | CUD00039 | 112.00 |
| 1.7.2 | 11 KV AB switch | EA | 70 | CLD00040 | 43.00 | CUD00040 | 43.00 |
| 1.7.3 | 11 KV H.G. Fuse set | EA | 30 | CLD00041 | 17.00 | CUD00041 | 17.00 |
| 1.7.4 | L.T. H.G. Fuse set | EA | 25 | CLD00042 | 14.00 | CUD00042 | 14.00 |
| | | | | | | | |
| 1.8 | EQUIPMENT | | | | | | |
| 1.8.1 | 33 KV VCB alone | SET | 910 | CLD00043 | 1216.00 | CUD00043 | 1216.00 |
| 1.8.2 | 11 KV VCB alone | SET | 730 | CLD00044 | 1045.00 | CUD00044 | 1045.00 |
| 1.8.3 | 33KV or 11 KV control panels | EA | 225 | CLD00045 | 242.00 | CUD00045 | 242.00 |
| 1.8.4 | 33KV HV/LV twin feeder panel | EA | 600 | CLD00046 | 484.00 | CUD00046 | 484.00 |
| 1.8.5 | 11 KV Metering cubicle | SET | 170 | CLD00047 | 202.00 | CUD00047 | 202.00 |
| 1.8.6 | 33KV PT or CT | EA | 110 | CLD00048 | 176.00 | CUD00048 | 176.00 |
| 1.8.7 | 11KV PT or CT | EA | 65 | CLD00049 | 95.00 | CUD00049 | 95.00 |
| 1.8.8 | Batteries | EA | 27 | CLD00050 | 21.00 | CUD00050 | 21.00 |
| 1.8.9 | Charger with batteries | EA | 45 | CLD00051 | 36.00 | CUD00051 | 36.00 |
| | | | | | | | |
| 1.9 | Iron Materials | | | | | | |
| 1.9.1 | Iron and steel materials | TON | 1000 | CLD00052 | 337.00 | CUD00052 | 337.00 |
| 1.9.2 | HT, Mild steel wire | TON | 1000 | CLD00053 | 337.00 | CUD00053 | 337.00 |
| 1.9.3 | Stay wire, GI wire | TON | 1000 | CLD00054 | 337.00 | CUD00054 | 337.00 |
| 1.9.4 | D.P. structural materials | SET | 480 | CLD00055 | 135.00 | CUD00055 | 135.00 |
| 1.9.5 | 40 KVA DTR mounting arrangements | EA | 45 | CLD00056 | 28.00 | CUD00056 | 28.00 |

| | | | | | | | |
|---------------|---|-----|------|----------|--------------|----------|--------------|
| 1.9.6 | Seating arrangements of 3ph16/25KVA DTRs | EA | 40 | CLD00057 | 28.00 | CUD00057 | 28.00 |
| 1.9.7 | 33 KV ' V ' cross arms | EA | 22.5 | CLD00058 | 8.00 | CUD00058 | 8.00 |
| 1.9.8 | 11 KV ' V ' cross arms | EA | 11 | CLD00059 | 6.00 | CUD00059 | 6.00 |
| 1.9.9 | Three phase cross arms | EA | 8.8 | CLD00060 | 5.00 | CUD00060 | 5.00 |
| 1.9.10 | Single phase cross arms | EA | 5.5 | CLD00061 | 3.00 | CUD00061 | 3.00 |
| 1.9.11 | 33 KV Top Fittings | EA | 7 | CLD00062 | 3.00 | CUD00062 | 3.00 |
| 1.9.12 | 11 KV Top Fittings | EA | 4.4 | CLD00063 | 3.00 | CUD00063 | 3.00 |
| 1.9.13 | L.T Top Fittings | EA | 3.5 | CLD00064 | 2.00 | CUD00064 | 2.00 |
| 1.9.14 | Back clamps | EA | 1.2 | CLD00065 | 1.00 | CUD00065 | 1.00 |
| 1.9.15 | Stay clamps set | SET | 1.5 | CLD00066 | 1.00 | CUD00066 | 1.00 |
| 1.9.16 | Stay set | SET | 7.8 | CLD00067 | 5.00 | CUD00067 | 5.00 |
| 1.9.17 | G.I. Earth pipes | EA | 6.4 | CLD00068 | 5.00 | CUD00068 | 5.00 |
| 1.9.18 | C.I. Earth pipes | EA | 35 | CLD00069 | 14.00 | CUD00069 | 14.00 |
| 1.9.19 | 'A' Type Distribution Box | EA | 55 | CLD00070 | 20.00 | CUD00070 | 20.00 |
| 1.9.20 | 'B' type distribution box | SET | 20 | CLD00071 | 8.00 | CUD00071 | 8.00 |
| 1.9.21 | M.S/GI Bolts & Nuts | KG | 1 | CLD00072 | 1.00 | CUD00072 | 1.00 |
| | | | | | | | |
| | INSULATORS & PINS | | | | | | |
| 1.10 | 33KV - Insulators & Pins | | | | | | |
| 1.10.1 | 33 KV Post type Insulators-2 piece type | EA | 6.2 | CLD00073 | 8.00 | CUD00073 | 8.00 |
| 1.10.2 | 33 KV Post type Insulators-Single piece solid core type | EA | 10 | CLD00074 | 9.00 | CUD00074 | 9.00 |
| 1.10.3 | 33 KV Pin Insulators | EA | 2.7 | CLD00075 | 3.00 | CUD00075 | 3.00 |
| 1.10.4 | 33 KV G.I. Pins | EA | 2.3 | CLD00076 | 2.00 | CUD00076 | 2.00 |
| 1.10.5 | 33 KV Polymer disc | EA | 1.25 | CLD00077 | 3.00 | CUD00077 | 3.00 |
| 1.10.6 | 33 KV LAS | EA | 19.6 | CLD00078 | 34.00 | CUD00078 | 34.00 |
| 1.11 | 11KV - Insulators & Pins | | | | | | |
| 1.11.1 | 11 KV Post type Insulators | EA | 5.6 | CLD00079 | 5.00 | CUD00079 | 5.00 |
| 1.11.2 | 11 KV Pin Insulators | EA | 1.1 | CLD00080 | 2.00 | CUD00080 | 2.00 |
| 1.11.3 | 11 KV GI Pins | EA | 0.9 | CLD00081 | 2.00 | CUD00081 | 2.00 |
| 1.11.4 | 11 KV Disc Insulators | EA | 1.4 | CLD00082 | 2.00 | CUD00082 | 2.00 |
| 1.11.5 | 11 KV Polymer disc | EA | 0.7 | CLD00083 | 2.00 | CUD00083 | 2.00 |
| 1.11.6 | 11 KV/33KV Metal parts | SET | 1.95 | CLD00084 | 2.00 | CUD00084 | 2.00 |
| 1.11.7 | H.T. Guy Insulators | EA | 1.15 | CLD00085 | 2.00 | CUD00085 | 2.00 |
| 1.12 | 11 KV LAS | | | | | | |
| 1.12.1 | 11 KV LAS(Station Type) | EA | 9.6 | CLD00086 | 17.00 | CUD00086 | 17.00 |
| 1.12.2 | 11 KV LAS(Line Type) | EA | 6.6 | CLD00087 | 8.00 | CUD00087 | 8.00 |
| 1.13 | LT- Insulators & Pins | | | | | | |
| 1.13.1 | L.T. Pin Insulators | EA | 0.5 | CLD00088 | 1.00 | CUD00088 | 1.00 |
| 1.13.2 | L.T.G.I. Pins | SET | 0.5 | CLD00089 | 1.00 | CUD00089 | 1.00 |
| 1.13.3 | L.T. Shackles | EA | 0.5 | CLD00090 | 1.00 | CUD00090 | 1.00 |
| 1.13.4 | L.T. metal parts | SET | 0.5 | CLD00091 | 1.00 | CUD00091 | 1.00 |
| 1.13.5 | L.T. Guy Insulators | EA | 0.5 | CLD00092 | 1.00 | CUD00092 | 1.00 |

| | | | | | | | |
|----------------|---|--------------|------|----------|---------------|----------|---------------|
| 1.14 | CONDUCTOR/ CABLE | | | | | | |
| 1.14.1 | Conductor Drum(All) | EA | 900 | CLD00093 | 314.00 | CUD00093 | 314.00 |
| 1.14.2 | PVC Cable(>25 up to 185sq.mm) Drum | EA | 1000 | CLD00094 | 337.00 | CUD00094 | 202.00 |
| 1.14.3 | PVC Cable up to and 10 Sq. Mm Drum | EA | 734 | CLD00095 | 198.00 | CUD00095 | 198.00 |
| 1.14.4 | 33KV Cable XLPE Drum-35/50,70,95,120,185,300,400 Sqmm & LT UV XLPE cable 300 Sqmm | DRUM | 3000 | CLD00096 | 806.00 | CUD00096 | 806.00 |
| 1.14.5 | 11KV Cable XLPE Drum 35/50,70,95,120,185,300 Sqmm | DRUM | 2000 | CLD00097 | 538.00 | CUD00097 | 538.00 |
| | | | | | | | |
| 1.15 | GENERAL ITEMS | | | | | | |
| 1.15.1 | Transformer oil drums with oil | EA | 193 | CLD00098 | 67.00 | CUD00098 | 67.00 |
| 1.15.2 | Empty oil drums | EA | 22 | CLD00099 | 14.00 | CUD00099 | 14.00 |
| 1.15.3 | C.T. Meter box with complete assembly | EA | 15 | CLD00100 | 21.00 | CUD00100 | 21.00 |
| 1.15.4 | 3Ph/CT Meter Boxes | EA | 10 | CLD00101 | 9.00 | CUD00101 | 9.00 |
| 1.15.5 | 3Ph Meters | EA | 2.5 | CLD00102 | 4.00 | CUD00102 | 4.00 |
| 1.15.6 | 1Ph Meters | EA | 1.2 | CLD00103 | 3.00 | CUD00103 | 3.00 |
| 1.15.7 | Fuse units 16 A to 32 A | EA | 0.4 | CLD00104 | 1.00 | CUD00104 | 1.00 |
| 1.15.8 | Fuse units 63 A / 100 A | EA | 0.75 | CLD00105 | 1.00 | CUD00105 | 1.00 |
| 1.15.9 | Fuse units 200 A, 300 A | EA | 1 | CLD00106 | 2.00 | CUD00106 | 2.00 |
| 1.15.10 | 100 Lugs | CAR-100 lugs | 1.6 | CLD00107 | 8.00 | CUD00107 | 8.00 |
| 1.15.11 | 11KV Fixed/ Moving contacts | EA | 1.2 | CLD00108 | 2.00 | CUD00108 | 2.00 |
| 1.15.12 | 33KV Fixed/ Moving contacts | EA | 2.5 | CLD00109 | 3.00 | CUD00109 | 3.00 |
| 1.15.13 | 11KV Cable Jointing kits | EA | 2 | CLD00110 | 5.00 | CUD00110 | 5.00 |
| 1.15.14 | 33KV Cable Jointing kits | EA | 3.5 | CLD00111 | 8.00 | CUD00111 | 8.00 |
| 1.15.15 | Street light fixture | SET | 12.5 | CLD00112 | 10.00 | CUD00112 | 10.00 |
| 1.15.16 | Fuse wire/MRT Materials | KG | 1 | CLD00113 | 3.00 | CUD00113 | 3.00 |
| 1.15.17 | Winding wire up to 5 Kg | ROL | 5 | CLD00114 | 5.00 | CUD00114 | 5.00 |
| 1.15.18 | Winding wire more than 5 Kg | ROL | 15 | CLD00115 | 12.00 | CUD00115 | 12.00 |
| | | | | | | | |
| 1.16 | Paints | | | | | | |
| 1.16.1 | Paints up to & including 5 Lts | EA | 5 | CLD00116 | 3.00 | CUD00116 | 3.00 |
| 1.16.2 | Paints >5 Lts<=20 lts | EA | 20 | CLD00117 | 10.00 | CUD00117 | 10.00 |
| 1.16.3 | Cement | TO | 1000 | CLD00118 | 269.00 | CUD00118 | 269.00 |
| | | | | | | | |
| 1.17 | Loading and unloading of any other materials | | | | | | |
| 1.17.1 | Indoor Items up to 10 Kgs | BAG | 10 | CLD00119 | 8.00 | CUD00119 | 8.00 |
| 1.17.2 | Indoor Items > 10 Kgs | BAG | 25 | CLD00120 | 21.00 | CUD00120 | 21.00 |
| | | | | | | | |

| | | | | | | | |
|---------------|----------------------------|----|------|----------|---------------|----------|---------------|
| 1.18 | SCRAP | | | | | | |
| 1.18.1 | Al./Cu/Plastic Scrap | TO | 1000 | CLD00121 | 585.00 | CUD00121 | 585.00 |
| 1.18.2 | Meters Scrap W/weightment | TO | 1000 | CLD00122 | 446.00 | CUD00122 | 446.00 |
| 1.18.3 | MS/Lead Scrap W/weightment | TO | 1000 | CLD00123 | 446.00 | CUD00123 | 446.00 |

| | | | | |
|----------------|--|-----------------|-----------------|-------------|
| 1.19 | Un coiling of conductor/ cables including weightment and loading | | | |
| Sl.No. | Description | Rate per | SAP Code | Rate |
| 1.19.1 | 34sqmm conductor | KM | CSR00001 | 95.00 |
| 1.19.2 | 55sqmm conductor | KM | CSR00002 | 114.00 |
| 1.19.3 | 100sqmm conductor | KM | CSR00003 | 143.00 |
| 1.19.4 | 200sqmm /Panther conductor- 100RM | EA | CSR00004 | 76.00 |
| 1.19.5 | Single Core 120/95/70 Sqmm LT X-PLE cables | 1RM | CSR00005 | 1.00 |
| 1.19.6 | 3 1/2 Core 120/95/70/50 Sqmm LT X-PLE cables | 1RM | CSR00006 | 2.00 |
| 1.19.7 | Coils 50 / 25 Sqmm | 1RM | CSR00007 | 1.00 |
| 1.19.8 | Coils 10 / 6 / 4.25 / 1.5 Sqmm | 1RM | CSR00008 | 1.00 |
| 1.19.9 | Unwinding including loading 11KV Cable XLPE 35, 50, 70, 95, 120,185,300 Sqmm & LT UV XLPE cable 300 Sqmm | Meter | CSR00009 | 6.00 |
| 1.19.10 | Unwinding including loading 33KV Cable XLPE 35, 50, 70, 95, 120,185,300,400 Sqmm | Meter | CSR00010 | 11.00 |
| 1.19.11 | Un Winding , Weighing and Shifting of 3CX16+25 AB Cable (Check Measurement) | KM | CSR00011 | 114.00 |
| 1.19.12 | Un Winding , Weighing and Shifting of 2CX16+25 AB Cable (Check Measurement) | KM | CSR00012 | 114.00 |
| 2 | Survey of HT/LT lines | | | |
| 2.1 | Labour charges for survey and pit marking of HT/LT lines in plain areas | KM | CSR00013 | 561.00 |
| 2.2 | Labour charges for survey and pit marking of HT/LT lines in Agency and Hilly areas. | KM | CSR00014 | 780.00 |
| 3 | Jungle clearance | | | |
| 3.1 | Clearing of heavy jungle | 10 sqm | CSR00015 | 44.00 |
| 3.2 | Cutting and removing other kind of trees | 1 No | CSR00016 | 45.00 |

| | | | | |
|--------------|--|-----|----------|--------|
| 3.3 | General Tree cutting per one day - Semi skilled labour | 1no | CSR00017 | 621.00 |
| 4 | Excavation of pole pits | | | |
| 4.1 | Excavation of pits in all soils , i.e, mixture of gravel and soft disintegrated rock like shales ordinary gravel, stony earth and earth mixed with fair sized boulders. | | | |
| 4.1.1 | For 8m or 9.1m PSCC/RS Joist Poles (Size of pit is 2'x2'x5' or 0.6mx0.6mx1.5m) | Pit | CSR00018 | 337.00 |
| 4.1.2 | For 10m Joists/Rail Poles (Size of pit is 2'x2'x5'6" or 0.6mx0.6mx1.65m) | Pit | CSR00019 | 352.00 |
| 4.1.3 | For 9.5m Spun or 11m Spun/Joist /PSCC Poles (2'6"x2'6"x6' or 0.75mx0.75mx1.8m) | Pit | CSR00020 | 419.00 |
| 4.1.4 | For 12.5m Spun/Joist Poles (2'6"x2'6"x7' or 0.75mx0.75mx2.1m) | Pit | CSR00021 | 489.00 |
| 4.2 | Excavation of pits in soft disintegrated rock removable by pick axes and disposing material to a lead of 10m and lift of 3m. | | | |
| 4.2.1 | For 8m or 9.1m PSCC/RS Joist Poles (Size of pit is 2'x2'x5' or 0.6mx0.6mx1.5m) | Pit | CSR00022 | 319.00 |
| 4.2.2 | For 10m Joists/Rail Poles (Size of pit is 2'x2'x5'6" or 0.6mx0.6mx1.65m) | Pit | CSR00023 | 352.00 |
| 4.2.3 | For 9.5m Spun or 11m Spun/Joist /PSCC Poles (2'6"x2'6"x6' or 0.75mx0.75mx1.8m) | Pit | CSR00024 | 599.00 |
| 4.2.4 | For 12.5m Spun/Joist Poles (2'6"x2'6"x7' or 0.75mx0.75mx2.1m) | Pit | CSR00025 | 696.00 |
| | | | | |
| 4.3 | Excavation of pole pits in hard rock by blasting. | | | |
| 4.3.1 | For 8m or 9.1m PSCC/RS Joist Poles (Size of pit is 2'x2'x5' or 0.6mx0.6mx1.5m) | Pit | CSR00026 | 824.00 |
| 4.3.2 | For 10m Joists/Rail Poles (Size of pit is 2'x2'x5'6" or 0.6mx0.6mx1.65m) | Pit | CSR00027 | 905.00 |

| | | | | |
|--------------|---|------|----------|---------|
| 4.3.3 | For 9.5m Spun or 11m Spun/Joist /PSCC Poles (2'6"x2'6"x6' or 0.75mx0.75mx1.8m) | Pit | CSR00028 | 1544.00 |
| 4.3.4 | For 12.5m Spun/Joist Poles (2'6"x2'6"x7' or 0.75mx0.75mx2.1m) | Pit | CSR00029 | 1801.00 |
| | | | | |
| 4.4 | Excavation of pole pits for all sizes in cement roads(Shall be certified by Deputy Executive Engineer) | Pit | CSR00030 | 1349.00 |
| | | | | |
| 5 | Transport of one Pole from road side to pit location including loading and unloading (For 1Km, 2Km, 3Km, 4Km and 5 KM) | | | |
| 5.1 | Transport of PSCC poles | Unit | | Rate |
| | Up to 1 Km | | | |
| 5.1.1 | 8m/140 KG PSCC Pole | EA | CSR00031 | 428.00 |
| 5.1.2 | 8m/200 KG PSCC Pole | EA | CSR00032 | 480.00 |
| 5.1.3 | 8m/300 KG PSCC Pole | EA | CSR00033 | 500.00 |
| 5.1.4 | 9.1m/280 KG PSCC Pole | EA | CSR00034 | 631.00 |
| 5.1.5 | 11m/365 KG PSCC Pole | EA | CSR00035 | 854.00 |
| | Up to 2 Km | | | |
| 5.1.6 | 8m/140 KG PSCC Pole | EA | CSR00036 | 481.00 |
| 5.1.7 | 8m/200 KG PSCC Pole | EA | CSR00037 | 538.00 |
| 5.1.8 | 8m/300 KG PSCC Pole | EA | CSR00038 | 561.00 |
| 5.1.9 | 9.1m/280 KG PSCC Pole | EA | CSR00039 | 708.00 |
| 5.1.10 | 11m/365 KG PSCC Pole | EA | CSR00040 | 957.00 |
| | Up to 3 Km | | | |
| 5.1.11 | 8m/140 KG PSCC Pole | EA | CSR00041 | 532.00 |
| 5.1.12 | 8m/200 KG PSCC Pole | EA | CSR00042 | 596.00 |
| 5.1.13 | 8m/300 KG PSCC Pole | EA | CSR00043 | 619.00 |
| 5.1.14 | 9.1m/280 KG PSCC Pole | EA | CSR00044 | 783.00 |
| 5.1.15 | 11m/365 KG PSCC Pole | EA | CSR00045 | 1059.00 |
| | Up to 4 Km | | | |
| 5.1.16 | 8m/140 KG PSCC Pole | EA | CSR00046 | 583.00 |
| 5.1.17 | 8m/200 KG PSCC Pole | EA | CSR00047 | 652.00 |
| 5.1.18 | 8m/300 KG PSCC Pole | EA | CSR00048 | 680.00 |
| 5.1.19 | 9.1m/280 KG PSCC Pole | EA | CSR00049 | 859.00 |
| 5.1.20 | 11m/365 KG PSCC Pole | EA | CSR00050 | 1162.00 |
| | Up to 5 Km | | | |
| 5.1.21 | 8m/140 KG PSCC Pole | EA | CSR00051 | 635.00 |

| | | | | |
|------------|------------------------------------|------|----------|---------|
| 5.1.22 | 8m/200 KG PSCC Pole | EA | CSR00052 | 710.00 |
| 5.1.23 | 8m/300 KG PSCC Pole | EA | CSR00053 | 740.00 |
| 5.1.24 | 9.1m/280 KG PSCC Pole | EA | CSR00054 | 934.00 |
| 5.1.25 | 11m/365 KG PSCC Pole | EA | CSR00055 | 1264.00 |
| | | | | |
| 5.2 | Transport of Spun Poles | | | |
| | Up to 1 Km | | | |
| 5.2.1 | 9.5m/300 KG Spun pole | EA | CSR00056 | 979.00 |
| 5.2.2 | 11m/350KG Spun pole | EA | CSR00057 | 1143.00 |
| 5.2.3 | 12.5m/350 KG Spun pole | EA | CSR00058 | 1247.00 |
| | Up to 2 Km | | | |
| 5.2.4 | 9.5m/300 KG Spun pole | EA | CSR00059 | 1098.00 |
| 5.2.5 | 11m/350KG Spun pole | EA | CSR00060 | 1281.00 |
| 5.2.6 | 12.5m/350 KG Spun pole | EA | CSR00061 | 1397.00 |
| | Up to 3 Km | | | |
| 5.2.7 | 9.5m/300 KG Spun pole | EA | CSR00062 | 1216.00 |
| 5.2.8 | 11m/350KG Spun pole | EA | CSR00063 | 1418.00 |
| 5.2.9 | 12.5m/350 KG Spun pole | EA | CSR00064 | 1547.00 |
| | Up to 4 Km | | | |
| 5.2.10 | 9.5m/300 KG Spun pole | EA | CSR00065 | 1333.00 |
| 5.2.11 | 11m/350KG Spun pole | EA | CSR00066 | 1554.00 |
| 5.2.12 | 12.5m/350 KG Spun pole | EA | CSR00067 | 1696.00 |
| | Up to 5 Km | | | |
| 5.2.13 | 9.5m/300 KG Spun pole | EA | CSR00068 | 1451.00 |
| 5.2.14 | 11m/350KG Spun pole | EA | CSR00069 | 1692.00 |
| 5.2.15 | 12.5m/350 KG Spun pole | EA | CSR00070 | 1846.00 |
| | | | | |
| 5.3 | Transport of RS Joist poles | Unit | | |
| | Up to 1 Km | | | |
| 5.3.1 | 9m - 150x75 RS Joist pole | EA | CSR00071 | 428.00 |
| 5.3.2 | 9m- 175 x85 RS Joist Pole | EA | CSR00072 | 500.00 |
| 5.3.3 | 9m - 150x150 RS Joist Pole | EA | CSR00073 | 599.00 |
| | Up to 2 Km | | | |
| 5.3.4 | 9m - 150x75 RS Joist pole | EA | CSR00074 | 481.00 |
| 5.3.5 | 9m- 175 x85 RS Joist Pole | EA | CSR00075 | 561.00 |
| 5.3.6 | 9m - 150x150 RS Joist Pole | EA | CSR00076 | 671.00 |
| | Up to 3 Km | | | |
| 5.3.7 | 9m - 150x75 RS Joist pole | EA | CSR00077 | 532.00 |
| 5.3.8 | 9m- 175 x85 RS Joist Pole | EA | CSR00078 | 619.00 |
| 5.3.9 | 9m - 150x150 RS Joist Pole | EA | CSR00079 | 742.00 |
| | Up to 4 Km | | | |
| 5.3.10 | 9m - 150x75 RS Joist pole | EA | CSR00080 | 583.00 |
| 5.3.11 | 9m- 175 x85 RS Joist Pole | EA | CSR00081 | 680.00 |
| 5.3.12 | 9m - 150x150 RS Joist Pole | EA | CSR00082 | 814.00 |

| | | | | |
|------------|---|------|----------|---------|
| | Up to 5 Km | | | |
| 5.3.13 | 9m - 150x75 RS Joist pole | EA | CSR00083 | 635.00 |
| 5.3.14 | 9m- 175 x85 RS Joist Pole | EA | CSR00084 | 740.00 |
| 5.3.15 | 9m - 150x150 RS Joist Pole | EA | CSR00085 | 885.00 |
| | | | | |
| 5.4 | Transport of Rail poles | Unit | | |
| | Up to 1 Km | | | |
| 5.4.1 | 8.23m - 60lbs/27.3 Kg Rail pole | EA | CSR00086 | 480.00 |
| 5.4.2 | 9.14m - 75lbs/34.1 Kg Rail pole | EA | CSR00087 | 631.00 |
| 5.4.3 | 9.14m - 90lbs/40.9Kg Rail pole | EA | CSR00088 | 666.00 |
| 5.4.4 | 9.14m - 105lbs/47.7Kg Rail pole | EA | CSR00089 | 705.00 |
| | Up to 2 Km | | | |
| 5.4.5 | 8.23m - 60lbs/27.3 Kg Rail pole | EA | CSR00090 | 538.00 |
| 5.4.6 | 9.14m - 75lbs/34.1 Kg Rail pole | EA | CSR00091 | 708.00 |
| 5.4.7 | 9.14m - 90lbs/40.9Kg Rail pole | EA | CSR00092 | 747.00 |
| 5.4.8 | 9.14m - 105lbs/47.7Kg Rail pole | EA | CSR00093 | 789.00 |
| | Up to 3 Km | | | |
| 5.4.9 | 8.23m - 60lbs/27.3 Kg Rail pole | EA | CSR00094 | 596.00 |
| 5.4.10 | 9.14m - 75lbs/34.1 Kg Rail pole | EA | CSR00095 | 783.00 |
| 5.4.11 | 9.14m - 90lbs/40.9Kg Rail pole | EA | CSR00096 | 827.00 |
| 5.4.12 | 9.14m - 105lbs/47.7Kg Rail pole | EA | CSR00097 | 875.00 |
| | Up to 4 Km | | | |
| 5.4.13 | 8.23m - 60lbs/27.3 Kg Rail pole | EA | CSR00098 | 652.00 |
| 5.4.14 | 9.14m - 75lbs/34.1 Kg Rail pole | EA | CSR00099 | 859.00 |
| 5.4.15 | 9.14m - 90lbs/40.9Kg Rail pole | EA | CSR00100 | 905.00 |
| 5.4.16 | 9.14m - 105lbs/47.7Kg Rail pole | EA | CSR00101 | 959.00 |
| | Up to 5 Km | | | |
| 5.4.17 | 8.23m - 60lbs/27.3 Kg Rail pole | EA | CSR00102 | 710.00 |
| 5.4.18 | 9.14m - 75lbs/34.1 Kg Rail pole | EA | CSR00103 | 934.00 |
| 5.4.19 | 9.14m - 90lbs/40.9Kg Rail pole | EA | CSR00104 | 985.00 |
| 5.4.20 | 9.14m - 105lbs/47.7Kg Rail pole | EA | CSR00105 | 1043.00 |
| | | | | |
| | | | | |
| 6 | Erection of PSCC/Spun/Rail/RS Joist Poles | | | |
| | Erection of PSCC/Spun/Rail/RS Joist Poles in position, aligning and setting to work as per specification including supply of labour, T&P, back filling the earth, ramming for consolidation but excluding the cost of pit excavation and cost of transport. | | | |

| | | | | |
|------------|--|---|----------|---------|
| 6.1 | Erection of PSCC poles | Unit | | |
| 6.1.1 | 8m/140 KG PSCC Pole | EA | CSR00106 | 580.00 |
| 6.1.2 | 8m/200 KG PSCC Pole | EA | CSR00107 | 880.00 |
| 6.1.3 | 8m/300 KG PSCC Pole | EA | CSR00108 | 775.00 |
| 6.1.4 | 9.1m/280 KG PSCC Pole | EA | CSR00109 | 1627.00 |
| 6.1.5 | 11m/365 KG PSCC Pole | EA | CSR00110 | 2822.00 |
| | | | | |
| 6.2 | Erection of Spun Poles | | | |
| 6.2.1 | 9.5m/300 KG Spun pole | EA | CSR00111 | 2090.00 |
| 6.2.2 | 11m/350KG Spun pole | EA | CSR00112 | 3035.00 |
| 6.2.3 | 12.5m/350 KG Spun pole | EA | CSR00113 | 3729.00 |
| | | | | |
| 6.3 | Erection of RS Joist poles | | | |
| 6.3.1 | 9m - 150x75 RS Joist pole | EA | CSR00114 | 532.00 |
| 6.3.2 | 9m- 175 x85 RS Joist Pole | EA | CSR00115 | 548.00 |
| 6.3.3 | 9m - 150x150 RS Joist Pole | EA | CSR00116 | 1015.00 |
| | | | | |
| 6.4 | Erection of Rail poles | | | |
| 6.4.1 | 8.23m - 60lbs/27.3 Kg Rail pole | EA | CSR00117 | 959.00 |
| 6.4.2 | 9.14m - 75lbs/34.1 Kg Rail pole | EA | CSR00118 | 987.00 |
| 6.4.3 | 9.14m - 90lbs/40.9Kg Rail pole | EA | CSR00119 | 1005.00 |
| 6.4.4 | 9.14m - 105lbs/47.7Kg Rail pole | EA | CSR00120 | 1026.00 |
| | | | | |
| 7 | Rectification of Leaned poles | | | |
| | Labour charges for rectification of all types of leaned poles where the lean is more than 30 degree to the vertical. | 35% of pole erection charges | | |
| | | | | |
| 8 | Dismantling works | | | |
| | Dismantling charges for all types of works | 75% of erection charges . In case poles are received in good condition, 75% erection charges are payable. If pole is received in damaged condition then 50% erection charges are payable. | | |
| | | | | |
| 9 | Erection of stay sets | | | |
| 9.1 | Erection of stay set for 33 KV line | EA | CSR00121 | 261.00 |

| | | | | |
|-------------|--|------|----------|--------|
| 9.2 | Erection of stay set for 11 KV line or LT Line | EA | CSR00122 | 269.00 |
| | | | | |
| 10 | Erection of Cross arms | | | |
| 10.1 | 33KV Cross arms | | | |
| 10.1.1 | 33 KV V X-arms | EA | CSR00123 | 96.00 |
| 10.1.2 | 33 KV Top fittings | EA | CSR00124 | 75.00 |
| 10.1.3 | 33 KV Tapping Channel X-arm set | EA | CSR00125 | 110.00 |
| 10.1.4 | 33 KV Side arm with strut | EA | CSR00126 | 127.00 |
| 10.1.5 | 33 KV T Channel Set | EA | CSR00127 | 127.00 |
| 10.2 | 11 KV Cross arms | | | |
| 10.2.1 | 11 KV V X-arms | EA | CSR00128 | 77.00 |
| 10.2.2 | 11 KV Top fittings | EA | CSR00129 | 49.00 |
| 10.2.3 | 11 KV Tapping Channel X-arm | EA | CSR00130 | 88.00 |
| 10.2.4 | 11 KV Side arm with strut | EA | CSR00131 | 121.00 |
| 10.2.5 | 11 KV T Channel Set | EA | CSR00132 | 105.00 |
| 10.3 | LT Cross arms | | | |
| 10.3.1 | LT S Ph. X-arm | EA | CSR00133 | 69.00 |
| 10.3.2 | LT Top fitting | EA | CSR00134 | 44.00 |
| 10.3.3 | LT 3 Ph. 4 / 5 W X-arm | EA | CSR00135 | 77.00 |
| 10.3.4 | LT 3 Ph. Side arm with strut | EA | CSR00136 | 86.00 |
| | | | | |
| 11 | Fixing of insulators | | | |
| 11.1 | 33 KV Insulators | | | |
| 11.1.1 | 33 KV Polymer Pin Insulators | Each | CSR00137 | 36.00 |
| 11.1.2 | 33 KV Porcelain Pin Insulators | Each | CSR00138 | 34.00 |
| 11.1.3 | 33 KV Composite Polymer/porcelain Disc Insulator | Each | CSR00139 | 99.00 |
| 11.2 | 11 KV Insulators | | | |
| 11.2.1 | 11 KV Polymer Pin Insulators | Each | CSR00140 | 34.00 |
| 11.2.2 | 11 KV Porcelain Pin Insulators | Each | CSR00141 | 34.00 |
| 11.2.3 | 11 KV Composite Polymer/ porcelain Disc Insulator | Each | CSR00142 | 66.00 |
| 11.3 | LT Insulators | | | |
| 11.3.1 | LT PI / Shackles | Each | CSR00143 | 26.00 |
| | | | | |
| 12 | Erection of Double Pole structure | | | |
| | Individual pole erection charges and other relevant items are to be considered to arrive the cost of erection of double pole structure | | | |
| | | | | |

| | | | | |
|-----------|---|---|----------|----------|
| 13 | Erection of Strut | | | |
| 13.1 | Erection of Strut | Relevant pole erection charges are to be considered for erection of strut | | |
| 13.2 | Erection of 33KV Stay set with stay wire binding for eye bolt guy insulator and anchor rod and back filling the stay pit. | EA | CSR00144 | 243.00 |
| 13.3 | Erection of 11KV Stay set with stay wire binding for eye bolt guy insulator and anchor rod and back filling the stay pit. | EA | CSR00145 | 202.00 |
| | | | | |
| 14 | Paving, Stringing and Jumpering of Conductor | | | |
| 14.1 | 100 sq mm AAAC /Per KM/Per Conductor | KM | CSR00146 | 6071.00 |
| 14.2 | 55 sq mm AAAC /Per KM/Per Conductor | KM | CSR00147 | 3238.00 |
| 14.3 | 34 sq mm AAAC /Per KM/Per Conductor | KM | CSR00148 | 2698.00 |
| | | | | |
| 15 | Paving , Stringing and Jumpering of Cable | | | |
| 15.1 | 2x16+25 sq mm | KM | CSR00149 | 3035.00 |
| 15.2 | 3x16+25 sq mm | KM | CSR00150 | 5240.00 |
| 15.3 | 11KV AB cable | KM | CSR00151 | 14993.00 |
| | | | | |
| 16 | Restringing of loose spans | | | |
| | Charges for restringing of loose spans | 50% of stringing charges | | |
| 17 | Concreting of pole pits, stay pits and construction of DTR plinths | | | |
| | AP Government has issued orders duly specifying rates of sand based on stock point. These rates varies from Rs 375 to Rs 1865/- per Metric tonne for each stock point differently. Hence the item rates are given in four categories as shown below. While preparing estimate, user has to verify nearest stock point sand rate from the site and adopt proper item rate. | | | |

| | | | | |
|-------------|--|----|----------|----------|
| 17.1 | Concreting of pole pit | | | |
| 17.1.1 | Concreting of pole pit of size 2'x2'x5' (0.6m x 0.6mx1.5 m.) with C.C.(1:4:8) using 40 mm. HBG metal. | EA | CSR00152 | 2860.00 |
| 17.1.2 | Concreting of pole pit of size 2'x2'x5' (0.6m x 0.6mx1.5 m.) with C.C.(1:3:6) using 20 mm and 12mm HBG metal. | EA | CSR00153 | 3012.00 |
| 17.2 | Concreting of stay pit | | | |
| 17.2.1 | Concreting of stay pit of size 1'-6" x 1'-6" x 4'6" (0.45mx0.45x1.35m) with C.C. (1:4:8) using 40 mm and 20mm HBG metal | EA | CSR00154 | 1454.00 |
| 17.2.2 | Concreting of stay pit of size 1' 6"x 1'-6" x 4' 6"(0.45mx0.45x1.35m) with C.C. (1:3:6) using 20 mm and 12mm HBG metal | EA | CSR00155 | 1530.00 |
| | | | | |
| 17.3 | Construction of DTR plinths | | | |
| 17.3.1 | Construction of DTR plinths- Size 4'x4'x6'(above ground) and 4'x4'x3' (below ground) with brick masonry/RR masonry wall - Excavation of pit of size 4'x4'x3', laying bed concrete with CC(1:4:8) using 40mm and 20mm HBG metal for 6" depth, Construction of distribution transformer plinth with 9" thick 8' height brick masonry wall in CM (1:6) all-round, filling the hollow portion with sand, laying of 6" thick PCC (1:3:6) using 20 mm and 12mm HBG metal on top and plastering all-round the outer side of wall with CM (1:5) 12mm thick and white washing two coats, including cost and Transport of all materials. | EA | CSR00156 | 24225.00 |

| | | | | |
|-----------|--|----|----------|----------|
| 17.3.2 | Construction of DTR plinths- Pillar mounted RCC plinth with 5'x5'x5" slab with column 6' above ground level. - Excavation of pit of size 4'x4'x5', laying bed concrete with CC(1:4:8) using 40mm and 20mm HBG metal for 6" depth, Construction of distribution transformer plinth with footing size (4'x4'x1.5'), column size 9"x9"x4'6"(below ground), 9"x9"x5' (above ground), cross beams in plus shape 4'x9"x12", slab size 5'x5'x5", providing reif steel 12mm rod for footings and slab at 6" spacing, 4 nos 12mm rod for columns and beams with 8mm stirrups, re-filling the hollow portion with excavated earth, plastering CM (1:5) 12mm thick and painting one coat to slabs, column and beam. | EA | CSR00158 | 23465.00 |
| 17.3.3 | Construction of DTR plinths- Size 4'x4'x6'(above ground) and 4'x4'x3' (below ground) with brick masonry/RR masonry wall- Excavation of pit of size 4'x4'x3', laying bed concrete with CC(1:4:8) using 40mm and 20mm HBG metal for 6" depth, Construction of distribution transformer plinth with 9" thick 8'6" height brick masonry wall in CM (1:6) all-round, filling the hollow portion with sand, and plastering all-round the outer side of wall with CM (1:5) 12mm thick and white washing two coats, including cost and Transport of all | EA | CSR00159 | 30400.00 |
| | | | | |
| 18 | Erection or Dismantlement of DTRs | | | |
| | Erection of Distribution Transformer on the plinth/pole carefully without causing and damaging to bushing including labour and transport complete including earthing as per department standards. | | | |
| 18.1 | 1Ph DTRs 5 / 15 KVA | EA | CSR00160 | 605.00 |

| | | | | |
|-----------|---|---------------------|----------|---------|
| 18.2 | 3Ph DTRs up to 40 KVA | EA | CSR00161 | 1066.00 |
| 18.3 | 3Ph DTRs 63 KVA to 160 KVA | EA | CSR00162 | 1305.00 |
| 18.4 | 3Ph DTRs 200 KVA to 500 KVA | EA | CSR00163 | 1739.00 |
| | | | | |
| 19 | Erection of earth electrodes | | | |
| | Erection of earth electrodes using CI/GI pipes including pit excavation, back filling , bentonite powder and cement collar of 2' dia x 1' height etc complete. | | | |
| 19.1 | GI Pipe 40mm/ 80mm depth up to 2m (6.5ft) | | | |
| | (a) Including cement collar and bentonite powder | EA | CSR00164 | 1079.00 |
| | (b) Excluding cement collar and bentonite powder | EA | | 675.00 |
| 19.2 | CI Pipe 80mm/ 150mm depth up to 3m (10ft) | | | |
| | (a) Including cement collar and bentonite powder | EA | CSR00165 | 1484.00 |
| | (b) Excluding cement collar and bentonite powder | EA | | 944.00 |
| | | | | |
| 20 | Wiring of 3 Phase DTR | | | |
| | Wiring of 3 phase Distribution Transformer with PVC Cable/XLPE cable/ conductor from transformer LV bushing to LT HG Fuse set and HG Fuse set to line with bear conductor supported on insulator fixed to fabricated LV frame including lugging at terminals. | | | |
| 20.1 | Single feeder (open / PVC cable/ XLPE Cable) | EA | CSR00166 | 775.00 |
| 20.2 | Double feeder (open / PVC cable/ XLPE Cable) | EA | CSR00167 | 1433.00 |
| | | | | |
| 21 | Earthing of DTRs | | | |
| | Running of No 8 G.I wire from Distribution Transformer (3 Phase) AB Switch, HG Fuse Set V'X' Arm etc running of 14 SWG G.I. Wire including double earthing as per specification for running of total 10 Nos GI wires. (Per Lead Per length) | Per Lead Per length | CSR00168 | 41.00 |

| | | | | |
|-----------|--|-------|----------|-----------|
| | | | | |
| 22 | Security fencing to DTRs | | | |
| | Providing security fencing to Distribution Transformer structures with gate and locking arrangement which is one side removable and three sides fixed fencing using G.I. Chain link mesh 8 gauge 50.8mm x 50.8mm (2" x 2") size, MS angle 50 x 50 x 6, MS flat 35 x 6, MS flat 25 x 6, bolts, nuts, Aldrop, hinges, concreting the supports with PCC (1:3:6), painting one coat red oxide, two coats synthetic enamel paint, complete for finished item of work. | 1 sqm | CSR00169 | 1398.00 |
| | | | | |
| 23 | Erection of HG Fuse sets | | | |
| 23.1 | Erection of HG Fuse sets- 33 KV fuse set | EA | CSR00170 | 603.00 |
| 23.2 | Erection of HG Fuse sets- 11 KV fuse set | EA | CSR00171 | 397.00 |
| 23.3 | Erection of HG Fuse sets- LT fuse set | EA | CSR00172 | 297.00 |
| | | | | |
| 24 | Extra percentage towards work involving (a) Single Pole (b) Two Pole (c) Three Poles (This rate is applicable to both Urban and Rural areas) | | | |
| 24.1 | Single Pole | EA | | 50% extra |
| 24.2 | Two Poles | EA | | 25% extra |
| 24.3 | Three Poles | EA | | 0 |
| | | | | |

| | | | | |
|-----------|--|------|----------|----------|
| | 33/11 KV sub station works | | | |
| 25 | Erection of VCBs with CTs and CR Panels including earthing, wiring and Jumpering with all accessories as per departmental standards. | | | |
| 25.1 | 33 KV VCBs | EA | CSR00173 | 10185.00 |
| 25.2 | 11 KV VCBs | EA | CSR00174 | 8645.00 |
| 26 | Erection of AB switches | | | |
| 26.1 | 33 KV AB switch | EA | CSR00175 | 1680.00 |
| 26.2 | 11 KV AB switch | EA | CSR00176 | 1318.00 |
| | | | | |
| 27 | Painting of old structures (Work is to be done during LC period, hence these rates are applicable for old structures. For new structures separate rate is to be worked out) | | | |
| | | | | |
| 27.1 | Painting of old structures - with One coat of Anti corrosive bitumen black paint or red oxide priming coat during LC period. | | | |
| | Rate /1 sqm | 1sqm | CSR00177 | 122.00 |
| | Rate / 1MT | 1MT | CSR00178 | 3787.00 |
| 27.2 | Painting of old structures - with One coat of aluminium/ Synthetic enamel paint during LC period. | | | |
| | Rate /1 sqm | 1sqm | CSR00179 | 134.00 |
| | Rate / 1MT | 1MT | CSR00180 | 4162.00 |
| 27.3 | Painting of old structures - with two coats of aluminium/ Synthetic enamel paint during LC period. | | | |
| | Rate /1 sqm | 1sqm | CSR00181 | 210.00 |
| | Rate / 1MT | 1MT | CSR00182 | 6541.00 |
| 27.4 | Painting of old structures - with One coat of red oxide and two coats of aluminium paint or synthetic enamel paint during LC period. | | | |
| | Rate /1 sqm | 1sqm | CSR00183 | 331.00 |

| | Rate / 1MT | 1MT | CSR00184 | 10327.00 |
|--------|--|-----|----------|----------|
| 28 | Paving out and laying of 33KV/11 KV UG cable duly forming the cable trench including excavation of trench 2'X2' filling the trench with excavated earth including transporting of cable etc. complete with out construction of trench. / Laying of copper control cables buried in trench or ground and termination. | | | |
| 28.1 | 33 KV UG cable | RM | CSR00185 | 432.00 |
| 28.2 | 11 KV UG cable | RM | CSR00186 | 237.00 |
| 28.3 | 4Corex2.5sqmm | RM | CSR00187 | 50.00 |
| 28.4 | 10Corex2.5sqmm | RM | CSR00188 | 57.00 |
| 29 | Erection of Cable Heat Shrunken joints excluding material cost. | | | |
| 29.1 | 33 KV cable heat shrunken joint | | | |
| 29.1.1 | up to 185 Sqmm | EA | CSR00189 | 3563.00 |
| 29.1.2 | Above 185 Sqmm | EA | CSR00190 | 4988.00 |
| 29.2 | 11 KV cable heat shrunken joint | | | |
| 29.2.1 | Up to 70 Sqmm | EA | CSR00191 | 1425.00 |
| 29.2.2 | 95Sqmm to 185Sqmm | EA | CSR00192 | 2375.00 |
| 29.2.3 | Above 185Sqmm | EA | CSR00193 | 3325.00 |
| 30 | 11 KV AB cable end termination consisting of 3 phases. | SET | CSR00194 | 6935.00 |
| 31 | Labour charges for erection of 33 or 11 KV C.Ts including all connections. | | | |
| 31.1 | 33 KV CTs | EA | CSR00195 | 337.00 |
| 31.2 | 11 KV CTs | EA | CSR00196 | 337.00 |
| 31.3 | 33KV Las- set(station type) | SET | CSR00197 | 2024.00 |
| 31.4 | 11KV Las- set(station type) | SET | CSR00198 | 1686.00 |
| 31.5 | 33 or 11KV Line type LAs | EA | CSR00199 | 135.00 |
| 32 | Labour charges for erection of HT metering cubicle including all connections and earthing as per departmental standards. | EA | CSR00200 | 988.00 |

| | | | | |
|-----------|--|------|----------|---------|
| 33 | Labour charges for erection of HT Trivector meter box including all connections and earthing as per departmental standards. | EA | CSR00201 | 632.00 |
| 34 | Labour charges for fixing of tube light fitting for street light | EA | CSR00202 | 199.00 |
| 35 | Labour charges for fixing of MV/SV lamp fitting for street light | EA | CSR00203 | 219.00 |
| 36 | Laying of earth mat/risers including excavation of trenches, welding, fixing lugs, connecting to equipment and refilling trenches using MS flat 75x8mm or 50x8mm. | | | |
| 36.1 | 75x8mm | RM | CSR00204 | 92.00 |
| 36.2 | 50x8mm | RM | CSR00205 | 63.00 |
| | | | | |
| 37 | M & P Division Items | | | |
| | Labour charges for testing and repairing of meters and rigging and modification of CT Boxes. | | | |
| 37.1 | Single Phase meter repair and overhauling | Each | CSR00206 | 35.00 |
| 37.2 | Single Phase meter old or new testing | Each | CSR00207 | 25.00 |
| 37.3 | Sealing of Meter bit, including inserting of wire | Each | CSR00208 | 12.00 |
| 37.4 | Winding of trip and close coils including material and without bobbin | Each | CSR00209 | 1397.00 |
| 37.5 | Fixing of 3-Ph LT CT meter at DTR including transport | Each | CSR00210 | 1964.00 |
| 37.6 | Replacement of existing S-Ph meter with H.A meter (all types including infrared(IR) meter) including writing meter change slip and handing over to Section office including transporting from section office to location and back. | Each | CSR00211 | 93.00 |

| | | | | |
|---------|---|------|----------|--------|
| 37.7 | Replacement of existing S-Ph meter with H.A meter (all types including infrared(IR) meter) and supply of flexible pipe and PVC pipe including writing meter change slip and handing over to Section office including transporting from section office to location and back. | Each | CSR00212 | 134.00 |
| 37.8 | Replacement of existing 3-Ph meter with H.A meter (all types including infrared(IR) meter) including writing meter change slip and handing over to Section office including transporting from section office to location and back. | Each | CSR00213 | 141.00 |
| 37.9 | Replacement of existing 3-Ph meter with H.A meter (all types including infrared(IR) meter) and supply of flexible pipe and PVC pipe including writing meter change slip and handing over to Section office including transporting from section office to location and back. | Each | CSR00214 | 195.00 |
| 37.10 | Erection of 33KV and 11KV CTs including earthing & Jumpering with GI/Copper wire | Each | CSR00215 | 354.00 |
| 37.11 | Erection of 33KV and 11KV CTs including earthing & Jumpering with GI/Copper/MS Flat Earthing | Each | CSR00216 | 448.00 |
| 37.12 | Handling, testing, providing of seals with cover, stacking neatly. | | | |
| 37.12.1 | S phase energy meter. | EA | CSR00217 | 17.00 |
| 37.12.2 | 3 Phase energy meter | EA | CSR00218 | 28.00 |

| | | | | |
|---------|--|----|----------|-------|
| 37.13 | Labour charges for sealing of single phase/3 phase meters including transportation of meter box carton to work spot, unpacking, packing of sealed meters and stocking etc., complete. | | | |
| 37.13.1 | 2 Seals | EA | CSR00219 | 8.00 |
| 37.13.2 | 3 Seals | EA | CSR00220 | 8.00 |
| 37.13.3 | 4 Seals | EA | CSR00221 | 8.00 |
| 37.14 | Labour charges for sealing of S Phase/ 3 phase energy meters housed in PP box including transportation unpacking and packing and stocking of meter box etc., complete. | | | |
| 37.14.1 | 2 Seals | EA | CSR00222 | 8.00 |
| 37.14.2 | 3 Seals | EA | CSR00223 | 8.00 |
| 37.14.3 | 4 Seals | EA | CSR00224 | 8.00 |
| 37.14.4 | 6 Seals | EA | CSR00225 | 14.00 |
| 37.15 | Removing the meter back cover, cleaning the old meter cover, painting the meter top & bottom covers with good approved enamel black paint, cleaning the meter with petrol and oiling to bearings with good 2 in 1 oil (Usha make) refixing the meter in meter cover duly providing new gaskets. Testing and adjustments of the meter as per departmental standards, loading, transporting, and unloading including introducing sealing wire to each meter including replacement of glass wherever necessary. | | | |
| 37.15.1 | Including cost of paint | EA | CSR00226 | 43.00 |
| 37.15.2 | Excluding cost of paint | EA | CSR00227 | 31.00 |
| 37.16 | Removal or fixing of PC coil, CC coil or Disc, cyclometer or terminal block. | EA | CSR00228 | 6.00 |
| 37.17 | Metering arrangement with CTs to 16/25 KVA Agricultural DTRs | | | |

| | | | | |
|-------------|--|----|----------|----------|
| 37.17.1 | Supply and rigging of meter with country wood of size 1'x1/2', 7/20 finolex wire, bolts and nuts and screws along with lugs. Removing of metallic strip in syntex box, fixing of wooden board suitably, fixing of meter and CT in position including fixing of neutral terminal bolt. Providing of internal wiring duly giving proper connections, opening of internal link in the meter duly providing sealing after testing. (energy meter and box will be supplied by the dept) | EA | CSR00229 | 1024.00 |
| 37.17.2 | Supply and fixing of 2meters of aluminium cable, 05m of 3/20 copper wire, 2 sets of clamps with bolts and nuts and misc items like insulation tapes, screws etc., including labour charges for fixing of box and transport charges including loading and unloading. | EA | CSR00230 | 472.00 |
| 37.17.3 | do. with 4 sets of clamps | EA | CSR00231 | 552.00 |
| 37.18 | HT metering wiring including pipes, bends and wires including cost of pipes, bends and wires | LS | CSR00232 | 2968.00 |
| | | | | |
| | | | | |
| | Transformer division/ SPM Works | | | |
| 38.1 | Loading or Unloading of PTR in to Lorry | | | |
| 38.1.1 | Loading or Unloading of 1.5MVA/ 3MVA / 3.15MVA PTR | EA | CSR00233 | 4722.00 |
| 38.1.2 | Loading or Unloading of 5MVA PTR | EA | CSR00234 | 7299.00 |
| 38.1.3 | Loading or Unloading of 8MVA PTR | EA | CSR00235 | 9432.00 |
| 38.1.4 | Loading or Unloading of 10MVA | EA | CSR00236 | 11469.00 |
| 38.1.5 | Loading or Unloading of 12.5MVA | EA | CSR00237 | 12744.00 |
| 38.2 | Dragging of PTR on ground | | | |

| | | | | |
|-------------|--|------------|----------|---------|
| 38.2.1 | Dragging of 1.5MVA/3MVA/3.15MVA/5MVA PTR | FT | CSR00238 | 449.00 |
| 38.2.2 | Dragging of 8MVA/10 MVA PTR | FT | CSR00239 | 512.00 |
| 38.3 | Assembling or Dismantling of conservator tank, radiators, vent pipe and other accessories of PTR | | | |
| 38.3.1 | 1.5MVA PTR to 5MVA PTR | EA | CSR00240 | 4808.00 |
| 38.3.2 | 8MVA PTR to 12.5MVA PTR | EA | CSR00241 | 5900.00 |
| | | | | |
| 38.4 | Top up/ removal of Transformer Oil into Conservator tank Radiators and other accessories | | | |
| 38.4.1 | 1.5MVA PTR to 5MVA PTR | EA | CSR00242 | 2569.00 |
| 38.4.2 | 8MVA PTR to 12.5MVA PTR | EA | CSR00243 | 2974.00 |
| 38.5 | Labour for opening of the top cover of CSP Transformer by cutting with grinder and welding/fixing with bolts and nuts of the top cover for various capacities of Distribution transformers ie.,63 KVA,100KVA 250 KVA and 500 KVA at SPM shed inclusive of cost of welding electrodes, cost of bolts and nuts and drilling of holes | EA | CSR00244 | 2428.00 |
| 38.6 | Labour charges for reclamation of used transformer oil at MRT shed | Kilo Litre | CSR00245 | 6745.00 |
| 38.7 | Providing of MS vent pipe with diaphragm to the top cover of the D.Tr. The vent Pipe consists of 50mm dia, 4mm thick copper foil should be fixed between flange of the Nipple and 180 bend. Wire gauge protection should be provided at the end of the bend Duly providing flange | EA | CSR00246 | 352.00 |
| | | | | |
| | FABRICATION OF LINE MATERIALS | | | |
| 39 | CUTTING CHARGES | | | |
| 39.1 | 60 lbs. Rail poles | EA | CSR00247 | 51.00 |
| 39.2 | 90 lbs. Rail poles | EA | CSR00248 | 80.00 |
| 39.3 | 105 lbs. Rail poles | EA | CSR00249 | 80.00 |

| | | | | |
|--------|---|----|----------|--------|
| 39.4 | R.S. Joists of various sizes | EA | CSR00250 | 41.00 |
| 39.5 | M.S. Channels of size 75 x 40 mm. and 80 x 40 mm | EA | CSR00251 | 14.00 |
| 39.6 | M.S. Channels of size 100 x 50 mm. and 125 x 65 mm | EA | CSR00252 | 15.00 |
| 39.7 | M.S. Channels of size 150 x 75 mm. and above | EA | CSR00253 | 21.00 |
| 39.8 | M.S. Angles of sizes 50 x 50 x 6 mm. and 55 x 55 x 5 mm. | EA | CSR00254 | 8.00 |
| 39.9 | M.S. Angles of size 65 x 65 x 6 mm. and above | EA | CSR00255 | 9.00 |
| 39.10 | M.S. Flat 75 x 8 mm. | EA | CSR00256 | 6.00 |
| 39.11 | M.S. Flat of size 50 x 6 mm. | EA | CSR00257 | 6.00 |
| 39.12 | M.S. Flat of width below 50 mm. | EA | CSR00258 | 6.00 |
| 39.13 | M.S. Rounds up to 23 mm. | EA | CSR00259 | 6.00 |
| 40 | DRILLING CHARGES | | | |
| 40.1 | Charges for drilling of holes to various sizes of angle, channel and flats. | | | |
| 40.1.1 | For holes up to 18 mm. | EA | CSR00260 | 6.00 |
| 40.1.2 | For holes above 18 mm | EA | CSR00261 | 8.00 |
| 40.2 | Drilling of holes of various sizes to R.S. Joists and Rail poles with ratchet or hand Drilling machine: | | | |
| 40.2.1 | For R.S. Joists | EA | CSR00262 | 9.00 |
| 40.2.2 | For 60 lbs. Rail poles | EA | CSR00263 | 10.00 |
| 40.2.3 | For 90 lbs. Rail poles | EA | CSR00264 | 11.00 |
| 40.3 | Drilling of holes of various sizes to R.S. Joists or Rails poles using power drilling Machine:. | | | |
| 40.3.1 | For R.S. Joists | EA | CSR00265 | 8.00 |
| 40.3.2 | For 60 lbs. Rail poles | EA | CSR00266 | 9.00 |
| 40.3.3 | For 90 lbs. And 120 lbs Rail | EA | CSR00267 | 10.00 |
| 41 | FABRICATION CHARGES | | | |
| 41.1 | 33 KV "V" Cross arms with 100x50 mm MS Channel 2.08mtrs(6'.10") – Weight of the materials=19.0 Kg | EA | CSR00268 | 214.00 |
| 41.2 | 11KV "V" Cross arms . | | | |
| 41.2.1 | With 75x40 mm M.S. Channel . Weight of the materials = 9 Kgs.(with 4 nos 50x50x6 packing plates are welded) | EA | CSR00269 | 178.00 |
| 41.2.2 | With 65x65x6mm M.S. Angle – . Weight of the materials =8.2 Kgs | EA | CSR00270 | 138.00 |

| | | | | |
|--------|--|----|----------|--------|
| 41.3 | LT 3.Phase 4 Wire Cross arms. | | | |
| 41.3.1 | With 50x50x6mm M.S. Angle(3'.8") . Weight of the materials = 5.75 Kgs. | EA | CSR00271 | 79.00 |
| 41.3.2 | With 65x65x6mm M.S. Angle (3'.8") – Weight of the materials = 7 Kgs | EA | CSR00272 | 79.00 |
| 41.4 | LT 3.Phase 5 Wire Cross arms . | | | |
| 41.4.1 | With 50x50x6mm M.S. Angle(4'.5")– Weight of the materials = 7.3 Kgs | EA | CSR00273 | 82.00 |
| 41.4.2 | With 65x65x6mm M.S. Angle (4'.5") – Weight of the materials = 9.6 Kgs | EA | CSR00274 | 82.00 |
| 41.5 | LT S.Phase 3 Wire Cross arms with 50x50x6mm M.S. Angle (2'.5") = Weight of the materials = 4.2 Kgs. | EA | CSR00275 | 59.00 |
| 41.6 | M.S. Stay sets | | | |
| 41.6.1 | 11 KV M.S. Stay sets with 20 mm M.S. Rod & Stay Clamps with 100x50mm M.S. Channel . Weight of the materials = 10.3 Kgs | EA | CSR00276 | 194.00 |
| 41.6.2 | M.S. Stay sets with 20 mm M.S. Rod & Stay Clamps with 75 x40mm M.S. Channel . Weight of the materials = 10.2 Kgs. | EA | CSR00277 | 194.00 |
| 41.6.3 | M.S. Stay sets with 16mm M.S. Rod & Stay Clamps with 100x50mm M.S. Channel .Weight of the materials = 8.0 Kgs | EA | CSR00278 | 156.00 |
| 41.6.4 | M.S. Stay sets with 16mm M.S. Rod & Stay Clamps with 75x40xmm M.S. Channel .Weight of the materials = 7.6 Kgs | EA | CSR00279 | 156.00 |
| 41.6.5 | M.S. Stay sets with 16mm M.S. Rod & Stay Clamps with 50x50x6mm M.S. Angle – Weight of the materials = 6.3 Kgs | EA | CSR00280 | 135.00 |
| 41.7 | 33KV Top Fitting | | | |
| 41.7.1 | 33KV Top Fitting with Clamps with 75x40mm M.S. Channel . Weight of the materials = 6.9 Kgs. | EA | CSR00281 | 68.00 |
| 41.7.2 | 33KV Top Fitting with Clamps with 65x65x6mm M.S. angle . Weight of the materials = 6.5 Kgs. | EA | CSR00282 | 98.00 |

| | | | | |
|---------|---|----|----------|--------|
| 41.8 | 11KV Top Fittings | | | |
| 41.8.1 | 11KV Top Fittings with Clamps 65x65x6mm M.S. Angle – Weight of the materials = 4.4 Kgs. | EA | CSR00283 | 105.00 |
| 41.8.2 | 11KV Top Fittings with Clamps 50x50x6mm M.S. Angle . Weight of the materials = 3.63Kgs. | EA | CSR00284 | 86.00 |
| 41.8.3 | 11KV Special Top Fittings with Clamps (2'.0" Height) 50x50x6mm M.S. Angle – Weight of the materials = 3.6Kgs. | EA | CSR00285 | 86.00 |
| 41.9 | LT Top Fittings with Clamps 50x6mm M.S. Flat – Weight of the materials = 2.4 Kgs. | EA | CSR00286 | 57.00 |
| 41.10 | 11KV Tapping Cross arms with (5.6") 100x50mm M.S. Channel – Weight of the materials =13.4 Kgs | EA | CSR00287 | 108.00 |
| 41.11 | 11KV Tapping Cross arms with (5.6") 75x40mm M.S. Channel – Weight of the materials = 11.2 Kgs. | EA | CSR00288 | 158.00 |
| 41.12 | 33KV Tapping Cross arms with (7'.0") 100x50mm M.S. Channel – Weight of the materials = 16.2 Kgs. | EA | CSR00289 | 108.00 |
| 41.13 | HT/LT Side arms with strut- (7'.6") 75x40mm M.S. Channel, (3'.6") 50x50x6mm M.S. Angle, (7'.6") 50x50x6mm M.S. Angle, (3'.0") 50x50x6mm M.S. Angle – Weight of the materials = 37.600Kgs. | EA | CSR00290 | 179.00 |
| 41.14 | LT Side arms with strut - (5'.6") 50x50x6mm M.S. Angle, (6'.0") 50x50x6mm M.S. Angle – Weight of the materials = 15.600Kgs. | EA | CSR00291 | 259.00 |
| 41.15 | M.S Back Clamps (1'.3") | | | |
| 41.15.1 | With 50x6mm M.S. Flat for 8m/140 Kg Pole – Weight of the materials = 0.84 Kgs. | EA | CSR00292 | 26.00 |
| 41.15.2 | With 50x6mm M.S. Flat for 8m/200 Kg Pole – Weight of the materials = 0.924 Kgs. | EA | CSR00293 | 26.00 |

| | | | | |
|---------|---|------|----------|--------|
| 41.15.3 | With 75x8mm M.S. Flat for 9.1m/280 Kg Pole – Weight of the materials = 2.17 Kgs. | EA | CSR00294 | 28.00 |
| 41.16 | M.S. Stay Clamps (1'.1" X 2Nos.)- 50x6mm M.S. Flat – Weight of the materials = 1.640Kgs. | | | |
| 41.16.1 | For 8m/140 Kg Pole – Weight of the materials = 1.38 Kgs. | EA | CSR00295 | 43.00 |
| 41.16.2 | For 8m/200 Kg Pole – Weight of the materials = 1.416 Kgs. | EA | CSR00296 | 44.00 |
| 41.16.3 | For 9.1m/280 Kg Pole – Weight of the materials = 3.71 Kgs. | EA | CSR00297 | 53.00 |
| 41.17 | Pole mounting arrangement for 3.Phase 16/25 KVA DTR'S - (4'.0=2Nos.) 75x40mm M.S. Channel, (5'.0" =1No) 50x50x6mm M.S. Angle, (1'.6"=2Nos.)50x50x6mm M.S. Angle, (1'.1"=2Nos.)50x50x6mm M.S. Flat – Weight of the materials = 26Kgs | SET | CSR00298 | 390.00 |
| 41.18 | D.P. Structures total set- 10' – 2Nos. 100 x 50 MS Channel, 10' .2Nos. 50 x 50x 6 Angle, 3' – 3 Nos. 75 x 40 Channel, 2' – 4Nos. 50 x 6 MS Flat | SET | CSR00299 | 808.00 |
| 41.19 | Spun Pole Clamps | | | |
| 41.19.1 | i) Back Clamps | EA | CSR00300 | 47.00 |
| 41.19.2 | ii) Stay Clamps | EA | CSR00301 | 38.00 |
| 41.20 | Extension Pieces | EA | CSR00302 | |
| 41.21 | HT/LT Spun Pole mounting- 8' – 100 x 50 Channel, 21' – 65 x 65 Angle, 12' – 75 x 8 MS Flat | SET | CSR00303 | 545.00 |
| 41.22 | AB Switch OFF & ON Base with Clamp | SET | CSR00304 | 93.00 |
| | WELDING CHARGES | | | |
| 42.1 | ARC WELDING charges for all steel materials to a length of 25 mm.(1") of weld including cost of power and electrodes. | | | |
| 42.1.1 | Double welding | 25mm | CSR00305 | 17.00 |
| 42.1.2 | Single welding | 25mm | CSR00306 | 10.00 |
| 42.2 | GAS WELDING charges for all steel materials to a length of 25 mm.(1") of weld including cost of gas | 25mm | CSR00307 | 18.00 |

| | | | | |
|------|--|------|----------|----------|
| 43 | GAS CUTTING | 25mm | CSR00308 | 9.00 |
| | Other Items | | | |
| 44 | Labour charges for erection / fixing of heavy steel structures, like M+3, M+6, M+9 and M+12 towers , Trusses erecting in position and fixing by using chain pulley blocks, Derek pole arrangements and cranes etc., complete in position | 1MT | CSR00309 | 10522.00 |
| 44.1 | M+3 Tower Light(2.02MT) | 1 No | CSR00310 | 21255.00 |
| 44.2 | M+3 Tower Heavy(2.4MT) | 1 No | CSR00311 | 25254.00 |
| 44.3 | M+6 Tower Light(2.4MT) | 1 No | CSR00312 | 25254.00 |
| 44.4 | M+6 Tower Heavy(2.8MT) | 1 No | CSR00313 | 29462.00 |
| 44.5 | M+9 Tower Light(2.8MT) | 1 No | CSR00314 | 29462.00 |
| 44.6 | M+9 Tower Heavy(3.4MT) | 1 No | CSR00315 | 35776.00 |
| 44.7 | M+12 Tower Light(3.2MT) | 1 No | CSR00316 | 33672.00 |
| 44.8 | M+12 Tower Heavy(4MT) | 1 No | CSR00317 | 42089.00 |
| 45 | Providing of trenchless digging with HDD (Horizontal Directional Drilling) method for laying & installation of HT or LT lines using XLPE UG Cables | | | |
| 45.1 | 33KV 400 sqmm | RM | CSR00318 | 1088.00 |
| 45.2 | 11KV 300 sqmm | RM | CSR00319 | 970.00 |
| 45.3 | 11KV 185 sqmm | RM | CSR00320 | 857.00 |

46 Transport/ conveyance/ Lead charges

| | |
|----|---|
| 1) | The following rates are to be adopted for transport of materials like Steel, RCC Poles, Cement, Packed materials excluding loading and unloading. |
| 2) | However, for transport of conductor drums, transformer oil drums, and fragile materials such as kiosks, L.As, Insulators, Transformers, Meters etc., which occupy more space and less weight, the rates with 20% excess over the following rates for line materials shall be adopted. |
| 3) | Loading and unloading charges are payable extra. |
| 4) | Transport charges in respect of poles up to 5 KM, SSR item 10 may be adopted. |

| 1Km to 35Km | | | 36Km to 70Km | | | 71Km to 105Km | | |
|------------------|------------|----------|------------------|------------|----------|------------------|------------|----------|
| SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT |
| CTR00001 | 1 | 27 | CTR00036 | 36 | 403 | CTR00071 | 71 | 722 |
| CTR00002 | 2 | 37 | CTR00037 | 37 | 411 | CTR00072 | 72 | 732 |
| CTR00003 | 3 | 51 | CTR00038 | 38 | 421 | CTR00073 | 73 | 741 |
| CTR00004 | 4 | 62 | CTR00039 | 39 | 430 | CTR00074 | 74 | 750 |
| CTR00005 | 5 | 73 | CTR00040 | 40 | 439 | CTR00075 | 75 | 759 |
| CTR00006 | 6 | 84 | CTR00041 | 41 | 448 | CTR00076 | 76 | 768 |
| CTR00007 | 7 | 95 | CTR00042 | 42 | 458 | CTR00077 | 77 | 777 |
| CTR00008 | 8 | 105 | CTR00043 | 43 | 466 | CTR00078 | 78 | 787 |
| CTR00009 | 9 | 117 | CTR00044 | 44 | 476 | CTR00079 | 79 | 795 |
| CTR00010 | 10 | 128 | CTR00045 | 45 | 485 | CTR00080 | 80 | 805 |
| CTR00011 | 11 | 139 | CTR00046 | 46 | 494 | CTR00081 | 81 | 814 |
| CTR00012 | 12 | 150 | CTR00047 | 47 | 504 | CTR00082 | 82 | 823 |
| CTR00013 | 13 | 161 | CTR00048 | 48 | 512 | CTR00083 | 83 | 832 |
| CTR00014 | 14 | 172 | CTR00049 | 49 | 522 | CTR00084 | 84 | 841 |
| CTR00015 | 15 | 183 | CTR00050 | 50 | 530 | CTR00085 | 85 | 850 |
| CTR00016 | 16 | 194 | CTR00051 | 51 | 540 | CTR00086 | 86 | 860 |
| CTR00017 | 17 | 205 | CTR00052 | 52 | 549 | CTR00087 | 87 | 868 |
| CTR00018 | 18 | 216 | CTR00053 | 53 | 558 | CTR00088 | 88 | 878 |
| CTR00019 | 19 | 227 | CTR00054 | 54 | 567 | CTR00089 | 89 | 887 |
| CTR00020 | 20 | 238 | CTR00055 | 55 | 577 | CTR00090 | 90 | 896 |
| CTR00021 | 21 | 249 | CTR00056 | 56 | 585 | CTR00091 | 91 | 905 |
| CTR00022 | 22 | 260 | CTR00057 | 57 | 595 | CTR00092 | 92 | 914 |
| CTR00023 | 23 | 271 | CTR00058 | 58 | 603 | CTR00093 | 93 | 923 |
| CTR00024 | 24 | 282 | CTR00059 | 59 | 613 | CTR00094 | 94 | 933 |
| CTR00025 | 25 | 293 | CTR00060 | 60 | 622 | CTR00095 | 95 | 941 |
| CTR00026 | 26 | 304 | CTR00061 | 61 | 631 | CTR00096 | 96 | 951 |
| CTR00027 | 27 | 314 | CTR00062 | 62 | 640 | CTR00097 | 97 | 960 |
| CTR00028 | 28 | 326 | CTR00063 | 63 | 649 | CTR00098 | 98 | 969 |
| CTR00029 | 29 | 337 | CTR00064 | 64 | 658 | CTR00099 | 99 | 979 |
| CTR00030 | 30 | 348 | CTR00065 | 65 | 668 | CTR00100 | 100 | 987 |
| CTR00031 | 31 | 357 | CTR00066 | 66 | 676 | CTR00101 | 101 | 997 |
| CTR00032 | 32 | 366 | CTR00067 | 67 | 686 | CTR00102 | 102 | 1,006 |
| CTR00033 | 33 | 375 | CTR00068 | 68 | 695 | CTR00103 | 103 | 1,015 |
| CTR00034 | 34 | 385 | CTR00069 | 69 | 704 | CTR00104 | 104 | 1,024 |
| CTR00035 | 35 | 393 | CTR00070 | 70 | 713 | CTR00105 | 105 | 1,033 |

| 106Km to 140Km | | | 141Km to 175Km | | | 176Km to 210Km | | |
|------------------|------------|----------|------------------|------------|----------|------------------|------------|----------|
| SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT |
| CTR00106 | 106 | 1,042 | CTR00141 | 141 | 1,362 | CTR00176 | 176 | 1,682 |
| CTR00107 | 107 | 1,052 | CTR00142 | 142 | 1,371 | CTR00177 | 177 | 1,691 |
| CTR00108 | 108 | 1,060 | CTR00143 | 143 | 1,380 | CTR00178 | 178 | 1,700 |
| CTR00109 | 109 | 1,070 | CTR00144 | 144 | 1,389 | CTR00179 | 179 | 1,709 |
| CTR00110 | 110 | 1,078 | CTR00145 | 145 | 1,398 | CTR00180 | 180 | 1,719 |
| CTR00111 | 111 | 1,088 | CTR00146 | 146 | 1,408 | CTR00181 | 181 | 1,727 |
| CTR00112 | 112 | 1,097 | CTR00147 | 147 | 1,416 | CTR00182 | 182 | 1,737 |
| CTR00113 | 113 | 1,106 | CTR00148 | 148 | 1,426 | CTR00183 | 183 | 1,745 |
| CTR00114 | 114 | 1,115 | CTR00149 | 149 | 1,435 | CTR00184 | 184 | 1,755 |
| CTR00115 | 115 | 1,125 | CTR00150 | 150 | 1,444 | CTR00185 | 185 | 1,764 |
| CTR00116 | 116 | 1,133 | CTR00151 | 151 | 1,454 | CTR00186 | 186 | 1,773 |
| CTR00117 | 117 | 1,143 | CTR00152 | 152 | 1,462 | CTR00187 | 187 | 1,782 |
| CTR00118 | 118 | 1,151 | CTR00153 | 153 | 1,472 | CTR00188 | 188 | 1,792 |
| CTR00119 | 119 | 1,161 | CTR00154 | 154 | 1,481 | CTR00189 | 189 | 1,800 |
| CTR00120 | 120 | 1,170 | CTR00155 | 155 | 1,490 | CTR00190 | 190 | 1,810 |
| CTR00121 | 121 | 1,179 | CTR00156 | 156 | 1,499 | CTR00191 | 191 | 1,818 |
| CTR00122 | 122 | 1,188 | CTR00157 | 157 | 1,508 | CTR00192 | 192 | 1,828 |
| CTR00123 | 123 | 1,197 | CTR00158 | 158 | 1,517 | CTR00193 | 193 | 1,837 |
| CTR00124 | 124 | 1,207 | CTR00159 | 159 | 1,527 | CTR00194 | 194 | 1,846 |
| CTR00125 | 125 | 1,216 | CTR00160 | 160 | 1,535 | CTR00195 | 195 | 1,855 |
| CTR00126 | 126 | 1,225 | CTR00161 | 161 | 1,545 | CTR00196 | 196 | 1,865 |
| CTR00127 | 127 | 1,234 | CTR00162 | 162 | 1,554 | CTR00197 | 197 | 1,873 |
| CTR00128 | 128 | 1,244 | CTR00163 | 163 | 1,563 | CTR00198 | 198 | 1,883 |
| CTR00129 | 129 | 1,252 | CTR00164 | 164 | 1,572 | CTR00199 | 199 | 1,891 |
| CTR00130 | 130 | 1,262 | CTR00165 | 165 | 1,581 | CTR00200 | 200 | 1,901 |
| CTR00131 | 131 | 1,270 | CTR00166 | 166 | 1,590 | CTR00201 | 201 | 1,910 |
| CTR00132 | 132 | 1,280 | CTR00167 | 167 | 1,600 | CTR00202 | 202 | 1,919 |
| CTR00133 | 133 | 1,289 | CTR00168 | 168 | 1,608 | CTR00203 | 203 | 1,929 |
| CTR00134 | 134 | 1,298 | CTR00169 | 169 | 1,618 | CTR00204 | 204 | 1,937 |
| CTR00135 | 135 | 1,307 | CTR00170 | 170 | 1,626 | CTR00205 | 205 | 1,947 |
| CTR00136 | 136 | 1,317 | CTR00171 | 171 | 1,636 | CTR00206 | 206 | 1,956 |
| CTR00137 | 137 | 1,325 | CTR00172 | 172 | 1,645 | CTR00207 | 207 | 1,965 |
| CTR00138 | 138 | 1,335 | CTR00173 | 173 | 1,654 | CTR00208 | 208 | 1,974 |
| CTR00139 | 139 | 1,343 | CTR00174 | 174 | 1,663 | CTR00209 | 209 | 1,984 |
| CTR00140 | 140 | 1,353 | CTR00175 | 175 | 1,673 | CTR00210 | 210 | 1,992 |

| 211Km to 245Km | | | 246Km to 280Km | | | 281Km to 315Km | | |
|------------------|------------|----------|------------------|------------|----------|------------------|------------|----------|
| SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT |
| CTR00211 | 211 | 2,002 | CTR00246 | 246 | 2,321 | CTR00281 | 281 | 2,641 |
| CTR00212 | 212 | 2,010 | CTR00247 | 247 | 2,330 | CTR00282 | 282 | 2,651 |
| CTR00213 | 213 | 2,020 | CTR00248 | 248 | 2,340 | CTR00283 | 283 | 2,659 |
| CTR00214 | 214 | 2,029 | CTR00249 | 249 | 2,348 | CTR00284 | 284 | 2,669 |
| CTR00215 | 215 | 2,038 | CTR00250 | 250 | 2,358 | CTR00285 | 285 | 2,677 |
| CTR00216 | 216 | 2,047 | CTR00251 | 251 | 2,366 | CTR00286 | 286 | 2,687 |
| CTR00217 | 217 | 2,056 | CTR00252 | 252 | 2,376 | CTR00287 | 287 | 2,696 |
| CTR00218 | 218 | 2,065 | CTR00253 | 253 | 2,385 | CTR00288 | 288 | 2,705 |
| CTR00219 | 219 | 2,075 | CTR00254 | 254 | 2,394 | CTR00289 | 289 | 2,714 |
| CTR00220 | 220 | 2,083 | CTR00255 | 255 | 2,404 | CTR00290 | 290 | 2,724 |
| CTR00221 | 221 | 2,093 | CTR00256 | 256 | 2,413 | CTR00291 | 291 | 2,732 |
| CTR00222 | 222 | 2,102 | CTR00257 | 257 | 2,422 | CTR00292 | 292 | 2,742 |
| CTR00223 | 223 | 2,111 | CTR00258 | 258 | 2,431 | CTR00293 | 293 | 2,750 |
| CTR00224 | 224 | 2,120 | CTR00259 | 259 | 2,440 | CTR00294 | 294 | 2,760 |
| CTR00225 | 225 | 2,129 | CTR00260 | 260 | 2,449 | CTR00295 | 295 | 2,769 |
| CTR00226 | 226 | 2,138 | CTR00261 | 261 | 2,459 | CTR00296 | 296 | 2,778 |
| CTR00227 | 227 | 2,148 | CTR00262 | 262 | 2,467 | CTR00297 | 297 | 2,787 |
| CTR00228 | 228 | 2,157 | CTR00263 | 263 | 2,477 | CTR00298 | 298 | 2,796 |
| CTR00229 | 229 | 2,166 | CTR00264 | 264 | 2,485 | CTR00299 | 299 | 2,805 |
| CTR00230 | 230 | 2,175 | CTR00265 | 265 | 2,495 | CTR00300 | 300 | 2,815 |
| CTR00231 | 231 | 2,184 | CTR00266 | 266 | 2,504 | CTR00301 | 301 | 2,823 |
| CTR00232 | 232 | 2,194 | CTR00267 | 267 | 2,513 | CTR00302 | 302 | 2,833 |
| CTR00233 | 233 | 2,202 | CTR00268 | 268 | 2,522 | CTR00303 | 303 | 2,842 |
| CTR00234 | 234 | 2,212 | CTR00269 | 269 | 2,532 | CTR00304 | 304 | 2,851 |
| CTR00235 | 235 | 2,221 | CTR00270 | 270 | 2,540 | CTR00305 | 305 | 2,860 |
| CTR00236 | 236 | 2,230 | CTR00271 | 271 | 2,550 | CTR00306 | 306 | 2,869 |
| CTR00237 | 237 | 2,239 | CTR00272 | 272 | 2,558 | CTR00307 | 307 | 2,879 |
| CTR00238 | 238 | 2,248 | CTR00273 | 273 | 2,568 | CTR00308 | 308 | 2,888 |
| CTR00239 | 239 | 2,257 | CTR00274 | 274 | 2,577 | CTR00309 | 309 | 2,897 |
| CTR00240 | 240 | 2,267 | CTR00275 | 275 | 2,586 | CTR00310 | 310 | 2,906 |
| CTR00241 | 241 | 2,275 | CTR00276 | 276 | 2,595 | CTR00311 | 311 | 2,915 |
| CTR00242 | 242 | 2,285 | CTR00277 | 277 | 2,604 | CTR00312 | 312 | 2,924 |
| CTR00243 | 243 | 2,294 | CTR00278 | 278 | 2,613 | CTR00313 | 313 | 2,934 |
| CTR00244 | 244 | 2,303 | CTR00279 | 279 | 2,623 | CTR00314 | 314 | 2,942 |
| CTR00245 | 245 | 2,312 | CTR00280 | 280 | 2,632 | CTR00315 | 315 | 2,952 |

| 316Km to 350Km | | | 351Km to 385Km | | | 386Km to 420Km | | |
|------------------|------------|----------|------------------|------------|----------|------------------|------------|----------|
| SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT |
| CTR00316 | 316 | 2,961 | CTR00351 | 351 | 3,280 | CTR00386 | 386 | 3,601 |
| CTR00317 | 317 | 2,970 | CTR00352 | 352 | 3,290 | CTR00387 | 387 | 3,609 |
| CTR00318 | 318 | 2,979 | CTR00353 | 353 | 3,298 | CTR00388 | 388 | 3,619 |
| CTR00319 | 319 | 2,988 | CTR00354 | 354 | 3,308 | CTR00389 | 389 | 3,628 |
| CTR00320 | 320 | 2,997 | CTR00355 | 355 | 3,317 | CTR00390 | 390 | 3,637 |
| CTR00321 | 321 | 3,007 | CTR00356 | 356 | 3,326 | CTR00391 | 391 | 3,646 |
| CTR00322 | 322 | 3,015 | CTR00357 | 357 | 3,335 | CTR00392 | 392 | 3,655 |
| CTR00323 | 323 | 3,025 | CTR00358 | 358 | 3,344 | CTR00393 | 393 | 3,664 |
| CTR00324 | 324 | 3,033 | CTR00359 | 359 | 3,354 | CTR00394 | 394 | 3,674 |
| CTR00325 | 325 | 3,043 | CTR00360 | 360 | 3,363 | CTR00395 | 395 | 3,682 |
| CTR00326 | 326 | 3,052 | CTR00361 | 361 | 3,372 | CTR00396 | 396 | 3,692 |
| CTR00327 | 327 | 3,061 | CTR00362 | 362 | 3,381 | CTR00397 | 397 | 3,701 |
| CTR00328 | 328 | 3,070 | CTR00363 | 363 | 3,391 | CTR00398 | 398 | 3,710 |
| CTR00329 | 329 | 3,080 | CTR00364 | 364 | 3,399 | CTR00399 | 399 | 3,719 |
| CTR00330 | 330 | 3,088 | CTR00365 | 365 | 3,409 | CTR00400 | 400 | 3,728 |
| CTR00331 | 331 | 3,098 | CTR00366 | 366 | 3,417 | CTR00401 | 401 | 3,737 |
| CTR00332 | 332 | 3,107 | CTR00367 | 367 | 3,427 | CTR00402 | 402 | 3,747 |
| CTR00333 | 333 | 3,116 | CTR00368 | 368 | 3,436 | CTR00403 | 403 | 3,755 |
| CTR00334 | 334 | 3,126 | CTR00369 | 369 | 3,445 | CTR00404 | 404 | 3,765 |
| CTR00335 | 335 | 3,134 | CTR00370 | 370 | 3,454 | CTR00405 | 405 | 3,773 |
| CTR00336 | 336 | 3,144 | CTR00371 | 371 | 3,463 | CTR00406 | 406 | 3,783 |
| CTR00337 | 337 | 3,153 | CTR00372 | 372 | 3,472 | CTR00407 | 407 | 3,792 |
| CTR00338 | 338 | 3,162 | CTR00373 | 373 | 3,482 | CTR00408 | 408 | 3,801 |
| CTR00339 | 339 | 3,171 | CTR00374 | 374 | 3,490 | CTR00409 | 409 | 3,810 |
| CTR00340 | 340 | 3,180 | CTR00375 | 375 | 3,500 | CTR00410 | 410 | 3,820 |
| CTR00341 | 341 | 3,189 | CTR00376 | 376 | 3,509 | CTR00411 | 411 | 3,829 |
| CTR00342 | 342 | 3,199 | CTR00377 | 377 | 3,518 | CTR00412 | 412 | 3,838 |
| CTR00343 | 343 | 3,207 | CTR00378 | 378 | 3,527 | CTR00413 | 413 | 3,847 |
| CTR00344 | 344 | 3,217 | CTR00379 | 379 | 3,536 | CTR00414 | 414 | 3,856 |
| CTR00345 | 345 | 3,225 | CTR00380 | 380 | 3,545 | CTR00415 | 415 | 3,866 |
| CTR00346 | 346 | 3,235 | CTR00381 | 381 | 3,555 | CTR00416 | 416 | 3,874 |
| CTR00347 | 347 | 3,244 | CTR00382 | 382 | 3,563 | CTR00417 | 417 | 3,884 |
| CTR00348 | 348 | 3,253 | CTR00383 | 383 | 3,573 | CTR00418 | 418 | 3,892 |
| CTR00349 | 349 | 3,262 | CTR00384 | 384 | 3,582 | CTR00419 | 419 | 3,902 |
| CTR00350 | 350 | 3,272 | CTR00385 | 385 | 3,591 | CTR00420 | 420 | 3,911 |

| 421Km to 455Km | | | 456Km to 490Km | | | 491Km to 525Km | | |
|------------------|------------|----------|------------------|------------|----------|------------------|------------|----------|
| SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT |
| CTR00421 | 421 | 3,920 | CTR00456 | 456 | 4,240 | CTR00491 | 491 | 4,560 |
| CTR00422 | 422 | 3,929 | CTR00457 | 457 | 4,249 | CTR00492 | 492 | 4,569 |
| CTR00423 | 423 | 3,939 | CTR00458 | 458 | 4,258 | CTR00493 | 493 | 4,578 |
| CTR00424 | 424 | 3,947 | CTR00459 | 459 | 4,267 | CTR00494 | 494 | 4,587 |
| CTR00425 | 425 | 3,957 | CTR00460 | 460 | 4,276 | CTR00495 | 495 | 4,596 |
| CTR00426 | 426 | 3,965 | CTR00461 | 461 | 4,285 | CTR00496 | 496 | 4,606 |
| CTR00427 | 427 | 3,975 | CTR00462 | 462 | 4,295 | CTR00497 | 497 | 4,614 |
| CTR00428 | 428 | 3,984 | CTR00463 | 463 | 4,304 | CTR00498 | 498 | 4,624 |
| CTR00429 | 429 | 3,993 | CTR00464 | 464 | 4,313 | CTR00499 | 499 | 4,632 |
| CTR00430 | 430 | 4,002 | CTR00465 | 465 | 4,322 | CTR00500 | 500 | 4,642 |
| CTR00431 | 431 | 4,012 | CTR00466 | 466 | 4,331 | CTR00501 | 501 | 4,651 |
| CTR00432 | 432 | 4,020 | CTR00467 | 467 | 4,341 | CTR00502 | 502 | 4,660 |
| CTR00433 | 433 | 4,030 | CTR00468 | 468 | 4,349 | CTR00503 | 503 | 4,669 |
| CTR00434 | 434 | 4,038 | CTR00469 | 469 | 4,359 | CTR00504 | 504 | 4,679 |
| CTR00435 | 435 | 4,048 | CTR00470 | 470 | 4,368 | CTR00505 | 505 | 4,687 |
| CTR00436 | 436 | 4,057 | CTR00471 | 471 | 4,377 | CTR00506 | 506 | 4,697 |
| CTR00437 | 437 | 4,066 | CTR00472 | 472 | 4,386 | CTR00507 | 507 | 4,705 |
| CTR00438 | 438 | 4,076 | CTR00473 | 473 | 4,395 | CTR00508 | 508 | 4,715 |
| CTR00439 | 439 | 4,084 | CTR00474 | 474 | 4,404 | CTR00509 | 509 | 4,724 |
| CTR00440 | 440 | 4,094 | CTR00475 | 475 | 4,414 | CTR00510 | 510 | 4,733 |
| CTR00441 | 441 | 4,103 | CTR00476 | 476 | 4,422 | CTR00511 | 511 | 4,742 |
| CTR00442 | 442 | 4,112 | CTR00477 | 477 | 4,432 | CTR00512 | 512 | 4,751 |
| CTR00443 | 443 | 4,121 | CTR00478 | 478 | 4,441 | CTR00513 | 513 | 4,760 |
| CTR00444 | 444 | 4,131 | CTR00479 | 479 | 4,450 | CTR00514 | 514 | 4,770 |
| CTR00445 | 445 | 4,139 | CTR00480 | 480 | 4,459 | CTR00515 | 515 | 4,779 |
| CTR00446 | 446 | 4,149 | CTR00481 | 481 | 4,468 | CTR00516 | 516 | 4,788 |
| CTR00447 | 447 | 4,157 | CTR00482 | 482 | 4,477 | CTR00517 | 517 | 4,798 |
| CTR00448 | 448 | 4,167 | CTR00483 | 483 | 4,487 | CTR00518 | 518 | 4,806 |
| CTR00449 | 449 | 4,176 | CTR00484 | 484 | 4,495 | CTR00519 | 519 | 4,816 |
| CTR00450 | 450 | 4,185 | CTR00485 | 485 | 4,505 | CTR00520 | 520 | 4,824 |
| CTR00451 | 451 | 4,194 | CTR00486 | 486 | 4,513 | CTR00521 | 521 | 4,834 |
| CTR00452 | 452 | 4,203 | CTR00487 | 487 | 4,523 | CTR00522 | 522 | 4,843 |
| CTR00453 | 453 | 4,212 | CTR00488 | 488 | 4,532 | CTR00523 | 523 | 4,852 |
| CTR00454 | 454 | 4,222 | CTR00489 | 489 | 4,541 | CTR00524 | 524 | 4,861 |
| CTR00455 | 455 | 4,230 | CTR00490 | 490 | 4,551 | CTR00525 | 525 | 4,871 |

| 526Km to 560Km | | | 561Km to 595Km | | | 596Km to 630Km | | |
|------------------|------------|----------|------------------|------------|----------|------------------|------------|----------|
| SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT |
| CTR00526 | 526 | 4,879 | CTR00561 | 561 | 5,199 | CTR00596 | 596 | 5,519 |
| CTR00527 | 527 | 4,889 | CTR00562 | 562 | 5,208 | CTR00597 | 597 | 5,528 |
| CTR00528 | 528 | 4,897 | CTR00563 | 563 | 5,217 | CTR00598 | 598 | 5,538 |
| CTR00529 | 529 | 4,907 | CTR00564 | 564 | 5,227 | CTR00599 | 599 | 5,546 |
| CTR00530 | 530 | 4,916 | CTR00565 | 565 | 5,235 | CTR00600 | 600 | 5,556 |
| CTR00531 | 531 | 4,925 | CTR00566 | 566 | 5,245 | CTR00601 | 601 | 5,564 |
| CTR00532 | 532 | 4,934 | CTR00567 | 567 | 5,254 | CTR00602 | 602 | 5,574 |
| CTR00533 | 533 | 4,943 | CTR00568 | 568 | 5,263 | CTR00603 | 603 | 5,583 |
| CTR00534 | 534 | 4,952 | CTR00569 | 569 | 5,273 | CTR00604 | 604 | 5,592 |
| CTR00535 | 535 | 4,962 | CTR00570 | 570 | 5,281 | CTR00605 | 605 | 5,601 |
| CTR00536 | 536 | 4,970 | CTR00571 | 571 | 5,291 | CTR00606 | 606 | 5,610 |
| CTR00537 | 537 | 4,980 | CTR00572 | 572 | 5,300 | CTR00607 | 607 | 5,619 |
| CTR00538 | 538 | 4,989 | CTR00573 | 573 | 5,309 | CTR00608 | 608 | 5,629 |
| CTR00539 | 539 | 4,998 | CTR00574 | 574 | 5,318 | CTR00609 | 609 | 5,637 |
| CTR00540 | 540 | 5,007 | CTR00575 | 575 | 5,327 | CTR00610 | 610 | 5,647 |
| CTR00541 | 541 | 5,016 | CTR00576 | 576 | 5,336 | CTR00611 | 611 | 5,656 |
| CTR00542 | 542 | 5,026 | CTR00577 | 577 | 5,346 | CTR00612 | 612 | 5,665 |
| CTR00543 | 543 | 5,035 | CTR00578 | 578 | 5,354 | CTR00613 | 613 | 5,674 |
| CTR00544 | 544 | 5,044 | CTR00579 | 579 | 5,364 | CTR00614 | 614 | 5,683 |
| CTR00545 | 545 | 5,053 | CTR00580 | 580 | 5,372 | CTR00615 | 615 | 5,692 |
| CTR00546 | 546 | 5,062 | CTR00581 | 581 | 5,382 | CTR00616 | 616 | 5,702 |
| CTR00547 | 547 | 5,071 | CTR00582 | 582 | 5,391 | CTR00617 | 617 | 5,710 |
| CTR00548 | 548 | 5,081 | CTR00583 | 583 | 5,400 | CTR00618 | 618 | 5,720 |
| CTR00549 | 549 | 5,089 | CTR00584 | 584 | 5,409 | CTR00619 | 619 | 5,729 |
| CTR00550 | 550 | 5,099 | CTR00585 | 585 | 5,419 | CTR00620 | 620 | 5,738 |
| CTR00551 | 551 | 5,108 | CTR00586 | 586 | 5,427 | CTR00621 | 621 | 5,748 |
| CTR00552 | 552 | 5,117 | CTR00587 | 587 | 5,437 | CTR00622 | 622 | 5,756 |
| CTR00553 | 553 | 5,126 | CTR00588 | 588 | 5,445 | CTR00623 | 623 | 5,766 |
| CTR00554 | 554 | 5,135 | CTR00589 | 589 | 5,455 | CTR00624 | 624 | 5,775 |
| CTR00555 | 555 | 5,144 | CTR00590 | 590 | 5,464 | CTR00625 | 625 | 5,784 |
| CTR00556 | 556 | 5,154 | CTR00591 | 591 | 5,473 | CTR00626 | 626 | 5,793 |
| CTR00557 | 557 | 5,162 | CTR00592 | 592 | 5,482 | CTR00627 | 627 | 5,802 |
| CTR00558 | 558 | 5,172 | CTR00593 | 593 | 5,491 | CTR00628 | 628 | 5,811 |
| CTR00559 | 559 | 5,180 | CTR00594 | 594 | 5,501 | CTR00629 | 629 | 5,821 |
| CTR00560 | 560 | 5,190 | CTR00595 | 595 | 5,510 | CTR00630 | 630 | 5,829 |

| 631Km to 665Km | | | 666Km to 700Km | | |
|------------------|------------|----------|------------------|------------|----------|
| SAP Service code | Lead in KM | Rate/ MT | SAP Service code | Lead in KM | Rate/ MT |
| CTR00631 | 631 | 5,839 | CTR00666 | 666 | 6,159 |
| CTR00632 | 632 | 5,848 | CTR00667 | 667 | 6,167 |
| CTR00633 | 633 | 5,857 | CTR00668 | 668 | 6,177 |
| CTR00634 | 634 | 5,866 | CTR00669 | 669 | 6,185 |
| CTR00635 | 635 | 5,875 | CTR00670 | 670 | 6,195 |
| CTR00636 | 636 | 5,884 | CTR00671 | 671 | 6,204 |
| CTR00637 | 637 | 5,894 | CTR00672 | 672 | 6,213 |
| CTR00638 | 638 | 5,902 | CTR00673 | 673 | 6,223 |
| CTR00639 | 639 | 5,912 | CTR00674 | 674 | 6,231 |
| CTR00640 | 640 | 5,920 | CTR00675 | 675 | 6,241 |
| CTR00641 | 641 | 5,930 | CTR00676 | 676 | 6,250 |
| CTR00642 | 642 | 5,939 | CTR00677 | 677 | 6,259 |
| CTR00643 | 643 | 5,948 | CTR00678 | 678 | 6,268 |
| CTR00644 | 644 | 5,957 | CTR00679 | 679 | 6,278 |
| CTR00645 | 645 | 5,967 | CTR00680 | 680 | 6,286 |
| CTR00646 | 646 | 5,976 | CTR00681 | 681 | 6,296 |
| CTR00647 | 647 | 5,985 | CTR00682 | 682 | 6,304 |
| CTR00648 | 648 | 5,994 | CTR00683 | 683 | 6,314 |
| CTR00649 | 649 | 6,003 | CTR00684 | 684 | 6,323 |
| CTR00650 | 650 | 6,013 | CTR00685 | 685 | 6,332 |
| CTR00651 | 651 | 6,021 | CTR00686 | 686 | 6,341 |
| CTR00652 | 652 | 6,031 | CTR00687 | 687 | 6,350 |
| CTR00653 | 653 | 6,039 | CTR00688 | 688 | 6,359 |
| CTR00654 | 654 | 6,049 | CTR00689 | 689 | 6,369 |
| CTR00655 | 655 | 6,058 | CTR00690 | 690 | 6,377 |
| CTR00656 | 656 | 6,067 | CTR00691 | 691 | 6,387 |
| CTR00657 | 657 | 6,076 | CTR00692 | 692 | 6,396 |
| CTR00658 | 658 | 6,086 | CTR00693 | 693 | 6,405 |
| CTR00659 | 659 | 6,094 | CTR00694 | 694 | 6,414 |
| CTR00660 | 660 | 6,104 | CTR00695 | 695 | 6,423 |
| CTR00661 | 661 | 6,112 | CTR00696 | 696 | 6,432 |
| CTR00662 | 662 | 6,122 | CTR00697 | 697 | 6,442 |
| CTR00663 | 663 | 6,131 | CTR00698 | 698 | 6,451 |
| CTR00664 | 664 | 6,140 | CTR00699 | 699 | 6,460 |
| CTR00665 | 665 | 6,149 | CTR00700 | 700 | 6,469 |

47. New items added to the SSR 2021-22.

| SL No | Description of work | Unit | SAP Code | Rate |
|--------|--|----------|----------|------|
| 47.1 | Excavation of stay pit of size 0.6 x 0.6 x 1.34 Mts. in all soils except Hard Garvel, Hard Murram HDR and HR requiring blasting and back filling. | Per Pit | CSR00321 | 274 |
| 47.2 | Excavation of stay pit size 0.45 x 0.45 x 1.34 Mts. In all soils except hard murrum and disintegrated rock which requires blasting | Per Pit | CSR00322 | 154 |
| 47.3 | Excavation of pole pit in all soils with pole digging machine | per pit | CSR00323 | 389 |
| 47.4 | Labour charges for erection of LT Dist. Box including earthing as per departmental standards. | Each | CSR00324 | 288 |
| 47.5 | Fixing of Stay clamp set (dummy clamp set) for SPUN poles | Set | CSR00325 | 48 |
| 47.6 | Fixing of CI Knob | Each | CSR00326 | 15 |
| 47.7 | Erection of HG Fuse Sets / AB Switches / Equipment | | | |
| 47.7.1 | Erection of 1-Ph 11KV AB Switch, Operating rod | EA | CSR00327 | 530 |
| 47.7.2 | Erection of 1-Ph 11KV HG Fuse Set | EA | CSR00328 | 251 |
| 47.8 | Labour charges for erection of SP Structure (seating arrangement) complete for mounting 3- Ph Transformer including earthing as per departmental standards. | Each | CSR00329 | 738 |
| 47.9 | Labour charges for erection of SP Structure (seating arrangement) complete for mounting S- Ph Transformer including earthing as per departmental standards. | Each | CSR00330 | 492 |
| 47.10 | Running of separate earth with 25x4mm GI/ Copper earth flat from transformer neutral bushing to the earth pipe. | RMT | CSR00331 | 16 |
| 47.11 | Construction of fencing around the DTR's duly executing 0.50 x 0.50 earth work, PCC (1:4:8) 6", and providing fly ash brick masonry with CM (1:4) of size 0.4 x 0.80M, RCC jolies os size 2' x 3' of standard specification in betand providing of brick masonry column of size 9" x 9" x 2' height for every alternate single joli . The cost inclusive of all materials, leads with conveyance & labour and plastering and white washing with two coats. | Per Mete | CSR00332 | 4104 |

| | | | | |
|-------|--|--------------------------|----------|-------|
| 47.12 | Earth works excavation in all types of soils which can be excavated with pick areas and crowbars and do not require blazing in all conditions such as dry wet slushy etc. including shuttering and dewatering where ever necessary initial lead and one extra lift per cubic meter. | Per Cubic Meter | CSR00333 | 257 |
| 47.13 | Construction of Metering cubicle plinth (maintain 7 feet above the ground level) with first class bricks and with CM 1:5. by making provision for erection of HT metering arrangement and including plastering. | Per CFT | CSR00334 | 261 |
| 47.14 | Extension of existing 33KV bay including fabrication and erection of 3 Nos. structural supports (BF Beams150x150mm and drilling holes etc.) and structural members and seating channels (MS channel 100mmx50mm), formation of bus, jumpers connectivity with 200sq. Mm&100Sq. mm and earth flat raisers including bolt& nuts etc as per specification and drawing and two coats of aluminium paint of relevant Indian standard but excluding pit excavation, concreting and copings. | Each Bay | CSR00335 | 54754 |
| 47.15 | Extension of existing 11KV bay including fabrication and erection of 3 Nos. structural supports (BF Beams150x150mm and drilling holes etc.) and structural members and seating channels (MS channel 100mmx50mm), formation of bus, jumpers connectivity with 200sq. Mm&100Sq. mm and earth flat raisers including bolt& nuts etc as per specification and drawing and two coats of aluminium paint of relevant Indian standard but excluding pit excavation, concreting and copings. | Each Bay | CSR00336 | 40533 |
| 47.16 | Formation of 33KV & 11KV strung bus with 200 Sqmm panther conductor for each Phase including hoisting of Post type insulators and hardware, stretching of conductor and measuring, cutting, clamping of the conductor fixing of post type insulators to support the conductor where ever necessary and fixing of disc insulators. | Each Bay | CSR00337 | 5261 |
| 47.17 | Connecting equipment to bus and another equipment with single 200 Sqmm panther conductor including measuring cutting clamping and also fixing of post type insulators to support the conductor wherever necessary. | Each Jumper (Both sides) | CSR00338 | 204 |

| | | | | |
|-------|--|---------------|----------|-------|
| 47.18 | Labour Charges for providing 0.3x0.3x0.3 Mts. coping including muffing to all varieties to supports with C.C (1:4:8) mix with 10-20mm HBG metal plastering etc., including cost of cement, watering as per departmental standards including transport of materials to location upto a maximum distance of 1.5 KM (Excluding pit excavation) | Each Loc | CSR00339 | 337 |
| 47.19 | Labour charges for providing sleeve concreting of size 2'x2'x2'6" coping and muffing to all varieties of supports with CC (1:3:6) as per the departmental standards including cost of HBG metal 12 to 20mm, sand transport to location including cost of cement etc. | Each pit | CSR00340 | 2577 |
| 47.20 | Base concreting of BF beam locations with 1:3:6 CC mix using 20 mm HBG metal to a height of 0.15 meters (0.96x0.96x0.15M) and concreting of BF Beam locations with 1:3:6 CC mix using 40 mm HBG metal (0.76x0.76x1.35M) including cost of excavation in all types of soils, including shoring, shuttering and dewatering wherever necessary covering all leads & lifts and including plastering the location with 12 mm thick CM (1:5) and white washing with cement paint including cost of cement, sand, paints etc. as per Technical specification. | Each Location | CSR00341 | 5765 |
| 47.21 | Laying of foundation plinths for 11 KV VCB with CTs and panel including shorting, shuttering, dewatering the pits before and during the process of laying cement concrete 1:3:6 with 20 mm HBG metal (1.5x1.5x0.2 (base) + 0.3 (top) and concreting 1:3:6 with 40MM HBG metal (1.5x1.5x0.6)) and plastering the foundation plinths with 12 mm thickness and white washing with cement paint including cost of cement, sand & paint etc., as per technical specification. | Each Plinth | CSR00342 | 17052 |
| 47.22 | Providing of Labour charges for Turning Power Transformer on the plinth for 180/90 deg by using rail poles, jacks & Chain blocks upto 10MVA. | Each | CSR00343 | 2459 |
| 47.23 | Raising /Lowering the Power Transformers up to 10MVACapacity | Each | CSR00344 | 2705 |
| 47.24 | Erection, Testing and Commissioning of new 11KV PT as per the Technical specification. (1 No 3-Ph PT) | Each | CSR00345 | 4400 |
| 47.25 | Erection, Testing and Commissioning of new 33KV PTs as per the Technical specification. (set of 3 Nos. S-Ph PTs) | set / each | CSR00346 | 4400 |
| 47.26 | Erection of 105 lb Rail poles 3 Mt. Long for mounting of PTR on plinth | Each | CSR00347 | 304 |
| 47.27 | Erection of 33KV post type/ solid core insulators | Each | CSR00348 | 290 |
| 47.28 | Erection of 11KV post type/ solid core insulators | Each | CSR00349 | 145 |

| | | | | |
|---------|--|-------------|----------|------|
| 47.29 | Fixing of Aluminium T-Clamps / AB Switch Pad clamps/ Bus Bar clamps | Each | CSR00350 | 24 |
| 47.30 | Connecting body of equipment structures to earth pits by earth mat with 50x6mm MS Flat (raisers) including welding , bending or connections per RMT | RMT | CSR00351 | 57 |
| 47.31 | Connecting of neutral of PTR to earth flat with 50*6 mm copper flexible jumpers using lugs and Bolt & Nut etc. | Each jumper | CSR00352 | 57 |
| 47.32 | Laying of control cables of all sizes (from 2 core. 2.5 /4.0sqmm to 12 core, 2.5/4.0sqmm , LT Power cables , both copper and aluminum in cable trenches including cost of suitable metallic cable glands with rubber lining. Note: This includes running of cables in control room where cables are run on cable racks in cable duct or in already excavated trench. | | | |
| 47.32.1 | Control cables from 2 core. 2.5 /4.0sqmm to 12 core, 2.5/4.0sqmm | RMT | CSR00353 | 14 |
| 47.32.2 | LT Power cables up to 50 Sqmm | RMT | CSR00354 | 19 |
| 47.32.3 | LT Power cables above 50 Sqmm | RMT | CSR00355 | 25 |
| 47.33 | Cable terminations to the switchgear, Marshalling boxes /Panel terminal blocks/control & relay panels, LTAC panel including providing suitable ferrules and lugs as per specification (including cost of ferrules and lugs) | | | |
| 47.33.1 | 2.5 sqmm Copper cable with copper lugs each core at both ends. | Each | CSR00356 | 43 |
| 47.33.2 | LT Power cables up to 50 Sqmm with copper/ Aluminium lugs each core at both ends. | Each | CSR00357 | 100 |
| 47.34 | LT Power cables above 50 Sqmm with Aluminium lugs each core at both ends. | Each | CSR00358 | 182 |
| 47.35 | Erection of 24 V DC Battery Charger with batteries | Each | CSR00359 | 375 |
| 47.36 | Erection of 24 V DC Battery Charger | Each | CSR00360 | 123 |
| 47.37 | Erection of 24 V DC Batteries (2 Nos 12 V batteries) | Each | CSR00361 | 252 |
| 47.38 | Erection of 48 V DC Battery Charger with batteries | Each | CSR00362 | 750 |
| 47.39 | Erection of LT AC Panel / RTCC Panel / RTU Panel in Control Room duly mounting them on channels and grouting them with foundation Bolts & nuts | Each | CSR00363 | 3601 |

| | | | | |
|---------|--|-------|----------|-------|
| 47.40 | Erection of 33 KV Twin Control & Relay panel in Control Room duly mounting them on channels and grouting them with foundation | Each | CSR00364 | 3601 |
| 47.41 | Erection of 220 V, 200 Ah/ 80 Ah maintenance free battery incomplete shape fit for charging. | set | CSR00365 | 4561 |
| 47.42 | Erection of 220 V, 200 Ah / 80Ah battery charger | each | CSR00366 | 4690 |
| 47.43 | Erection of Sand / water Buckets 9 litres capacity (1 No stand with 4 Nos buckets) | Set | CSR00367 | 95 |
| 47.44 | Erection of CO2 Cylinders 5 Kg including transport loading and unloading | Nos. | CSR00368 | 54 |
| 47.45 | Labour charges for erection of 1/3 arrangement switch and jumpering | Nos | CSR00369 | 1020 |
| 47.46 | Labour charges for erection of 1/1 arrangement switch and jumpering | Nos | CSR00370 | 1020 |
| 47.47 | Providing of 2 Nos. earths for each SS with Rail pole 90 lb rail poles of each minimum of 14 mts length (jointing 2 Nos 7 mts rail poles) for earthing duly drilling of bore well pneumatic compressor of bore 6 1/2 " dia suitable for 6" M.S.casing pipe including cost of T & P and labour and watering arrangement for improving earth resistance and filling the earth pit with Bentonite Powder including back filling, cement collar of size 600mm dia and 600 mm hight as per departmental standards, including cost of all materials, labour etc. complete. | Each | CSR00371 | 10374 |
| 47.48 | Fabrication, welding & erection of structural supports (BF beams 150x150 mm & drilling holes with machine) each 8/8.5/9.0Mtrs in length (As per the directions of the Engineer-In-charge), Structural Members (M.S.Channel 100 x 50mm, MS angle 65X65X6 mm) and seating channels as per relevant Indian standard | MT | CSR00372 | 5260 |
| 47.49 | Erection of Ladder Type Perforated Cable Trays | | | |
| 47.49.1 | 300 x 50 x 2mm | RM | CSR00373 | 190 |
| 47.49.1 | 450 x 50 x 2 mm | RM | CSR00374 | 251 |
| 47.50 | DC Annunciation Board for Out Door Sub- Stations Erection of Annunciation Board in the control room on M.S.Angle stand of 1.25x1.25 M, & height 1.25M (M.S.angle 50 x 50 X 6 mm) with 33KV & 11KV Bus PT Volt Meter (Voltmeter shall have selection option to read all the three phase voltages). with multi tone electronic hooter (24 Volts DC) | Each | CSR00375 | 1293 |
| 47.51 | Erection of Synthetic Rubber Mats as Per IS 15652 in control room 2.5 mm thick | Sqmtr | CSR00376 | 6 |

| | | | | |
|---------|---|------|----------|------|
| 47.52 | Fixing of chequered plates for closing the cable duct including drilling, welding, grouting , holes etc and painting with two coats synthetic enamel paint over a coat of red oxide | Kg | CSR00377 | 48 |
| 47.53 | 33KV GIS Indoor panel | | | |
| 47.53.1 | Erection, testing and commissioning of Indoor 33KV GIS (3 position) switchgear for incoming cubicles & transformer incoming cubicles: 33KV, 1250A 25KA for 3Sec with control and relay panel indoor GIS switchgear vacuum type circuit breakers of APEPDCL approved make for incommers, transformer control cubicles, feeder cubicles complete with copper bus bar connectors/control cables, glands, CTs(class 5p10 & 0.2s)& CR Panels with IED relays, bus bars and electrical equipment fitted with electrical wiring, annunciation board with digital 3 1/2 digit ammeter & voltmeter and electronic TVR meter make L&T /Secure with mod bus facility (RS 232 port) and MRI compability with class of accuracy 0.2S and numeric relays of Asidha/ABB/Areva/ L&T/ Siemens/Schneider as per section 5 of technical specification. | | | |
| 47.53.2 | Feeder cubicles with IED relay | Each | CSR00378 | 6977 |
| 47.53.3 | Transformer cubicles with IED relay | Each | CSR00379 | 6977 |
| 47.53.4 | Bus coupler with bus raiser cubicles with IED relay | Each | CSR00380 | 6977 |
| 47.53.5 | 33 KV PT of ratio 33KV/SQRT(3)/110*SQRT(3) of 0.2 class, Burden 25 VA | Each | CSR00381 | 853 |
| 47.54 | Erection , testing and commissioning of Indoor 33KV switchgear 33KV, 25KA 1250A Vaccum type indoor switchgear with drawout type type circuit breakers of APEPDCL approved make for incommers, transformer control cubicles, feeder cubicles complete with aluminium bus bar connectors/control cables, glands, CTs& CR Panels with relays (class 0.2s), bus bars and electrical equipment fitted with electrical wiring, annunciation board with digital 3 1/2 digit ammeter & voltmeter and electronic TVR meter make L&T or Secure with mod bus facility (RS 232 port) and MRI compability with class of accuracy 0.5 and numeric relays of ABB/Areva/ L&T/ Siemens as per section 5 of technical specification. | | | |
| 47.54.1 | For feeder cubicles | Each | CSR00382 | 6977 |
| 47.54.2 | For Transformer cubicles | Each | CSR00383 | 6977 |

| | | | | |
|---------|---|------|----------|------|
| 47.54.3 | For Bus coupler cubicles | Each | CSR00384 | 6977 |
| 47.54.4 | Erection, testing and commissioning of 33 KV PTs of ratio 33KV/SQRT(3)/110*SQRT(3) of 0.2 class, Burden 25 VA | Each | CSR00385 | 853 |
| 47.55 | Erection , testing and commissioning of Indoor 11KV switchgear 11KV, 25KA 1250A Vacuum type indoor switchgear with drawout type circuit breakers of APEPDCL approved make for transformer control cubicles, feeder cubicles and cubicles complete with aluminium busbar connectors/control cables, glands, CTs & CR Panels with relays (class 0.2s) and electrical equipment fitted with electrical wiring annunciation board with digital 3 1/2 digit ammeter & voltmeter and electronic TVR meter make L&T or Secure with mod bus facility (RS 232 port) and MRI compatibility with class of accuracy 0.5 and numeric relays ABB/Areva/ L&T/ Siemens as per section 5 of technical specification. | | | |
| 47.55.1 | For feeder cubicles | Each | CSR00386 | 6977 |
| 47.55.2 | For Transformer cubicles | Each | CSR00387 | 6977 |
| 47.55.3 | For Bus coupler cubicles | Each | CSR00388 | 6977 |
| 47.55.4 | Erection, testing and commissioning of 11 KV 3 - Phase PTs of ratio 11 KV/110Volts, Class 0.2, Burden 100 VA | Each | CSR00389 | 853 |
| 47.55 | Erection , testing and commissioning of Indoor 11KV switchgear 11KV, 25KA 1250A Vacuum type indoor switchgear with drawout type circuit breakers of APEPDCL approved make for transformer control cubicles, feeder cubicles and cubicles complete with aluminium busbar connectors/control cables, glands, CTs & CR Panels with relays (class 0.2s) and electrical equipment fitted with electrical wiring annunciation board with digital 3 1/2 digit ammeter & voltmeter and electronic TVR meter make L&T or Secure with mod bus facility (RS 232 port) and MRI compability with class of accuracy 0.5 and numeric relays ABB/Areva/ L&T/ Siemens as per section 5 of technical specification. | | | |
| 47.56 | Labour Charges for erection of Galvanised TC, TD, BD and cantilever towers | MT | CSR00390 | 4054 |
| 47.57 | Labour Charges for erection of Galvanised TC, TD, BD and cantilever towers under shutdown conditions | MT | CSR00391 | 6081 |

| | | | | |
|---------|--|-------------|----------|-------|
| 47.58 | Formation of 33KV BUS at EHT SS-Hoisting of Insulators and hardware, stretching the conductor and stringing of 33 kV bus comprising of three phases with Twin Zebra/Moose conductor to a tension of 900kgs including fixing of spacer clamps.(The maximum length or up to a length of bus section of 20m) | Bus Section | CSR00392 | 10137 |
| 47.59 | Erection of Marshalling Box | Each | CSR00393 | 588 |
| 47.60 | Erection, Wiring, Commissioning of 11KVAuto Reclosures / Sectionalizers | EA | | |
| 47.60.1 | Erection, Testing & Commissioning of Auto - Recloser(communicable) including galvanised mounting frame for mounting to Spun Poles, cables for incoming and outgoing, Terminal connectors for connecting incoming and outgoing cables, control cable etc., | EA | CSR00394 | 42831 |
| 47.60.2 | Erection, Testing & Commissioning of sectionaliser(SCADA Compatible) including galvanised mounting frame for mounting to Spun Poles, cables for incoming and out going, Terminal connectors for connecting incoming and outgoing cables, control cable etc., | EA | CSR00395 | 72386 |
| | SPM ITEMS | | | |
| 47.61 | Labour charges for dragging of DTRs from stacking area, SPM shed to testing platform and back of all capacities upto 315KVA only for departmental repaired units | Each | CSR00396 | 123 |
| 47.62 | Dragging of Unserviceble Survey Reported DTRs into SPM and after opening, dragging the units from SPM to outside | | | |
| 47.62.1 | Single Phase DTRs (10, 15 KVA) | Each | CSR00397 | 30 |
| 47.62.2 | 3 Phase DTRs (16, 25,40 KVA) | Each | CSR00398 | 30 |
| 47.62.3 | 3 Phase DTRs (63, 100 KVA) | Each | CSR00399 | 44 |
| 47.62.4 | 3 Phase DTRs (160, 250 KVA) | Each | CSR00400 | 59 |
| 47.63 | Dragging of Unserviceble Survey Reported Instrument Transformers into SPM and after opening, dragging the units from SPM to outside | | | |
| 47.63.1 | 11 KV Metering Cubilcle | Each | CSR00401 | 30 |
| 47.63.2 | 11 KV Potential Transformer | Each | CSR00402 | 30 |
| 47.63.3 | 33 KV Potential Transformer (1-Ph Type) | Each Lim | CSR00403 | 30 |
| 47.63.4 | 33 KV Potential Transformer (3-Ph Type) | Each | CSR00404 | 37 |

| | | | | |
|---------|---|-----------|----------|------|
| 47.63.5 | 11 KV / 33 KV CTs | Each | CSR00405 | 30 |
| 47.64 | Labour charges for loading of scrap from SPM Shed unloading at burning site, burning collection of burnt scrap, tying into bundles, loading into vehicle for weighing the vehicle, unloading the materials from vehicle at Stores and stocking in Stores Godown as directed. | MT | CSR00406 | 1352 |
| 47.65 | Cleaning and Overhauling of Defective LTTVR Meters received from the Field(Cleaning of LTTVR PP Box by blowing the air with blower, cleaning the dust, dirt and cleaning the web formed inside the PP Box CT chamber and meter chamber, cleaning with surf water and replacement of rusted screws on TTB and tightening the screws if necessary). | Each | CSR00407 | 117 |
| 47.66 | Numbering of poles (two coats) including painting black back ground white lettering per | Each pole | CSR00408 | 37 |
| 47.67 | Numbering of Agricultural services with name of the consumer, service No. and load. | Each pole | CSR00409 | 61 |
| 47.68 | Providing code numbers to transformers / structures including cost of paint. | Each pole | CSR00410 | 61 |
| 47.69 | Service wire removal / re erection | Each | CSR00411 | 37 |
| 47.70 | Excavation of cable trench of width 0.50mts X and 1.20 mtrs depth from road level and filling with sand for 50 mm including seigniorage charges for laying of 33 KV/11 KV XLPE UG Cables wherever required and covering the cable with a sand layer of 250mm above, providing of protective cover of shabed stones (0.3x0.5m) with 2 inch thickness over the sand and backfilling the trench with earth, leveling removing the debris if any excluding laying of 33/11 KV XLPE UG Cables. | Rmt | CSR00412 | 559 |
| 47.71 | Excavation of cable trench of width 0.50mts X and 1.00 mtrs depth from road level and filling with sand for 50 mm including seigniorage charges for laying of 33 KV/11 KV XLPE UG Cables wherever required and covering the cable with a sand layer of 250mm above, providing of protective cover of shabed stones (0.3x0.5m) with 2 inch thickness over the sand and backfilling the trench with earth, leveling removing the debris if any excluding laying of 33/11 KV XLPE UG Cables. | Rmt | CSR00413 | 530 |
| 47.72 | Excavation of Cable Trench for Laying of UG Cables and back filling after laying of Cables from 1ft x 1ft for Control Cables to 0.5m x 1.0m / 0.6m x 1.2m for UG Cables in Substation switchyard | | | |

| | | | | |
|---------|--|-----|----------|-----|
| 47.72.1 | 0.3x 0.3 m for Control Cables | RM | CSR00414 | 26 |
| 47.72.2 | 0.45 x 0.45 m for Control/ Power Cables | RM | CSR00415 | 60 |
| | UG CABLE RATES | | | |
| 47.73 | 33KV, 3Core, XLPE Aluminium UG cable works | | | |
| 47.73.1 | Laying and testing of 33 KV, 3core, 400 Sq.mm XLPE aluminium UG cable in the Open cable trench as per the specification and cable separation with machine cut bricks horizontally for every 3 meters as directed by the Engineer in Charge. This includes all costs of labour, plant and machinery required for laying, cost of machine cut bricks, warning tapes & laying, transportation of all materials from Section Office to work spot, loading and unloading. Excavation of trenches, supply of sand, sand filling and back filling measured separately. Road restoration to original condition is measured separately. | Mtr | CSR00416 | 78 |
| 47.73.2 | Laying and testing of 33 KV, 3core, 400 Sq.mm XLPE aluminium UG cable in the cable trench as per the specification through DWC, HDPE pipes wherever required depth is not achieved, Road crossings as per the approval of Engineer In- charge. This includes all costs of labour, plant and machinery required for laying, transportation of all materials from Section Office to work spot, loading and unloading. Excavation, supply of sand, sand filling and back filling measured separately. Road restoration to original conditions is measured separately. | Mtr | CSR00417 | 82 |
| 47.73.3 | Laying and testing of the 33 KV, 3core, 400 Sq.mm XLPE aluminium UG cable in the cable duct as per the specification in layers by removing & relaying of slabs. This includes all costs of labour, plant and machinery required for laying, welding of GI channel pieces, transportation of all materials from Section Office to work spot, loading and unloading. The rate shall include for cost of necessary plastering/painting, consumables. | Mtr | CSR00418 | 82 |
| 47.73.4 | Laying and testing of 33 KV, 3core, 400 Sq.mm XLPE aluminium UG Cable and Providing of DWC, HDPE pipes using Horizontal Directional Drilling Technique as per the specification and approval of Engineer-In-charge. This includes all costs of labour, plant and machinery required for laying, transportation of all materials from Section Office to work spot, loading and unloading | Mtr | CSR00419 | 781 |

| | | | | |
|---------|--|------|----------|-------|
| 47.74 | Laying of Cable up to ground level from 33 KV Feeder Outgoing Isolator. | | | |
| 47.74.1 | Erection of 6 mtrs long G.I. joist of size 175mm x 75 mm including the cost of excavation, concretings, transportation of all materials from Section Office to work spot, loading and unloading. | Each | CSR00420 | 3036 |
| 47.74.2 | Laying and testing of 33 KV, 3 core 400 Sq.mm XLPE Aluminium UG cable through HDPE pipe from 33 KV outgoing Isolator to starting point of cable trench, laying the cable through the pipe. This cost includes all costs of labour, testing, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00421 | 82 |
| 47.74.3 | Making Straight Through Cable jointing for 33 KV, 3core, 400 Sq.mm, XLPE armoured cable with heat shrinkable cable jointing kits. This cost includes all costs of labour, testing, transportation of all materials from Section Office to work spot, loading and unloading. | Each | CSR00422 | 6455 |
| 47.75 | Erection and Testing of 33 KV RMUs | | | |
| 47.75.1 | Erection and testing of 33 KV motorized, SCADA and DAS Compatible, Non Extensible RMU on mounting structure with all accessories as per specification. This includes Cost of GI nuts, bolts, washers, erection and testing charges, transportation of all materials from Section Office to work spot, loading and unloading. | Each | CSR00423 | 45067 |
| 47.76 | Laying and Testing of 11KV, 3Core, 300 Sq.mm,XLPE aluminium UG cable | | | |
| 47.76.1 | Laying and Testing of 300 Sq.mm, 11KV, 3Core, XLPE aluminium UG cable in the Open Cable trench as per the specification and separation with machine cut bricks horizontally for every 3 meters as per the specification. This includes the cost of laying of cable, cable warning tapes, cost of machine cut bricks & laying, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00424 | 43 |
| 47.76.2 | Laying and Testing of 300 Sq.mm, 11KV, 3Core, XLPE aluminium UG cable using Horizontal Directional Drilling Technique as per the specification and as per the approval of the Engineer In-charge. This includes the cost of laying of cable, cable warning tapes, drilling including the cost of excavation and back filling, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00425 | 768 |

| | | | | |
|---------|--|-----|----------|------|
| 47.76.3 | Laying and Testing of 300 Sq.mm, 11KV, 3Core, XLPE aluminium UG cable in the cable trench through HDPE, DWC pipes wherever required depth is not available as per the specification and as per the approval of the Engineer In-charge. This includes the cost of laying of cable, pipe, cable warning tapes, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00426 | 59 |
| 47.76.4 | Laying and testing of 300 Sq.mm, 11KV, 3Core, XLPE aluminium UG cable in the existing utilities duct by removing & relaying of slabs as per the specification. This includes the cost of fixing of GI channel supports as per the drawing, laying of cable, necessary plastering, laying cable warning tapes, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00427 | 88 |
| 47.77 | Laying and testing of Cable up to ground level from 11 KV Feeder outgoing Isolator | | | |
| 47.77.1 | Erection of 6 meters long GI Joist of Size 175 mm x 75mm including the cost of excavation, concreting, fixing of suitable GI Clamps, nuts, bolts, washers as per the approved drawing, transportation of all materials from Section Office to work spot, loading and unloading. | Nos | CSR00428 | 3374 |
| 47.77.2 | Laying and Testing of 11KV, 3 Core, 300 Sq.mm, XLPE aluminium UG cable through HDPE pipe from 11KV Feeder Outgoing Isolator to starting point of Cable trench as per the drawing, including the cost of laying the Cable through the Pipe, giving Jumpers from Isolator to Cable head with suitable connecting clamps & lugs, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00429 | 56 |
| 47.78 | Laying and Testing of Cable from RMU outgoing to DTR HV bushings | | | |
| 47.78.1 | Laying and Testing of 3 Core, 185 Sq.mm, 11 KV, XLPE aluminium UG cable from RMU Outgoing Point to DTR HV Bushings in the cable trench and separation with machine cut bricks horizontally for every 3 meters as per the specification. This includes the cost of laying of cable, cable warning tapes, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00430 | 49 |

| | | | | |
|---------|--|-----|----------|----|
| 47.78.2 | Laying and Testing of 3 Core, 185 Sq.mm, 11 KV, XLPE aluminium UG cable from RMU Outgoing Point to DTR HV Bushings in the cable trench through HDPE, DWC pipes wherever required depth is not available as per the specification. This includes the cost of laying of cable through DWC pipes where ever required as per the specification, cable warning tapes, GI Fixing Clamps, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00431 | 59 |
| 47.78.3 | Laying and Testing of 3 Core, 185 Sq.mm, 11 KV XLPE aluminium UG Cable from RMU Outgoing to DTR HV Bushings in the existing utilities duct by removing & relaying of slabs as per the specification. This includes the cost of laying of cable, fixing of GI channel pieces as per the drawing, necessary plastering, laying cable warning tapes, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00432 | 54 |
| 47.79 | Laying and Testing of Cable from RMU Outgoing to HT Service Metering Cubical Point | | | |
| 47.79.1 | Laying and of testing of 3 Core, 185 Sq.mm, 11KV, XLPE aluminium UG cable from RMU Outgoing to HT Service Metering Point in the Open Cable trench and separation with machine cut bricks horizontally for every 3 meters as per the specification. This includes the cost of laying of cable, cable warning tapes, GI fixing Clamps, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00433 | 49 |
| 47.79.2 | Laying and testing of 3 Core, 185 Sq.mm, 11 KV, XLPE aluminium UG cable from one RMU Outgoing Point to HT Service Metering Point in the cable trench through HDPE, DWC pipes wherever required depth is not available as per the specification. This includes the cost of laying of cable through DWC pipes where ever required as per the specification, cable warning tapes, Fixing Clamps, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00434 | 59 |
| 47.79.3 | Laying and testing of 3 Core, 185 Sq.mm, 11 KV XLPE aluminium UG Cable in the existing utilities duct by removing & relaying of slabs as per the specification. This includes the cost of fixing of GI channel pieces as per the drawing, laying of cable, necessary plastering, laying cable warning tapes, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00435 | 82 |

| | | | | |
|---------|--|------|----------|-------|
| 47.80 | Jointing, testing of 11 KV Heat Shrinkable Straight Through Kits Suitable for different sizes of 11 KV, XLPE aluminium UG Cable. This includes cost of labour, testing, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.80.1 | 300 Sq.mm | Each | CSR00436 | 4303 |
| 47.80.2 | 185 Sq.mm | Each | CSR00437 | 3074 |
| 47.81 | Erection and testing of 11 KV motorized, SCADA and DAS Compatible, Non Extensible RMU with mounting structure with all accessories as per specification. This includes Fixing, erection & testing charges, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.81.1 | 5 Way RMU (2 load break switches and 3 Circuit Breaker) | Each | CSR00438 | 23459 |
| 47.81.2 | 3 Way RMU (2 load break switches and 1 Circuit Breaker) | Each | CSR00439 | 14852 |
| 47.82 | Fixing of elastomeric insulating bushing boots for HV Bushings of DTR to be used in conjunction with terminations to enhance the phase-to-phase and phase-to-earth insulation and to protect against flashover or surges induced in switchgear & transformer boxes as per the specification. This cost includes fixing, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.82.1 | 500 KVA | Each | CSR00440 | 61 |
| 47.82.2 | 315 KVA | Each | CSR00441 | 61 |
| 47.83 | Fixing of elastomeric insulating bushing boots for LV Bushings of DTR to be used in conjunction with terminations to enhance the phase-to-phase and phase-to-earth insulation and to protect against flashover or surges induced in transformer as per the specification. This includes fixing, transportation of all materials from Section Office to work spot, loading and | | | |
| 47.83.1 | 500 KVA | Each | CSR00442 | 49 |
| 47.83.2 | 315 KVA | Each | CSR00443 | 49 |
| 47.84 | Compact Prefabricated Sub-Station of 11KV/433 V, 1000KVA Oil Cooled Transformer including HT and LT Panels. | | | |

| | | | | |
|---------|---|------|----------|-------|
| 47.84.1 | Erection & testing of Compact Prefabricated Sub Station of 11KV/433 V, 1000KVA Oil Cooled Transformer of Cable Entry Type including 3way RMU in HT Side and One number Incoming ACB and Ten Numbers Outgoing MCCBs in LT Side including including internal earthing complete as per the specification. This includes cost of erection, testing, cost of Foundation materials and erection, transportation of all materials from Section Office to work spot, loading and unloading. | Each | CSR00444 | 14099 |
| 47.85 | Erection of DWC, HDPE pipes suitable for insertion of of 1.1KV, LT, 31/2 Core,300 Sq.mm, XLPE aluminium UG cables. This includes cost of erection, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr. | CSR00445 | 12 |
| 47.86 | Fixing and testing of Three phase, 4 wire, LT, CT Operated Electronic Trivector Meters of class 0.5S with 4Each CTs of class 0.5S, 600/5 Amps with AMR compatible and built in GSM/GPRS modem in PP Box for metering on LV side of Distribution Transformer Suitable for 315 KVA Distribution Transformer as per the specification. This includes the cost of fixing meter with G.I clamps, Bolts & Nuts, testing, transportation of all materials from Section Office to work spot, loading and unloading. | Each | CSR00446 | 1558 |
| 47.87 | Laying and testing of different sizes of 3 1/2 Core, 1.1KV, LT, XLPE aluminium UG cable as per the specification in the Open Cable trench and separation with machine cut bricks horizontally for every 3 meters as per the specification, from Feeder Pillar Box to bottom of the Service Pillar Box or to the service pillar boxes erected on plinths. This includes the cost of laying of cable, cable warning tapes, cost of machine cut bricks & laying, testing, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.87.1 | 300 Sq.mm | Mtr | CSR00447 | 30 |
| 47.87.2 | 120 Sq.mm | Mtr | CSR00448 | 30 |
| 47.88 | Laying and testing of different sizes of 3 1/2 Core, 1.1 KV, LT, XLPE aluminium UG cables as per the specification in the existing utilities duct by removing & relaying of slabs as per the specification and as per the approval of the Engineer In-charge from Feeder Pillar Box to bottom of the Service Pillar Box. This includes the cost laying of cable through HDPE pipes where ever required as per the specification, laying of cable warning tapes, testing, transportation of all materials from Section Office to work spot, loading and unloading. | | | |

| | | | | |
|---------|--|------|----------|-------|
| 47.88.1 | 300 Sq mm | Mtr | CSR00449 | 30 |
| 47.88.2 | 120 Sq mm | Mtr | CSR00450 | 30 |
| 47.89 | Laying and testing of single core, 630 Sq.mm, 1.1KV, LT, XLPE aluminium armoured UG cable through HDPE pipe from LT bushings of DTR to Feeder Pillar Box through LT, CT meter box as per the drawing, including the cost laying of the Cable through the Pipe, excavation, fixing of Cleats, testing, transportation of all materials from Section Office to work spot, loading and unloading. | Mtr | CSR00451 | 33 |
| 47.90 | Erection and Testing of Feeder Pillar Box complete as per the specification including the Cost of Fixing Charges and suitable GI bolts and nuts. FP: One Incoming TP&N 630 Amps MCCB; Four Each Outgoing TP&N 100 Amps MCCB, One Outgoing TP&N 25 Amps MCCB and Provision of space for One Outgoing MCCB. This includes cost of labour towards erection, testing, transportation of all materials from Section Office to work spot, loading and Unloading. | Each | CSR00452 | 10807 |
| 47.91 | Erection and Testing of service pillars supports of different types as per the specification complete including the cost of excavation, supply and laying of concrete, and labour for erection of support, transportation of all materials from Section Office to work spot, loading and Unloading. | | | |
| 47.91.1 | 8.0 Mtrs PSCC spun poles | Each | CSR00453 | 6690 |
| 47.91.2 | 7.0 Mtrs GI joist of size 175*75 mm | Each | CSR00454 | 5213 |
| 47.92 | Erection and Testing of Service Pillar Box including fixing of G I clamps etc.,on the foundation/supporting structure as per the field requirement as per the specification. This includes cost of labour towards erection, testing, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.92.1 | SP-1: One Incoming TP&N 100 Amps MCCB; One Outgoing TP&N 63 Amps MCCB, 100 Amps Open Type Terminal Blocks suitable to give 12 Each Single Phase Services, 2 Each Three Phase services and spare blocks for future release of connection, One Outgoing Circuit suitable to connect 31/2 core XLPE AL. Cable of size 120 sq.mm without protection and 400A Busbar rating. | Each | CSR00455 | 1834 |
| 47.92.2 | SP-2: One Incoming TP&N 100 Amps MCCB, Four Outgoing Circuit suitable to connect 31/2 core XLPE AL. Cable of size 120 sq.mm & 70 Sq.mm through 400A Busbar rating. | Each | CSR00456 | 1834 |

| | | | | |
|---------|--|------|----------|------|
| 47.92.3 | SP-3: Three Phase FRP Distribution Box with 6Each Three Phase Service Connections, 100 amps capacity Ledger and 200amps Busbar | Each | CSR00457 | 1834 |
| 47.92.4 | SP-4: Three Phase FRP Distribution Box with 20Each Single Phase Service Connections, 100 amps capacity Ledger and 200amps Busbar | Each | CSR00458 | 1834 |
| 47.93 | Laying and Testing of LT, 1.1 KV, XLPE, Aluminum Cable of different sizes in Cable trench from Service Pillar box/feeder pillar box to consumer Meter panel board as per the specification including Cost of Laying, testing, transportation of all materials from Section Office to work spot, loading and unloading | | | |
| 47.93.1 | 4 Core 25 Sq.mm | Mtr | CSR00459 | 14 |
| 47.93.2 | 4 Core 16 Sq.mm | Mtr | CSR00460 | 14 |
| 47.93.3 | 2 Core 10 Sq.mm | Mtr | CSR00461 | 14 |
| 47.93.4 | 3 1/2 Core 70 Sq.mm for Street Light | Mtr | CSR00462 | 20 |
| 47.93.5 | 2 Core 25 Sq.mm for Street Light | Mtr | CSR00463 | 14 |
| 47.94 | Laying and testing of LT, 1.1 KV, XLPE, Aluminum Cable of different sizes through DWC, HDPE pipes in Cable trench from Service Pillar box/feeder pillar box to consumer Meter panel board. This includes cost of erection, testing, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.94.1 | 4 Core 25 Sq.mm | Mtr | CSR00464 | 23 |
| 47.94.2 | 4 Core 16 Sq.mm | Mtr | CSR00465 | 20 |
| 47.94.3 | 2 Core 10 Sq.mm | Mtr | CSR00466 | 12 |
| 47.95 | Jointing and testing of 1.1 KV Heat Shrinkable End Termination Kits of Indoor Type Suitable for different sizes of LT, XLPE Cables. This includes cost of jointing, testing, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.95.1 | 3 1/2 Core, 300 Sq.mm | Each | CSR00467 | 762 |
| 47.95.2 | 3 1/2 Core, 120 Sq.mm | Each | CSR00468 | 762 |
| 47.95.3 | 1 Core, 630 Sq.mm | Each | CSR00469 | 762 |
| 47.96 | Jointing and testing of 1.1 KV Heat Shrinkable Straight Through Kits Suitable for different sizes of 3 1/2 Core, LT, XLPE Cables. This includes cost of jointing, testing, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.96.1 | 300 Sq.mm | Each | CSR00470 | 762 |

| | | | | |
|---------|--|------|----------|-----|
| 47.96.2 | 120 Sq.mm | Each | CSR00471 | 762 |
| 47.97 | Laying and Testing of LT, 1.1 KV, XLPE, Aluminum Cable of different sizes in Cable trench from Service Pillar box/feeder pillar box to consumer Meter panel board as per the specification. This includes cost of laying, testing, transportation of all materials from Section Office to work spot, loading and | | | |
| 47.97.1 | 4 Core 25 Sq.mm | Mtr | CSR00472 | 14 |
| 47.98 | Jointing and testing of complete kit of different sizes suitable for 1.1 KV, LT, XLPE Aluminum Cable as per the specification. This includes cost of termination, testing, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.98.1 | 4 Core 25 Sq.mm | Each | CSR00473 | 268 |
| 47.98.2 | 4 Core 16 Sq.mm | Each | CSR00474 | 268 |
| 47.98.3 | 2 Core 10 Sqmm | Each | CSR00475 | 134 |
| 47.98.4 | 3 1/2Core 70 Sq.mm for Street Light | Each | CSR00476 | 880 |
| 47.98.5 | 2 Core 25 Sq.mm for Street Light | Each | CSR00477 | 134 |
| 47.99 | Making T joint of the following sizes as per standard it includes making T joint and testing the T joints. This includes cost of jointing, testing, transportation of all materials from Section Office to work spot, loading and unloading | | | |
| 47.99.1 | 4 Core 25 Sq.mm | Each | CSR00478 | 123 |
| 47.99.2 | 4 Core 16 Sq.mm | Each | CSR00479 | 123 |
| 47.99.3 | 2 Core 10 Sq.mm | Each | CSR00480 | 123 |
| 47.94 | Fixing of 250 mm x 200 mm H.T danger notice plate as per Indian Standard specification. This includes cost of erection, transportation of all materials from Section Office to work spot, loading and unloading. | Each | CSR00481 | 59 |
| 47.95 | Erection and testing of 3*95+1*70+1*16 sq.mm. LT AB Cable including the accessories as per specification. This includes cost of erection, testing, transportation of all materials from Section Office to work spot, loading and unloading | Mtr | CSR00482 | 17 |
| 47.96 | Erection and testing of Three Phase Distribution Box for 6 Connections with suitable Piercing Connector and accessories. This rate includes labour charges for connecting service | Each | CSR00483 | 585 |

| | | | | |
|---------|--|------|----------|------|
| | connections, testing, transportation of all | | | |
| 47.97 | Erection and testing of Single Phase Distribution Box for 20 Connections with suitable Piercing Connector and accessories. This rate includes labour charges for connecting service connections, testing, transportation of all materials from Section Office to work spot, loading and unloading. | Each | CSR00484 | 922 |
| 47.98 | Optical Fiber Cable for SCADA Communication and Telecom Network. This includes cost of laying, testing, transportation of all materials from Section Office to work spot, loading and unloading | | | |
| 47.98.1 | Laying and Testing of 12 core Optical Fiber Cable through the HDPE Duct for SCADA Communication. | Mtr | CSR00485 | 4 |
| 47.98.2 | Laying of 50/42 mm HDPE Duct (including 1 Push Fit Coupler, Spacers, 2 End Plugs and 2 Simple Plugs every 500 meters coil length) for Telecom Network. | Mtr | CSR00486 | 7 |
| 47.98.3 | Laying of 160mm DWC Duct (including 1 Coupler with O- Ring every 6 meters straight length) for Telecom Network. | Mtr | CSR00487 | 12 |
| 47.99 | CARBON ELECTRODE EARTHING and EARTHING PIT: | | | |
| 47.99.1 | Erection and testing of Eco Friendly maintenance free earthing system comprising of 17.2 mm dia. 3 Mtr. long Carbon Earthing Electrode with 250 microns copper coating. For installation of Earthing Electrode Supply of Pre cast RCC earth pit Chamber (300*300 MM) and making 100 mm diameter bore, 3 mtrs Long, making of earth pit and fixing of earth pit chamber in normal soil as per the specification., including cost of all chambers labour etc, testing, transportation of all materials from Section Office to work spot, loading and unloading complete and excluding the cost of GI Flat. | Nos | CSR00488 | 3719 |
| 47.99.2 | Connecting and testing of GI Flat of Size 40x6 mm from RMU/DTR Earth bolt to earth electrodes and two coatings of black bitumen paint to GI Flat complete as per the specification including cost of paint and consumables, connecting and testing, transportation of all materials from Section Office to work spot, loading and unloading. | MT | CSR00489 | 63 |
| 47.99.3 | Connecting and testing of GI Flat of Size 25X3 mm from Feeder Pillar box to earth electrodes and two coatings of black bitumen paint complete as per the specification including cost of paint labour and consumables, connecting, testing, transportation of all materials from Section Office to work spot, loading and unloading. | MT | CSR00490 | 49 |
| 47.99.4 | Excavation of earth pit, putting cast iron pipe with flange on one end of nominal dia. 50 mm and 2.5 meters long inside the pit and filling the earth pit with Bentonite Powder including back filling, cement collar of size | Each | CSR00491 | 971 |

| | | | | |
|----------|---|----|----------|------|
| | 300mm dia. and 300 mm height as per as per the specification, including cost of all labour etc., transportation of all materials from Section Office to work spot, loading and unloading complete and excluding the cost of GI Flat. | | | |
| 47.100 | Erection of GI channel of different sizes wherever required due to field conditions as per the approved drawing by the Engineer in charge. This includes the cost for fabrication and consumables, erection, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.100.1 | GI Channels - 100 mmX50mm | MT | CSR00492 | 7223 |
| 47.100.2 | GI Channels - 75 mmX40mm | MT | CSR00493 | 7223 |
| 47.101 | Erection of GI angle of different sizes wherever required due to field conditions as per the approved drawing by the Engineer in charge. This includes the cost for fabrication and consumables, erection, transportation of all materials from Section Office to work spot, loading and unloading | | | |
| 47.101.1 | GI angle - 50X50X6 mm | MT | CSR00494 | 7070 |
| 47.101.2 | GI angle - 65X65X6 mm | MT | CSR00495 | 7070 |
| 47.102 | Erection of GI flat of different sizes wherever required due to field conditions as per the approved drawing by the Engineer in charge. This includes the cost of fabrication and consumables, erection, transportation of all materials from Section Office to work spot, loading and unloading. | | | |
| 47.102.1 | GI Flat - 50 mm X 6 mm | MT | CSR00496 | 6399 |

48 Area Allowances

(% extra over basic rates of labour is to be added for carrying out works in these areas)

Note:- If more than one area allowance like Municipality, Agency/ Tribal Area, Industrial Area etc., are applicable for a particular situation, **only the maximum out of the allowable percentage is to be allowed**

| Sl No | Area of works located | Detailed description of area | Extra % over labour rates |
|-------|--------------------------------|---|---------------------------|
| 1 | Amaravathi Capital City Area | Amaravathi Capital City Area (217 Sq.Km) as declared by the Govt. Vide GO Ms No 141, MA&UD(M2) Dept , Dt- 9-6-2015 (Introduced as per the Govt Instructions issued in Govt Memo No 668755/Reforms/2017, Dt: 14-7-2017) | 40% |
| 2 | Greater Municipal Corporations | Greater Visakhapatnam and Vijayawada Municipal Corporations (Up to a belt of 12 Km from Municipal Corporation Limits) | 40% |
| 3 | Municipal Corporations | All Municipal Corporations other than Greater Visakhapatnam and Vijayawada Municipal Corporations (Up to a belt of 12 Km from Municipal Corporation limits) | 25% |
| 4 | District Head quarters | All District Headquarters and the remaining Municipal Limits (Up to a belt of 12Km from Municipal limits) | 20% |
| 5 | Tirumala Hills | Tirumala hills in Chittoor District | 40% |
| 6 | Horsely Hills | Horsely hills in Chittoor District | 30% |
| 7 | Tirumala Temple | 20% Extra over the basic rate of labour component specified for Tirumala hills | 68% |
| 8 | TTD Temples | In these TTD temples 20% extra over the basic rates of labour component for Tirupati Municipal Corporation is allowed. 1) Sri Padmavathi Ammavari Temple, Tiruchanoor 2) Sri Govindaraja Swamy Temple, Tirupati 3) Sri Kapileswara Swamy Temple, Kapilatheertham, Tirupati 4) Sri Kalyana Venkateswara Swamy Temple, Srinivasa Mangapuram | 50% |
| 9 | Jail compounds | In Jail compounds only equivalent number of Man mazdoor shall be provided and no Women mazdoor are allowed inside | 20% |

| | | | |
|----|-----------------------------------|--|---------------------------------|
| 10 | Industrial area | Extra percentage is allowed within 10Km belt of following Industrial areas1) Krishna Dist - Ibrahimpatnam, Vuyyuru and Jaggaiahpeta2) Guntur Dist - Macherla, Gurajala and Challapalli3) Vijayanagaram Dist - Garividi4) Chittoor Dist - Renigunta5) Kadapa Dist - Yerraguntla and Mangampeta6) Anantapur Dist - Hindupur, Tadipatri, Anantapur, Guntakal, Rayalacheruvu and Yadiki7) Kurnool Dist - Adoni, Dhone, Cement Nagar, Nandyal, Kurnool, Yemmiganur and Bethamcherla8) Visakhapatnam Dist - Anakapally | 20% |
| 11 | Agency/Tribal Areas (Up to 16km) | Works located within & upto 16 Km from any all weather route inside Agency/ Tribal areas | 25% |
| 12 | Agency/Tribal Areas (beyond 16km) | Works located beyond 16 Km from any all weather route inside Agency/ Tribal areas | 40% |
| 13 | Ghat roads | For Ghat roads steeper than 1 in 20, the length of the road may be taken as 1.5 times the existing length of the road for the purpose of leads for conveyance of materials | 1.5 times length of road |

49 Note on GST rates on labour and materials and Contractor Profit and overhead charges

| SL No | Description of Item | | |
|-------|--|-------|---|
| 1 | All the labour rates in SSR and material rates (except Petrol & Diesel) in Cost data are exclusive of GST only. At the time of preparation of estimate, applicable Building workers welfare cess and applicable GST is to be applied on the final value of estimate. | | |
| 2 | But for Petrol & Diesel, the rates are inclusive of VAT & Excise duty as per the current policy of Govt. of India. | | |
| 3 | Rates of Cement, Reinforcement Steel and structural steel are exclusive of GST only and are communicated by Govt of AP on monthly basis. | | |
| 4 | As on 1-8-2021 applicable Building workers welfare cess and GST on works is as below (Estimates are to be revised as and when Government revises applicable Cess and GST rates) | | |
| a) | Building workers welfare cess | 1% | To be applied at the end of estimate but before GST. |
| b) | Rate of GST on works contract, applicable on estimate value + Building workers welfare cess | 18% | To be applied at the end of estimate. GST rate from 1-7-2017 to till date |
| | | | |
| 5 | Contractors Profit and Over head charges | | |
| a) | Total Contractor Profit and Overhead charges are reduced to 13.615% from 14%. As per the Government order. | | |
| b) | Contractors Profit and Over head charges is to be applied on individual items of data and not at the end of estimate. | | |
| c) | CP & OH is to be applied based on applicable break-up enclosed to this Common SSR & Cost data, while preparation of estimate based on the nature of work. | | |
| d) | <u>Based on nature of work only certain items of break-up is applicable and is to be decided by estimate sanctioning authority.</u> However for general guidance, the following "Contractors Profit and Over Head charges" can be applied in while preparation of all types of estimates. | | |
| i) | Works costing more than Rs 1 Crore | 10.5% | |
| ii) | Works costing between Rs 1 Crore and Rs 50 lakh | 7% | |
| ii) | Works costing between Rs 50 lakh and Rs 10 lakh | 6% | |
| iii) | Works costing below Rs 10 lakh | 2% | |