

**EASTERN POWER DISTRIBUTION COMPANY OF A.P.LIMITED
CORPORATE OFFICE :: VISAKHAPATNAM**

Memo.No.CGM/Proj/GM.P/DE.PI/ADE.PI/ F.Cost Data/D.No. I/151373/2018, Dt: 05.03.2018

Sub:-APEPDCL- Cost Data of materials, equipment, H.T & L.T Lines, DTRs, Services, 33/11 KV Substations and Erection of towers to be adopted for the year 2018-19 – Instructions –Issued- Reg.

* * *

1. The Cost Data 2018-19 will come into force with effect from the date of **01.04.2018** and will be in force till next revision takes place.
2. The field officers are requested to strictly adhere to the following instructions while sanctioning the estimates.
 - a. In case where the estimates are pending to be sanctioned on or after 01.04.2018, the same should be revised with latest cost data 2018-19.
 - b. In case where the applicants paid the necessary charges for the estimates on or before 01.04.2018, the estimates need not be revised.
 - c. In case where the applicants come forward after 01.04.2018 and willing to pay the necessary charges for the estimates sanctioned prior to 01.04.2018, within the stipulated time as mentioned in the intimation letter from the concerned authority, the estimates need not be revised upto stipulated time period as communicated in the estimates.
 - d. In case where the applicants come forwards after 01.04.2018 and willing to pay the necessary charges for the estimates sanctioned prior to 01.04.2018, after lapse of stipulated time as mentioned in the intimation letter from the concerned authority, the estimates should be revised with the latest cost data 2018-19.
3. Applicable GST on material and 18% GST on labour and transport is adopted as per the recent tax structure issued by GoI.
4. 1% Cess is adopted on total cost of the construction as per the rules laid down in the Building and other construction workers welfare Cess Act 1996.

**//Digitally Signed//
Chief General Manager/Projects
APEPDCL::VISAKHAPATNAM**

To
All Superintending Engineers/
All Divisional Engineers/ADEs/AEs

File No.EPCOR-02001(09)/13/2016-PROJECTS-I-COR

Copy submitted to the Director/Projects & Operation /APEPDCL/Visakhapatnam

Copy submitted to the Director/ Finance/APEPDCL/Visakhapatnam

Copy submitted to the Executive Director/WB Projects/ APEPDCL/Visakhapatnam

Copy to:

The Chief General Managers

The Chief Project Manager/REC Ltd., Hyderabad

The Managing Director/RESCO/Anakapalli & Chepurupalli

The Chief Engineer/O & RE/ V.S/Hyderabad

The CGM/O&CS,EA&IT/APEPDCL/Visakhapatnam for uploading the Cost data 2018-19 in EPCCB portal

Signature valid

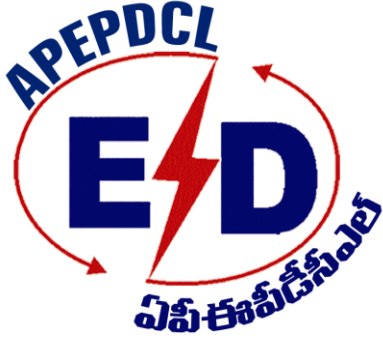
Digitally signed by V. Lalitha

Lalitha

Date: 2018.03.05 11:52:23 IST

Reason: Approved





Eastern Power
Distribution Company of A.P. Ltd
ఆంధ్ర ప్రదేశ్ తూర్పు ప్రాంత విద్యుత్ పంపిణీ సంస్థ

CORPORATE OFFICE :: VISAKHAPATNAM

COST DATA

2018-19

DATA FOR R.E. SCHEMES

Abstract of schedule of rates for 2018-19 : Cost Data per Km of 33KV, 11 KV, and LT Lines

| Sl. No. | Particulars of items | Wind. pr.in kg/m2 | W. Load in kg. | Type of pole being used | No. of poles/K M | Span in Mtrs | Size of Conductor | Cost in Rs. | Page No |
|---------|--|-------------------|----------------|-------------------------|------------------|--------------|--------------------|-------------|---------|
| 1 | 33KV line (Double Circuit) | | | M+12 Towers | 11 | 100 | 100Sqmm AAA | 5511750 | 12 |
| 2 | 33KV line | | | 12.5Mtr. Spun | 18 | 60 | 100Sqmm AAA | 834210 | 13 |
| 3 | 33KV line (Double Circuit) | | | 12.5Mtr. Spun | 18 | 60 | 100Sqmm AAA | 1198160 | 14 |
| 4 | 33KV line | | | 11.0Mtr. Spun | 18 | 60 | 100Sqmm AAA | 805540 | 15 |
| 5 | 33KV line | | | 11.0Mts. PSCC | 18 | 60 | 100Sqmm AAA | 584020 | 16 |
| 6 | 33 KV Line | 75 | 280 | 9.1 Mtr. PSCC | 22 | 50 | 100 Sqmm AAA | 458940 | 17 |
| 7 | 11 KV Line | 75 | 140 | 9.5 Mtr. Spun | 22 | 50 | 100 Sqmm AAA | 819220 | 18 |
| 8 | 11 KV Line | 75 | 140 | 9.1 Mtr. PSCC | 22 | 50 | 100 Sqmm AAA | 431420 | 19 |
| 9 | 11 KV Line | 100 | 200 | 9.1 Mtr. PSCC | 22 | 50 | 55 Sqmm AAA | 361080 | 20 |
| 10 | 11KV line (Double Circuit) | | | 11.0Mtr. PSCC | 22 | 50 | 100Sqmm AAA | 905070 | 21 |
| 11 | 11 KV Line | 100 | 200 | 8.0 Mtr PSCC(300Kgs) | 22 | 50 | 55 Sqmm AAA | 321560 | 22 |
| 12 | 11 KV Line | 100 | 200 | 8.0 Mtr PSCC(200Kgs) | 22 | 50 | 55 Sqmm AAA | 309100 | 23 |
| 13 | 6.3 KV Line | 75 | 140 | 9.1 Mtr. PSCC | 18 | 60 | 55 Sqmm AAA | 207070 | 24 |
| 14 | 6.3 KV Line | 100 | 200 | 8.0 Mtr PSCC(300Kgs) | 18 | 60 | 55 Sqmm AAA | 175310 | 25 |
| 15 | 6.3 KV Line | 100 | 200 | 8.0 Mtr PSCC(200Kgs) | 18 | 60 | 55 Sqmm AAA | 165120 | 26 |
| 16 | 6.3 KV Line | 100 | 200 | 8.0 Mtr PSCC(140Kgs) | 18 | 60 | 34 Sqmm AAA | 144230 | 27 |
| 17 | L.T. 3Ph 5 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC (300Kgs) | 27 | 40 | 4x55+1x34 Sqmm AAA | 379750 | 28 |
| 18 | L.T. 3Ph 5 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC (200Kgs) | 27 | 40 | 4x55+1x34 Sqmm AAA | 365590 | 29 |
| 19 | L.T. 3Ph 5 Wire Line(Horizontal) | 100 | 200 | 8.0 Mtr PSCC(140Kgs) | 27 | 40 | 4x55+1x34 Sqmm AAA | 359590 | 30 |
| 20 | L.T. 3Ph 5 Wire Line(Horizontal) | 100 | 200 | 8.0 Mtr PSCC (300Kgs) | 27 | 40 | 3x55+2x34 Sqmm AAA | 363200 | 31 |
| 21 | L.T. 3Ph 5 Wire Line(Horizontal) | 100 | 200 | 8.0 Mtr PSCC (200Kgs) | 27 | 40 | 3x55+2x34 Sqmm AAA | 349050 | 32 |
| 22 | L.T. 3Ph 5 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(140Kgs) | 27 | 40 | 3x55+2x34 Sqmm AAA | 343040 | 33 |
| 23 | L.T. 3Ph 5 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(300Kgs) | 27 | 40 | 5x55 Sqmm AAA | 396290 | 34 |
| 24 | L.T. 3Ph 5 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC (200Kgs) | 27 | 40 | 5x55 Sqmm AAA | 382140 | 35 |
| 25 | L.T. 3Ph 5 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC (300Kgs) | 27 | 40 | 5x34 Sqmm AAA | 311710 | 36 |
| 26 | L.T. 3Ph 5 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC (200Kgs) | 27 | 40 | 5x34 Sqmm AAA | 299400 | 37 |
| 27 | L.T. 3Ph 5 Wire Line(Horizontal) | 100 | 200 | 8.0 Mtr PSCC(140Kgs) | 27 | 40 | 5x34 Sqmm AAA | 293400 | 38 |
| 28 | L.T. 3Ph 4 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(300Kgs) | 27 | 40 | 4x55 Sqmm AAA | 345110 | 39 |
| 29 | L.T. 3Ph 4 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(200Kgs) | 27 | 40 | 4x55 Sqmm AAA | 330950 | 40 |
| 30 | L.T. 3Ph 4 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(140Kgs) | 27 | 40 | 4x55 Sqmm AAA | 324950 | 41 |
| 31 | L.T. 3Ph 4 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(300Kgs) | 27 | 40 | 4x34 Sqmm AAA | 278910 | 42 |
| 32 | L.T. 3Ph 4 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(200Kgs) | 27 | 40 | 4x34 Sqmm AAA | 264760 | 43 |
| 33 | L.T. 3Ph 4 Wire Line(Horizontal) | 100 | 200 | 8.0 Mtr PSCC(140Kgs) | 27 | 40 | 4x34 Sqmm AAA | 258760 | 44 |
| 34 | L.T. 1Ph 3 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(140Kgs) | 27 | 40 | 3x55 Sqmm AAA | 267840 | 45 |
| 35 | L.T. 1Ph 3 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(140Kgs) | 27 | 40 | 3x34 Sqmm AAA | 218190 | 46 |
| 36 | L.T. 1Ph 2 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(140Kgs) | 22 | 50 | 2x55 Sqmm AAA | 200250 | 47 |
| 37 | L.T. 1Ph 2 Wire Line(Horizontal) | 75 | 140 | 8.0 Mtr PSCC(140Kgs) | 22 | 50 | 2x34 Sqmm AAA | 167160 | 48 |
| 38 | L.T. AB Cable | 75 | 140 | 8.0 Mtr PSCC(200Kgs) | 22 | 50 | 3x16+25 Sqmm | 180310 | 49 |
| 39 | L.T. AB Cable | 100 | 200 | 8.0 Mtr PSCC(140Kgs) | 22 | 50 | 3x16+25 Sqmm | 176660 | 50 |
| 40 | L.T. AB Cable | 100 | 140 | 8.0 Mtr PSCC(200Kgs) | 22 | 50 | 2x16+25 Sqmm | 170040 | 51 |
| 41 | L.T. AB Cable | 100 | 200 | 8.0 Mtr PSCC(140Kgs) | 22 | 50 | 2x16+25 Sqmm | 166390 | 52 |
| 42 | Erection of 16KVA BEE 5-Star-11KV/433V copper wound Distribution Transformer | | | | | | | 159620 | 53 |
| 43 | Erection of 25KVA BEE 5-Star-11KV/433V copper wound Distribution Transformer | | | | | | | 153920 | 54 |
| 44 | Erection of 40KVA BEE 5-Star-11KV/433V copper wound Distribution Transformer | | | | | | | 217170 | 55 |
| 45 | Erection of 63KVA BEE 5-Star-11KV/433V copper wound Distribution Transformer | | | | | | | 255780 | 56 |
| 46 | Erection of 100KVA BEE 5-Star-11KV/433V copper wound Distribution Transformer | | | | | | | 259770 | 57 |
| 47 | Erection of 160KVA BEE 5-Star-11KV/433V copper wound Distribution Transformer | | | | | | | 359940 | 58 |
| 48 | Erection of 315KVA BEE 5-Star-11KV/433V copper wound Distribution Transformer | | | | | | | 870760 | 59 |
| 49 | Erection of 1-Ph 16KVA-6.3KV/0-240V copper wound Distribution Transformer on 9.1Mts. PSCC Pole | | | | | | | 90660 | 60 |
| 50 | Erection of 1-Ph 16KVA-6.3KV/0-240V copper wound Distribution Transformer on 8.0Mts. PSCC Pole(300Kgs) | | | | | | | 88950 | 61 |
| 51 | Erection of 1-Ph 16KVA-6.3KV/0-240V copper wound Distribution Transformer on 8.0Mts. PSCC Pole(200Kgs) | | | | | | | 89370 | 62 |
| 52 | Erection of 15 KVA 6.3/0-240V CSP Transformer(Oil immersed) on 9.1Mtr PSCC Pole | | | | | | | 74710 | 63 |

| Sl. No. | Particulars of items | Wind. pr.in kg/m ² | W. Load in kg. | Type of pole being used | No. of poles/K M | Span in Mtrs | Size of Conductor | Cost in Rs. | Page No |
|---------|---|-------------------------------|----------------|-------------------------|------------------|--------------|-------------------|-------------|-----------------|
| 53 | Erection of 15 KVA 6.3/0-240V CSP Transformer(Oil immersed) on 8 Mts PSCC Pole(200Kgs) | | | | | | | 72990 | 64 |
| 54 | Erection of 15 KVA 6.3/0-240V CSP Transformer(Oil immersed) on 8 Mts PSCC Pole(300Kgs) | | | | | | | 73420 | 65 |
| 55 | Release of Single Phase Agricultural Service erected on support | | | | | | | 2030 | 66 |
| 56 | Release of Poly Phase Agricultural Service erected on support | | | | | | | 5120 | 67 |
| 57 | Release of 1-Ph (High quality). Domestic & non-domestic service | | | | | | | 3680 | 68 |
| 58 | Release of 1-Ph (Electronic). Domestic & non-domestic service | | | | | | | 3410 | 69 |
| 59 | Release of 1-Ph Domestic & non-domestic service | | | | | | | 3680 | 70 |
| 60 | Release of 3-Ph Domestic & non-domestic service | | | | | | | 10080 | 71 |
| 61 | Release of 3-Ph (Electronic meter) Domestic & non-domestic service | | | | | | | 9330 | 72 |
| 62 | Release of poly phase (high quality) Indl.service upto 15 HP | | | | | | | 12450 | 73 |
| 63 | Release of Industrial service with poly phase 125/5A CT operated meter upto 15 HP | | | | | | | 18440 | 74 |
| 64 | Release of Industrial service with poly phase 200/5A CT operated meter above 15 HP | | | | | | | 13310 | 75 |
| 65 | Release of Industrial service with poly phase of load 50 HP & UPTO 75 HP (HT Metering with DP structure arrangement) | | | | | | | 297620 | 76 |
| 66 | Release of Industrial service with poly phase of load 50 HP & UPTO 75 HP (HT Metering with SP structure arrangement) | | | | | | | 221920 | 77 |
| 67 | Release of 11KV HT service of load 70KVA to 1000KVAwith DP structure arrangement | | | | | | | 313110 | 78 |
| 68 | Release of 11KV HT service of load 70KVA to 1000KVAwith SP structure arrangement | | | | | | | 256760 | 79 |
| 69 | Release of 11KV HT service of load above 1000KVA along with VCB | | | | | | | 959880 | 80 |
| 70 | Release of 33KV HT service of load above 1500KVA along with VCB | | | | | | | 1522600 | 81 |
| 71 | Release of Street light service (1-Ph electronic meter) | | | | | | | 5000 | 82 |
| 72 | Erection of 33/11 KV Outdoor Sub-station with 1x5MVA Power Transformer & 3 Nos. 11 KV feeders with Capacitor bank | | | | | | | 12179000 | 83 |
| 73 | Erection of 33/11 KV Outdoor Sub-station with 1X5MVA .Power Transformer & 3 Nos. 11 KV feeders without Capacitor bank | | | | | | | 10658000 | 84 |
| 74 | Erection of 33/11 KV Outdoor Sub-station with 2X5MVA .Power Transformer & 4 Nos. 11 KV feeders with Capacitor bank | | | | | | | 18384000 | 85 |
| 75 | Erection of 33/11 KV Outdoor Sub-station with 2x5MVA Power Transformer & 4 Nos. 11 KV feeders without Capacitor bank | | | | | | | 16863000 | 86 |
| 76 | Erection of 33/11 KV Indoor Sub-station with 2x5MVA Power Transformer & 4 Nos. 11 KV feeders | | | | | | | 30412000 | 87 |
| 77 | Erection of 33/11 KV Indoor Sub-station with 1X5MVA .Power Transformer & 3 Nos. 11 KV feeders | | | | | | | 23024000 | 88 |
| 78 | Erection of 33/11 KV Indoor Sub-station (33KV GIS type & 11KV VCB type) with 2X8MVA .Power Transformer & 4 Nos. 11 KV feeders | | | | | | | 50872000 | 89 |
| 79 | Erection of 5.0MVA Addl. PTR with 33KV Bay extension | | | | | | | 6005000 | 90 |
| 80 | Erection of 8.0MVA Addl. PTR with 33KV Bay extension | | | | | | | 8515000 | 91 |
| 81 | Enhancement PTR from 3.15 to 5.0MVA | | | | | | | 4844000 | 92 |
| 82 | Enhancement PTR from 5 to 8.0MVA | | | | | | | 6792000 | 93 |
| 83 | Erection of 11KV Bay extension along with VCB in existing 33/11KV Sub-Station | | | | | | | 616070 | 94 |
| 84 | Erection of 33KV Bay extension along with VCB in existing 33/11KV Sub-Station | | | | | | | 925200 | 95 |
| 85 | Erection of M+3 Tower data as per standards | | | | | | | 268290 | 96 |
| 86 | Erection of M+6 Tower data as per standards | | | | | | | 310880 | 97 |
| 87 | Erection of M+9 Tower data as per standards | | | | | | | 353360 | 98 |
| 88 | Erection of M+12 Tower data as per standards | | | | | | | 395340 | 99 |
| 89 | Data for Fabrication of 33KV Line Item as per standards | | | | | | | | 100 & 101 |
| 90 | Data for Fabrication of 11KV Line Item as per standards | | | | | | | | 102 & 103 |
| 91 | Data for Fabrication of LT Line Item as per standards | | | | | | | | 104 |

**COST DATA OF CENTRALISED MATERIALS FOR
R.E. AND DISTRIBUTION WORKS
2018-19**

| Sl. No. | SAP Code | Name of the Material | Unit | Ex-Works Price in Rs. | F&I in Rs. | % GST (Applicable) | Unit Rate in Rs. |
|---|----------|--|------|-----------------------|------------|--------------------|------------------|
| SUB HEAD-1 : SUPPORTS AND FIXTURES, IRON, STEEL AND CEMENT | | | | | | | |
| I(a) RS JOISTS | | | | | | | |
| 1 | MST00032 | RS Joists 175 x 85mm | MT | 38942 | 2150.00 | 18% | 48101 |
| 2 | MST00029 | RS Joists 150 x 150mm | MT | 38942 | 2150.00 | 18% | 48101 |
| 3 | MST00030 | RS Joists 150 x 75mm | MT | 38942 | 2150.00 | 18% | 48101 |
| 4 | | RS Joists 175 x 50mm | MT | 38942 | 2150.00 | 18% | 48101 |
| I(b) PSCC POLES | | | | | | | |
| 5 | PLS00008 | 12.5 mts. Spun Poles 350kgs | Each | 8705 | 1692.75 | 18% | 12270 |
| 6 | PLS00007 | 11 mts. Spun Poles 350Kgs | Each | 7820 | 1700.24 | 18% | 11234 |
| 7 | PLS00013 | 11 mts. PSCC poles 365 Kgs | Each | 4154 | 1675.29 | 18% | 6879 |
| 8 | PLS00015 | 9.5 mts. Spun Poles 350Kgs | Each | 7138 | 1630.92 | 18% | 10347 |
| 9 | PLS00014 | 9.5 mts. Spun Poles 300Kgs | Each | 6640 | 1557.25 | 18% | 9673 |
| 10 | PLS00004 | 9.1 mts. PSCC poles 280 Kgs. | Each | 2095 | 680.00 | 18% | 3275 |
| 11 | PLS00003 | 8 mts. PSCC poles 300 Kgs. | Each | 1500 | 500.00 | 18% | 2360 |
| 12 | PLS00002 | 8 mts. PSCC poles 200 Kgs. | Each | 1234 | 453.41 | 18% | 1992 |
| 13 | PLS00002 | 8 mts. PSCC poles 140 Kgs. | Each | 1587 | | 18% | 1873 |
| 14 | | 3 mts. RCC Fencing Poles | EA | 235 | | 18% | 278 |
| 15 | | 2 mts. RCC Fencing Poles | EA | 96 | | 18% | 113 |
| 16 | PLS00009 | RCC Base Plate | EA | 61 | | 18% | 72 |
| I(c) RAIL POLES | | | | | | | |
| 17 | MST00025 | 7 mts. Rail (30 lb) poles | MT | 39699 | | 18% | 46845 |
| 18 | MST00024 | 13 mts Rail (105 lb) poles | MT | 39699 | | 18% | 46845 |
| I(d) STEEL MATERIALS | | | | | | | |
| 19 | MST00012 | MS Channel 100 x 50mm | MT | 35300 | 2150.00 | 18% | 44191 |
| 20 | MST00013 | MS Channel 75 x 40mm | MT | 35300 | 2150.00 | 18% | 44191 |
| 21 | | MS Angle 130 x 130 x 12mm | MT | 35300 | 2150.00 | 18% | 43804 |
| 22 | MST00003 | MS Angle 65 x 65 x 6mm | MT | 35300 | 2150.00 | 18% | 44191 |
| 23 | MST00002 | MS Angle 50 x 50 x 6mm | MT | 35300 | 2150.00 | 18% | 44191 |
| 24 | MST00015 | MS Flat 75 x 8mm | MT | 41500 | 2150.00 | 18% | 51507 |
| 25 | MST00014 | MS Flat 50 x 6mm | MT | 41500 | 2150.00 | 18% | 51507 |
| 26 | EMT00018 | GI Flat 25 x 4mm | MT | 54120 | | 18% | 63861 |
| 27 | | GI SS Structures | MT | 62062 | | 18% | 73233 |
| 28 | MST00019 | MS Rod 20mm | MT | 45619 | | 18% | 53830 |
| 29 | MST00018 | MS Rod 16mm | MT | 45619 | | 18% | 53830 |
| I(f) STEEL WIRE & MS SHEET | | | | | | | |
| 30 | WRS00011 | HT Steel wire-4mm | MT | 48500 | | 18% | 57230 |
| 31 | WRS00007 | GI Stay wire 7/3.15 mm | MT | 43000 | 1693.12 | 18% | 52738 |
| 32 | WRS00006 | GI Stay wire 7/2.5 mm | MT | 49256 | 1600.00 | 18% | 60010 |
| 33 | WRS00005 | GI Wire 4 mm (No.8) | MT | 44663 | 1600.00 | 18% | 54590 |
| 34 | | C R Sheet 1.6mm | MT | 35556 | | 18% | 41956 |
| 35 | MST00046 | M S Plate 12mm/6mm | MT | 41500 | | 18% | 48970 |
| 36 | | Torsteel 10mm/12mm | MT | 28952 | | 18% | 34164 |
| I(g) BOLT & NUTS | | | | | | | |
| 37 | BNT00001 | MS Bolts and Nuts with Washers full thread (5/8" X 1.5", 2", 6", 7", 8", 9") | MT | 41837 | | 18% | 49368 |
| 38 | BNT00002 | MS Bolts and Nuts with Washers full thread (5/8" X 2 1/2", 3", 4") | MT | 41837 | | 18% | 49368 |
| 39 | BNT00044 | MS Bolts and Nuts with Washers full thread (3/8" X 1 1/2") | MT | 41837 | | 18% | 49368 |
| 40 | BNT00041 | MS Bolts and Nuts with Washers full thread (1/2" X 1 1/2") | MT | 41837 | | 18% | 49368 |
| 41 | | MS Nuts 16 mm (1" Thick) | MT | 41837 | | 18% | 49368 |
| 42 | | MS Nuts 16 mm (1/2" Thick) | MT | 41837 | | 18% | 49368 |
| 43 | | MS Hexagonal Polished Nuts 3/4 | MT | 41837 | | 18% | 49368 |
| 44 | BNT00024 | GI Bolts and Nuts with Washers full thread (5/8" X 1.5", 2", 6", 7", 8", 9") | MT | 50303 | | 18% | 59357 |
| 45 | BNT00018 | GI Bolts and Nuts with Washers full thread (5/8" X 2 1/2", 3", 4") | MT | 50303 | | 18% | 59357 |
| 46 | BNT00034 | GI Bolts and Nuts with Washers full thread (3/8" X 1 1/2") | MT | 50303 | | 18% | 59357 |
| 47 | BNT00035 | GI Bolts and Nuts with Washers full thread (1/2" X 1 1/2") | MT | 50303 | | 18% | 59357 |
| I(h) CEMENT | | | | | | | |
| 48 | | Cement | MT | 4237 | | 18% | 5000 |

| Sl. No. | SAP Code | Name of the Material | Unit | Ex-Works Price in Rs. | F&I in Rs. | %GST (Applicable) | Unit Rate in Rs. |
|---|-----------|--|------|-----------------------|------------|-------------------|------------------|
| SUB HEAD-2 : INSULATORS AND HARDWARE | | | | | | | |
| 2(a) 33KV | | | | | | | |
| 1 | INS30001 | 33 KV Pin Insulator | E | 188 | 26.27 | 18% | 253 |
| 2 | HWR00003 | 33 KV GI Pin | E | 132 | 7.14 | 18% | 164 |
| 3 | INS30007 | 33 KV Polymer Pin Insulator with pins | E | 288 | 24.71 | 18% | 369 |
| 4 | INS30004 | 33KV 70KN Disc Insulators | E | 331 | | 18% | 391 |
| 5 | HWR00004 | 33 KV String Insulator Fittings (B&S) | E | 155 | | 18% | 183 |
| 6 | INS30004 | 33 KV polymer disc insulator/string insulator (B&S) | E | 236 | | 18% | 279 |
| 7 | INS30003 | 33 KV Post Type Insulators (Stags) | E | 680 | 105.40 | 18% | 927 |
| 8 | INS30002 | 33 KV Solid Core Insulators | E | 1106 | | 18% | 1306 |
| 2(b) 11KV | | | | | | | |
| 9 | INS10001 | 11 KV Pin Insulator | E | 44 | 9.12 | 18% | 63 |
| 10 | HWR00001 | 11 KV GI Pin | E | 50 | 2.60 | 18% | 61 |
| 11 | INS10011 | 11 KV Polymer Pin Insulator with Pins | E | 151 | | 18% | 178 |
| 12 | INS10004 | 11 KV Disc Insulator (B&S) | E | 200 | 43.50 | 18% | 287 |
| 13 | INS10002 | 11 KV Disc Insulator (C&T) | E | 200 | | 18% | 236 |
| 14 | INS10003 | 11 KV Polymer Disc insulator (B&S) | E | 218 | | 18% | 258 |
| 15 | INS10003 | 11 KV Polymer Disc insulator (C&T) | E | 200 | 43.50 | 18% | 287 |
| 16 | HWR00002 | 11 KV Disc Insulator Fittings (C&T) | E | 67 | 2.42 | 18% | 82 |
| 17 | INS10008 | 11KV Post Type Insulator | E | 228 | 15.45 | 18% | 287 |
| 18 | INS10006 | 11 KV Solid Core Insulators for AB Switches | E | 210 | | 18% | 248 |
| 19 | INS10007 | 11 KV Solid Core Insulators for 11 KV HG Fuse sets | E | 149 | | 18% | 176 |
| 20 | INS10005 | HT Guy Insulator | E | 45 | | 18% | 53 |
| 2(c) LT | | | | | | | |
| 21 | INS00001 | LT Pin Insulator | E | 14 | 3.63 | 18% | 21 |
| 22 | HWR00015 | LT GI Pin | E | 50 | 2.60 | 18% | 61 |
| 23 | INS00002 | LT Shackle Insulator | E | 15 | | 18% | 17 |
| 24 | HWR00016 | LT Metal Parts for Shackles | E | 27 | 1.66 | 18% | 34 |
| 25 | BNT00030 | CI Knob | E | 11 | | 18% | 13 |
| 26 | INS00003 | LT Guy Insulator | E | 19 | | 18% | 22 |
| 27 | | LT Bus-Bar Insulator with Aluminium Strip | E | 52 | | 18% | 62 |
| SUB HEAD-3 : CROSS ARMS AND TOP CLEATS | | | | | | | |
| 3(a) 33KV | | | | | | | |
| 1 | FBR30028 | 1.53 Mts Channel Cross arms (33KV V-Cross arm) | E | 834 | | 18% | 984 |
| 2 | FBR30016 | 2.1 Mtrs 33KV Tapping Cross arm 100X50mm MS Channel | E | 1074 | | 18% | 1268 |
| 3 | FBR30006 | 33KV Top Cleat with Clamp | E | 498 | | 18% | 587 |
| 4 | FBR30026 | 33KV Side arm (2.1Mtrs) with Strut (2.5Mtrs) with back clamp and stay clamp set | Set | 2314 | | 18% | 2730 |
| 5 | FBR00025 | 33KV Double Bracing Set with V-Cross arm/Horizontal cross arm Along with Fish Plates | Set | 7326 | | 18% | 8645 |
| 6 | | 33KV T-Raiser with 2sets of stay clamps | Set | 2375 | | 18% | 2802 |
| 3(b) 11KV | | | | | | | |
| 7 | FBR 30041 | FRP V CROSS ARMS | E | 1579 | 85.26 | 18% | 1964 |
| 8 | FBR10002 | 1.07 Mts Channel Cross arms (11KV V-Cross arm) | E | 404 | | 18% | 477 |
| 9 | FBR10004 | 1.5Mtrs 11KV Tapping Cross arm with 75X40mm MS Channel | E | 380 | | 18% | 448 |
| 10 | FBR10007 | 11KV Top Cleat with Clamp | E | 147 | | 18% | 173 |
| 11 | FBR10005 | 11KV Side arm (1.65Mtrs) with Strut (1.7Mtrs) with back clamp and stay clamp set | Set | 1345 | | 18% | 1587 |
| 12 | FBR00025 | 11KV Double Bracing Set with V-Cross arm/Horizontal cross arm Along with Fish Plates | Set | 4807 | | 18% | 5672 |
| | | 11KV T-Raiser with 2sets of stay clamps | Set | 1807 | | 18% | 2132 |
| 13 | | 3(c) LT | | | | | |
| 14 | FBR00008 | LT 3-Ph Cross arm (for 5 Wire line) | E | 351 | | 18% | 415 |
| 15 | FBR00007 | LT 3-Ph Cross arm (for 4 Wire line) | E | 315 | | 18% | 372 |
| 16 | FBR00006 | LT S-Ph Cross arm (for 3 Wire line) | E | 148 | | 18% | 175 |
| 17 | FBR00005 | LT S-Ph Cross arm (for 2 Wire line) | E | 152 | | 18% | 180 |
| 18 | FBR00012 | LT Top Cleat with Clamp | E | 176 | | 18% | 208 |
| 19 | FBR00011 | LT Side arm with Strut including back clamp and stay clamp set | Set | 1323 | | 18% | 1561 |
| 20 | | LT T-Raiser with 2sets of stay clamps | Set | 1367 | | 18% | 1613 |

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| 3(d) STAY SETS | | | | | | | |
| 21 | FBR30002 | 33KV MS Stay set complete with base plate and without stay clamps | E | 775 | | 18% | 915 |
| 22 | FBR30002 | 33KV MS Stay set complete with base plate and stay clamps | Set | 1115 | | 18% | 1316 |
| 23 | FBR10010 | 11KV MS Stay set complete with base plate and without stay clamps | E | 319 | | 18% | 376 |
| 24 | FBR10010 | 11KV MS Stay set complete with base plate and stay clamps | Set | 588 | | 18% | 693 |
| 25 | FBR10010 | 6.3KV Stay set complete with base plate without stay clamps | E | 457 | | 18% | 539 |
| 26 | FBR10010 | 6.3KV Stay set complete with base plate and stay clamps | Set | 554 | | 18% | 654 |
| 27 | FBR00010 | LT Stay set complete with base plate and without stay clamps | E | 452 | | 18% | 533 |
| 28 | FBR00010 | LT Stay set complete with base plate and stay clamps | E | 549 | | 18% | 648 |
| 3(e) Back Clamps | | | | | | | |
| 29 | FBR00047 | Back Clamp for Spun poles with 75X8mm MS Flat at HT | E | 114 | | 18% | 134 |
| 30 | FBR00046 | Back Clamp for Spun poles with 75X8mm MS Flat at LT | E | 138 | | 18% | 163 |
| 31 | FBR00042 | Back Clamp for 11.0 Mts PSCC pole with 75X8mm MS Flat | E | 168 | | 18% | 198 |
| 32 | FBR00040 | Back Clamp for 11.0 Mts PSCC pole with 50X6mm MS Flat | E | 86 | | 18% | 101 |
| 33 | FBR00002 | Back Clamp for 9.1 Mts PSCC pole with 75X8mm MS Flat | E | 149 | | 18% | 176 |
| 34 | FBR00002 | Back Clamp for 9.1 Mts PSCC pole with 50X6mm MS Flat | E | 74 | | 18% | 87 |
| 35 | FBR00001 | Back Clamp for 8 Mts PSCC pole with 50X6mm MS Flat | E | 37 | | 18% | 44 |
| 3(f) Stay Clamp Set | | | | | | | |
| 36 | FBR00016 | Stay Clamps for Spun poles with 75X8mm MS Flat at HT | Set | 339 | | 18% | 401 |
| 37 | FBR00016 | Stay Clamps for Spun poles with 75X8mm MS Flat at LT | Set | 402 | | 18% | 474 |
| 38 | FBR00043 | Stay Clamps for 11.0 Mts PSCC pole with 75X8mm MS Flat | Set | 267 | | 18% | 315 |
| 39 | FBR00043 | Stay Clamps for 11.0 Mts PSCC pole with 50X6mm MS Flat | Set | 136 | | 18% | 161 |
| 40 | FBR00004 | Stay Clamps for 9.1Mts PSCC Pole with 75X8mm MS Flat | Set | 230 | | 18% | 272 |
| 41 | FBR00004 | Stay Clamps for 9.1Mts PSCC Pole with 50X6mm MS Flat | Set | 50 | | 18% | 59 |
| 42 | FBR00003 | Stay Clamps for 8 Mts PSCC polewith 50X6mm MS Flat | Set | 64 | | 18% | 76 |
| 43 | HWR00001 | D Clamp for 8.0 M poles | E | 60 | | 18% | 71 |
| 44 | STR10019 | DPC aluminium Winding Wire 1.25 mm | Kg | 163 | | 18% | 193 |
| 45 | STR10021 | DPC aluminium Winding Wire 1.6 mm | Kg | 163 | | 18% | 193 |
| 3(g) DTR STRUCTURE MATERIAL | | | | | | | |
| 46 | FBR10013 | 11 KV DP Structure Material Total Set | Set | 6630 | | 18% | 7824 |
| 47 | FBR10031 | SP Structure Material Total Set for mounting of AB switch | Set | 347 | | 18% | 409 |
| 48 | FBG00008 | SP Structure Material Total Set with Mounting Arrangement for (16/25/40KVA) and AB switch. | Set | 2421 | | 18% | 2856 |
| 49 | FBG00015 | SP Structure Material Total Set with Mounting Arrangement for S-Ph 16KVA with Mounting of AB Switch | Set | 1996 | | 18% | 2355 |
| SUB HEAD - 4 : CONDUCTORS | | | | | | | |
| 1 | CDR00011 | ACSR Conductor Zebra | KM | 199131 | | 18% | 234974 |
| 2 | CDR00010 | ACSR Conductor Panther 200 sq.mm. | KM | 121794 | | 18% | 143717 |
| 3 | CDR00010 | AAA Conductor Panther 200 Sq.mm | KM | 115468 | 3500.00 | 18% | 140383 |
| 4 | CDR00004 | AAA Conductor 100 Sq.mm or (7/4.26 AAAC Dog) | KM | 36499 | 1550.00 | 18% | 44898 |
| 5 | CDR00003 | AAA Conductor 55 Sq.mm or (7/3.15 AAAC/RABBIT) | KM | 24925 | 450.00 | 18% | 29943 |
| 6 | CDR00002 | 34 Sq.mm AAA Conductor or (7/2.50 AAAC/Weasel) | KM | 16200 | 229.90 | 18% | 19387 |
| 7 | CDR00012 | 11KV 70 Sqmm AAA Covered conductor | KM | 443750 | | 18% | 523625 |
| Accessories for 11KV 70 Sqmm AAA Covered conductor | | | | | | | |
| 8 | INS10013 | 11KV TENSION INSULATORS | E | 895 | | 18% | 1056 |
| 9 | HWR00020 | 11KV TENSION INSULATORS HARDWARE | E | 321 | | 18% | 378 |
| 10 | HWR00021 | IPC | E | 1154 | | 18% | 1361 |
| 11 | HWR00022 | TIES | E | 468 | | 18% | 552 |
| | LAS00005 | NDA SILICON/SURGE ARRESTOR | E | 2390 | | 18% | 2821 |
| | SCB10073 | 11KV MID SPAN JOINTING KIT | E | 4947 | | 18% | 5837 |
| | SCB10033 | TERMINATION KIT | E | 2515 | | 18% | 2968 |
| | INS10011 | 11KV5KN POLYMER PIN INSULATOR WITH GIPIN | E | 356 | | 18% | 420 |
| | HWR00023 | TOP TIE FOR POLYMER INSULATOR | E | 468 | | 18% | 552 |
| | HWR00024 | SIDE TIE FOR POLYMER INSULATOR | E | 468 | | 18% | 552 |
| | HWR00025 | TOP TIE FOR PORCELAIN INSULATOR | E | 468 | | 18% | 552 |
| | HWR00026 | SIDE TIE FOR PORCELAIN INSULATOR | E | 468 | | 18% | 552 |
| SUB HEAD-5 : CABLES | | | | | | | |
| 5(a) LT XLPE SINGLE CORE CABLES | | | | | | | |
| 1 | | 2.50 Sq.mm | KM | 2224 | | 18% | 2624 |
| 2 | | 4.00 Sq.mm | KM | 3532 | | 18% | 4168 |
| 3 | | 6.00 Sq.mm | KM | 4447 | | 18% | 5247 |
| 4 | | 10.00 Sq.mm | KM | 7063 | | 18% | 8334 |
| 5 | CBP00011 | 25.00 Sq.mm | KM | 19532 | | 18% | 23048 |
| 6 | CBX00001 | 50.00 Sq.mm | KM | 31859 | 2800.00 | 18% | 40897 |
| 7 | CBX00002 | 70.00 Sq.mm | KM | 46972 | 1200.00 | 18% | 56843 |
| 8 | CBX00003 | 95.00 Sq.mm | KM | 52200 | 1620.00 | 18% | 63508 |

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| 9 | CBX00004 | 120.00 Sq.mm | KM | 66888 | 1899.00 | 18% | 81169 |
| 10 | | 150.00 Sq.mm | KM | 80423 | | 18% | 94899 |
| 11 | CBX00011 | 185.00 Sq.mm | KM | 104000 | 2340.00 | 18% | 125481 |
| | | 5(b) LT PVC SINGLE CORE CABLES | | | | | |
| 12 | CBX00017 | 25.00 Sq.mm | KM | 18712 | | 18% | 22081 |
| 13 | CBX00005 | 50.00 Sq.mm | KM | 34268 | | 18% | 40436 |
| 14 | CBX00006 | 70.00 Sq.mm | KM | 44731 | | 18% | 52783 |
| 15 | CBX00008 | 120.00 Sq.mm | KM | 65397 | | 18% | 77168 |
| | | 5(c) LT CONTROL CABLES | | | | | |
| 16 | | 2 X 2.5 Sq.mm (Cu) | KM | 33941 | | 18% | 40050 |
| 17 | CBP00002 | 4 X 2.5 Sq.mm (Cu) | KM | 52335 | 2943.00 | 18% | 65228 |
| 18 | | 4 x 4.0 Sq.mm (AL) | KM | 22011 | | 18% | 25972 |
| 19 | CBP00006 | 10 x 2.5 Sq.mm (Cu) | KM | 133695 | 3384.00 | 18% | 161753 |
| | | 5(d) LT XLPE CABLES | | | | | |
| 20 | CBX00016 | 3 1/2 X 300 sqmm LT XLPE cable | KM | 558403 | | 18% | 658915 |
| 21 | CBX00015 | 3 1/2 X 185 sqmm LT XLPE cable | KM | 399816 | 18000.00 | 18% | 493023 |
| 22 | | 3 1/2 X 150 sqmm LT XLPE cable | KM | 303434 | | 18% | 358053 |
| 23 | CBX00014 | 3 1/2 X 120 sqmm LT XLPE cable | KM | 297827 | 10950.00 | 18% | 364356 |
| 24 | CBX00013 | 3 1/2 X 95 sqmm LT XLPE cable | KM | 215101 | 2151.00 | 18% | 256357 |
| 25 | CBX00012 | 3 1/2 X 70 sqmm LT XLPE cable | KM | 161693 | | 18% | 190798 |
| 26 | | 3 1/2 X 50 sqmm LT XLPE cable | KM | 121731 | | 18% | 143643 |
| 27 | CBX00010 | 3 1/2 X 25 sqmm LT XLPE cable | KM | 74279 | | 18% | 87649 |
| | | 5(e) LT AERIAL BUNCHED CABLES | | | | | |
| 28 | CBA00001 | 1 x 16+25 Sq.mm LT AB Cable | KM | 22011 | | 18% | 25972 |
| 29 | CBA00002 | 2 x 16+25 Sq.mm LT AB Cable | KM | 29769 | 700.00 | 18% | 35953 |
| 30 | CBA00003 | 3 x 16+25 Sq.mm LT AB Cable | KM | 35020 | 1000.00 | 18% | 42504 |
| 31 | CBA00004 | 3 x 70 + 1x16 +1x50 Sqmm LT AB Cable | KM | 151262 | 3060.00 | 18% | 182100 |
| | | 5(f) LT AERIAL BUNCHED CABLE FITTINGS | | | | | |
| 32 | HWR00019 | Suspension Clamp with eye hook | E | 148 | | 18% | 175 |
| 33 | | LT Connector with Insulator Cover | E | 69 | | 18% | 82 |
| 34 | HWR00009 | Dead-end Clamp with eye hooks | E | 96 | | 18% | 113 |
| | | 5(g) 11 KV XLPE POWER CABLES | | | | | |
| 35 | CBX10002 | 11KV 3 x 35 Sq.mm XLPE UG Cable | KM | 255400 | 8939.00 | 18% | 311920 |
| 36 | CBX10005 | 11KV 3 x 95 Sq.mm XLPE UG Cable | KM | 509885 | 50591.00 | 18% | 661362 |
| 37 | CBX10006 | 11KV 3 x 120 Sq.mm XLPE UG Cable | KM | 543654 | 31482.00 | 18% | 678660 |
| 38 | CBX10007 | 11KV 3 x 185 Sq.mm XLPE UG Cable | KM | 675545 | | 18% | 797143 |
| 39 | CBX10008 | 11KV 3 x 300 Sq.mm XLPE UG Cable | KM | 1046349 | | 18% | 1234692 |
| | | 5(h) 11 KV AB Cable (Aluminum) | | | | | |
| 40 | | 11KV 3x35+35 Sqmm. AB Cable | KM | 224421 | | 18% | 264816 |
| 41 | CBA10005 | 11KV 3x70+70 Sqmm. AB Cable | KM | 291310 | | 18% | 343746 |
| 42 | | 11KV 3x120+70 Sqmm. AB Cable | KM | 435158 | | 18% | 513486 |
| 43 | | 11KV 3x185+70 Sqmm. AB Cable | KM | 582636 | | 18% | 687511 |
| | | 5(i) 33 KV XLPE POWER CABLES | | | | | |
| 44 | CBX30001 | 33KV 3 x 400 Sq.mm XLPE UG Cable | KM | 1624133 | | 18% | 1916477 |
| 45 | | 33KV 3 x 300 Sq.mm XLPE UG Cable | KM | 1439153 | | 18% | 1698201 |
| 46 | CBX30003 | 33KV 3 x 185 Sq.mm XLPE UG Cable | KM | 962000 | 64854.19 | 18% | 1211688 |
| | | 5(j) CABLE JOINTING KITS | | | | | |
| 47 | SCB10038 | 11KV 3CX35 Sq.mm Heat shrinkable Cable End Termination Kits suitable for Indoor type. | E | 4879 | | 18% | 5757 |
| 48 | SCB10037 | 11KV 3CX35 Sq.mm Heat shrinkable Cable End Termination Kits suitable for Outdoor type. | E | 8389 | | 18% | 9900 |
| 49 | SCB10047 | 11KV 3CX185 Sq.mm Heat shrinkable Cable End Termination Kits suitable for Indoor type. | E | 7546 | | 18% | 8905 |
| 50 | SCB10042 | 11KV 3CX185 Sq.mm Heat shrinkable Cable End Termination Kits suitable for Outdoor type. | E | 10123 | | 18% | 11945 |
| 51 | SCB10058 | 11KV 3x300 Sqmm Heat shrinkable cable End Termination Kits suitable for Indoor type. | E | 7429 | | 18% | 8766 |
| 52 | SCB10057 | 11KV 3x300 Sqmm Heat shrinkable cable End Termination Kits suitable for Outdoor type. | E | 11353 | | 18% | 13397 |
| 53 | SCB10068 | 33KV 3X400Sqmm heat shrinkable cable End Termination Kits suitable for Indoor type. | E | 17410 | | 18% | 20543 |
| 54 | SCB10062 | 33KV 3X400Sqmm heat shrinkable cable End Termination Kits suitable for Outdoor type. | E | 26392 | | 18% | 31143 |
| 55 | SCB10028 | 33KV 3X185Sqmm heat shrinkable cable End Termination Kits suitable for Outdoor type. | E | 20010 | | 18% | 23612 |

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| SUB HEAD -6: POWER TRANSFORMERS, CAPACITORS, SECTIONALIZERS, RMU, AUTO-RECLOSURES AND TRASFORMER OIL | | | | | | | |
| 6(a) POWER TRANSFORMERS | | | | | | | |
| 1 | PTR00005 | 33/11 KV 3.15 MVA Power Transformer | E | 2417939 | | 18% | 2853168 |
| 2 | PTR00006 | 33/11 KV 5 MVA Power Transformer | E | 2826799 | 20000.00 | 18% | 3359223 |
| 3 | PTR00008 | 33/11 KV 8 MVA Power Transformer | E | 3737436 | 29000.85 | 18% | 4444396 |
| 4 | PTR10017 | 33/11 KV 10 MVA Power Transformer | E | 4559848 | | 18% | 5380620 |
| 5 | | 33/11 KV 12.5 MVA Power Transformer | E | 5686925 | | 18% | 6710572 |
| 6(b) CAPACITORS | | | | | | | |
| 6 | CPT10027 | 11 KV 2 MVAR Capacitor banks with associated equipment(auto switched) | | | | | |
| | CPT10027 | (i)Type A (incl Capacitor bank, Equipment Structure, Capacitor Switch, LA, RVT, C&R panel with ACU & Earthing Material) | E | 984837 | | 18% | 1162107 |
| | CPT10027 | (ii)Type B with 40 Mtrs HT UG cable | E | 758408 | | 18% | 894921 |
| | CPT10027 | (iii)Type C (Indoor Type) with HT UG cable | E | 1096296 | | 18% | 1293630 |
| 7 | CPT10025 | 11 KV 1 MVAR Capacitor banks with associated equipment (auto switched) | | | | | |
| | CPT10025 | (i)Type A(incl Capacitor bank, Equipment Structure, Capacitor Switch, LA, RVT, C&R panel with ACU & Earthing Material) | E | 892462 | | 18% | 1053105 |
| 8 | | 11 KV 600KVAR auto switched Line Capacitor with associated equipment (Automated power factor controller panel, 200 Amps AB Switch & Single pole structure for mounting) | E | 414019 | | 18% | 488542 |
| 9 | | LT Switched capacitors | | | | | 0 |
| | | (i) 1x9 KVAR | E | 2157 | | 18% | 2545 |
| | | (ii) 1x10 KVAR | E | 2213 | | 18% | 2611 |
| 10 | | 6(c) SECTIONALIZER | | | | | |
| | | Sectionalizers | E | 498154 | | 18% | 587821 |
| 6(d) RMUS | | | | | | | |
| 11 | | 33KV 3-way RMU without VCB | E | 863585 | | 18% | 1019031 |
| 12 | | 33KV 3-way RMU with VCB | E | 1223556 | | 18% | 1443796 |
| 13 | | 33KV switch Fuse unit (SFU) | E | 169312 | | 18% | 199788 |
| 14 | BRK00001 | 11 KV 3 Way RMU (Conventional) | E | 145319 | | 18% | 171476 |
| 15 | BRK00002 | 11 KV SF6 3 Way RMU (SCADA Compatable) | E | 603237 | | 18% | 711820 |
| 16 | BRK00002 (5 way) | 11 KV SF6 5 Way RMU (SCADA Compatable) | E | 1093488 | | 18% | 1290316 |
| 17 | | 11KV switch Fuse unit (SFU) | E | 84656 | | 18% | 99894 |
| 6(e) AUTO-RECLOSURE | | | | | | | |
| 18 | | Auto - Reclosures | E | 783243 | | 18% | 924227 |
| 6(f) TRANSFORMER OIL | | | | | | | |
| 19 | OFO10009 | Transformer Oil | KL | 50800 | | 18% | 59944 |
| SUB HEAD-7: DISTRIBUTION TRANSFORMERS (CRGO) | | | | | | | |
| 1 | DTC10004 | S-Ph 15 KVA DTR 6.3 KV/0-240 V | E | 31765 | | 18% | 37482 |
| 2 | DTC11003 | 1-Phase 10kVA 11kV/250V (CSP) (Aluminium) | E | 23281 | | 18% | 27472 |
| 3 | DTA10005 | S-Ph 16 KVA CSP DTR 6.3 KV/0-240V (Cu) | E | 42632 | 588.00 | 18% | 51000 |
| 4 | DTC10004 | S-Ph 15 KVA CSP DTR 6.3 KV/230-0-230V (Al) | E | 31765 | | 18% | 37482 |
| 5 | | S-Phase 25 KVA (CSP) (Copper) | E | 36902 | | 18% | 43544 |
| 6 | DTA30016 | 3-Ph 16 KVA Amorphous/CRGO core conventional type copper wound DTR with BEE 5 star rating Conventional DTR (Cu) | E | 64418 | 980.00 | 18% | 77170 |
| 7 | DTA30017 | 3-Ph 25 KVA Amorphous/CRGO core conventional type copper wound DTR with BEE 5 star ratingConventional DTR (Cu) | E | 60624 | | 18% | 71536 |
| 8 | DTA30017 | 3-Ph 25 KVA Amorphous/CRGO core conventional type Aluminum wound DTR with BEE 5 star ratingConventional DTR | E | 53329 | 800.00 | 18% | 63872 |
| 9 | DTA30015 | 3-Ph 40 KVA Amorphous/CRGO core conventional type copper wound DTR with BEE 5 star rating Conventional DTR (Cu) | E | 96289 | 1440.00 | 18% | 115320 |

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| 10 | DTA30012 | 3-Ph 63 KVA Amorphous/CRGO core conventional type Al wound DTR with BEE 5 star rating Conventional DTR (Cu) | E | 103266 | 2242.00 | 18% | 124500 |
| 11 | DTA30013 | 3-Ph 100 KVA Amorphous/CRGO core conventional type Al wound DTR with BEE 5 star rating Conventional DTR (Cu) | E | 105483 | 1993.95 | 18% | 126822 |
| 12 | DTA30014 | 3-Ph 160 KVA Amorphous/CRGO core conventional type Al wound DTR with BEE 5 star rating Conventional DTR (Cu) | E | 170820 | 3827.85 | 18% | 206084 |
| 13 | DTC31008 | 3-Ph 250 KVA CSP DTR (Cu) | E | 300405 | | 18% | 354477 |
| 14 | DTC31112 | 3-Ph 315 KVA CSP DTR (Cu) Conventional | E | 535512 | 6000.00 | 18% | 638984 |
| 15 | DTG00002 | 3-Ph 500 KVA Conventional (Al) | E | 640010 | | 18% | 755212 |
| SUB HEAD -8: SWITCH CONTROL AND PROTECTIVE GEAR | | | | | | | |
| 8(a) 33KV & 11KV VCBs | | | | | | | |
| 1 | BRK30004 | 33 KV VCB with CTs & CR panels with differential protection | E | 419584 | 11500.00 | 18% | 508679 |
| 2 | BRK30005 | 33 KV VCB with CTs & CR panels without differential protection | E | 409688 | | 18% | 483431 |
| 3 | BRK30002 | 33KV Feeder VCBs with CTs & CR panels | E | 384750 | 11500.00 | 18% | 467575 |
| 4 | BRK30024 | 33KV 220V DC VCB with twin feeder C&R panel | E | 513267 | | 18% | 605655 |
| 5 | BRK30014 | 33KV Twin feeder control and relay panel (220V DC) | E | 241276 | | 18% | 284706 |
| 6 | BRK10002 | 11 KV VCB with CTs & Panels (Feeder Control) | E | 226293 | 9500.00 | 18% | 278236 |
| 7 | BRK10009 | 11 KV VCB with CTs & Panels (LV Control) with differential protection | E | 279888 | 9500.00 | 18% | 341478 |
| 8 | BRK10014 | 11 KV VCB with CTs & Panels (LV Control) without differential protection | E | 239000 | 9250.00 | 18% | 292935 |
| 9 | | 11KV VCB Indoor Type Switchgear without differential protection(LV Control) | E | 318618 | | 18% | 375969 |
| 10 | | 11KV VCB Indoor Type Switchgear for Feeder Type | E | 232651 | | 18% | 274528 |
| 11 | | 11KV VCB Indoor Type Switchgear for Bus coupler | E | 178351 | | 18% | 210454 |
| 8(b) 33KV & 11KV CTs | | | | | | | |
| 12 | ITR30028 | 33KV CTs 400-200-100/1-1-1A ratio 0.2s CL | E | 19804 | | 18% | 23369 |
| 13 | ITR30030 | 33KV CTs 400-200-100/1-1A ratio 0.5 CL | E | 19804 | | 18% | 23369 |
| 14 | ITR30019 | 33KV CTs (200-100/1-1A) 0.2 CL | E | 19894 | | 18% | 23475 |
| 15 | ITR30029 | 33KV CTs (100-50/1-1A) 0.2 CL | E | 19804 | | 18% | 23369 |
| 16 | ITR30005 | 33KV Metering CTs 25/1A 0.2CL | E | 14303 | | 18% | 16877 |
| 17 | ITR30004 | 33KV Metering CTs 50/1A 0.2CL | E | 14303 | | 18% | 16877 |
| 18 | ITR30003 | 33KV Metering CTs 100/1A, 150/1A 0.2s CL | E | 13463 | | 18% | 15886 |
| 19 | | 33KV Indoor Epoxy Resin Cast CTs 400-200-100/1-1-1A ratio 0.2s CL | E | 20676 | | 18% | 24398 |
| 20 | | 33KV Indoor Epoxy Resin Cast CTs (200-100/1-1A) 0.2 CL | E | 22621 | | 18% | 26693 |
| 21 | ITR10012 | 11 KV feeder CTs (400-200-100/1-1A) (0.5 class) | E | 14187 | | 18% | 16740 |
| 22 | ITR10015 | 11 KV CTs (50-25/1-1A) | E | 12394 | | 18% | 14625 |
| 23 | ITR10018 | 11 KV CTs 200-100/5-5A | E | 12244 | | 18% | 14448 |
| 24 | ITR10013 | 11 KV CTs 400-200/1-1A | E | 11483 | | 18% | 13550 |
| 25 | ITR10037 | 11KV CTs 400-200-100/1-1A0.2s CL | E | 11483 | | 18% | 13550 |
| 26 | ITR10014 | 11 KV CTs 200-100/1-1A | E | 11111 | | 18% | 13111 |
| 27 | ITR10023 | 11 KV CTs (600-300/1-1-0.577A) of 0.2s class | E | 14572 | 467.83 | 18% | 17747 |
| 28 | ITR10023 | 11 KV CTs (600-300-150/1-1-0.577A) of 0.2s class | E | 14872 | | 18% | 17549 |
| 29 | | 11KV Indoor Epoxy Resin Cast CTs 400-200-100/1-1A ratio 0.5 CL | E | 20275 | 1248.00 | 18% | 25397 |
| 30 | | 11KV Indoor Epoxy Resin Cast CTs (200-100/1-1A) 0.2 CL | E | 9016 | 649.00 | 18% | 11405 |
| 8(c) 33KV & 11KV PTs | | | | | | | |
| 31 | ITR30001 | 33 KV PT (Single Phase) class 0.5,100VA | E | 17554 | | 18% | 20714 |
| 32 | ITR30020 | 33 KV PT (Single Phase) class 0.2,100VA | E | 15038 | 2244.01 | 18% | 20393 |
| 33 | ITR30017 | 33 KV PT (Three Phase) class 0.5 | E | 37471 | | 18% | 44216 |
| 34 | ITR10021 | 11 KV PT (3 Phase) | E | 15827 | 480.02 | 18% | 19243 |
| 8(d) AB Switches, LAs, HG Fuse sets, Batteries, Capacitors, RMUs etc. | | | | | | | |
| (i) AB Switches | | | | | | | |
| 35 | ABS30004 | 33 KV 800 Amps AB Switch Double break with solid core insulator(Pipe/Knife)Type | E | 25470 | | 18% | 30055 |
| 36 | ABS10015 | 11 KV 800 Amps AB Switch Double break with insulator(Pipe/Knife)Type | E | 23039 | | 18% | 27186 |
| 37 | ABS10009 | 11 KV 400 Amps AB Switch Double break with insulators | E | 10499 | | 18% | 12389 |
| 38 | ABS10004 | 11 KV 200 Amps AB Switch Single break with insulators | E | 6282 | | 18% | 7413 |
| 39 | ABS10002 | 11 KV 200 Amps AB Switch (Tilting) Porcelain type insulators | E | 7309 | 146.18 | 18% | 8797 |
| 40 | ABS10016 | 11 KV 200 Amps AB Switch (Tilting) polymer type insulators | E | 4854 | | 18% | 5727 |
| 41 | ABS10018 | 6.3KV Single Phase 100A TT AB switches with insulators | E | 3714 | | 18% | 4383 |

| Sl. No. | SAP Code | Name of the Material | Unit | Ex-Works Price in Rs. | F&I in Rs. | %GST (Applicable) | Unit Rate in Rs. |
|---|----------|---|------|-----------------------|------------|-------------------|------------------|
| | | (ii) Lighting Arresters | | | | | |
| 42 | LAS00004 | 33 KV 10 KA Metal Oxide Lightning Arrester (station type) | E | 2980 | 80.90 | 18% | 3611 |
| 43 | LAS00003 | 33 KV 10 KA Metal Oxide Lightning Arrester (Line type) | E | 1891 | 50.00 | 18% | 2290 |
| 44 | LAS00002 | 9 KV 10 KA Metal Oxide Lighting Arrester (station type) | E | 1589 | 60.72 | 18% | 1947 |
| 45 | LAS00001 | 9 KV 5 KA Metal Oxide Lighting Arrester (line type) | E | 283 | 10.00 | 18% | 346 |
| | | (iii) HG Fuse Sets | | | | | |
| 46 | HGF30002 | 33 KV HG Fuse set with insulators | Set | 8000 | | 18% | 9440 |
| 47 | HGF10002 | 11 KV HG Fuse Set with insulators | Set | 1505 | | 18% | 1776 |
| 48 | HGF10003 | 6.3 KV HG Fuse Set with insulators | Set | 693 | | 18% | 818 |
| 49 | HGF00004 | LT HG Fuse Set with insulators | Set | 1064 | | 18% | 1255 |
| | | (iv) Batteries & Chargers | | | | | |
| 50 | BAT00027 | 24V, 40 AH Battery set including Battery charger of conventional type | E | 19706 | | 18% | 23253 |
| 51 | BAT00026 | 24 Volts 40 AH Battery set without Battery charger | E | 5823 | | 18% | 6872 |
| 52 | BAT00009 | 12 V, 40 AH SMF Batteries cells | E | 3575 | | 18% | 4219 |
| 53 | BAT00015 | 12 V, 80 AH SMF Batteries cells | E | 5381 | | 18% | 6350 |
| 54 | BAT00020 | 220 V, 80 AH SMF Batteries and Chargers & DCDB | E | 198793 | | 18% | 234575 |
| 55 | BAT00022 | 220 V, 80 AH SMF Batteries | E | 170543 | | 18% | 201241 |
| SUB HEAD-9: ENERGY METERS , METERING EQUIPMENT AND BOXES | | | | | | | |
| | | 9(a) Energy Meters | | | | | |
| 1 | MTE10002 | 1-Ph 5-20A High quality Meter Class 1 | E | 637 | | 18% | 751 |
| 2 | MTE10019 | 1 Ph 5-30A IrDa Meter, Sup Capacitor - PP Box | E | 526 | 15.59 | 18% | 639 |
| 3 | MTE10015 | 1-Ph 2.5-10A Electronic Energy Meter | E | 378 | | 18% | 447 |
| 4 | MTE10019 | 1-Ph 5-30A Meter (push fit type box Non push fit type TC) Class 1 | E | 674 | | 18% | 795 |
| 5 | MTE10024 | 1-Ph 5-30A IrDa Net meter with PP Box | E | 2950 | 29.87 | 18% | 3516 |
| 6 | MTE30019 | 3-Ph 10-60A Net meter with PP Box | E | 1405 | 9.96 | 18% | 1670 |
| 7 | MTE30022 | 3-Ph 3x(5-30)A IRDA Electronic Meter with P P Box | E | 1341 | 18.20 | 18% | 1604 |
| 8 | MTE30001 | 3-Ph 3x(10-40)A Electronic Meter with P P Box | E | 1904 | | 18% | 2247 |
| 9 | MTE30020 | 3-Ph 3x(10-40)A High Quality Meter (Counter type display without Box) | E | 1820 | | 18% | 2148 |
| 10 | MCT30036 | 200/5A 3-Ph CT Operated Electronic LT TVR Meter Class 0.5 with PP Box | E | 4800 | | 18% | 5664 |
| 11 | MCT30035 | 125/5A 3-Ph CT Operated Electronic LT TVR Meter Class 0.5 with PP Box | E | 6104 | | 18% | 7202 |
| 12 | MCT30051 | 125/5A 3-Ph CT Operated Electronic LT TVR Meter Class 0.5s with DLMS Class C with PP Box. | E | 4928 | 241.14 | 18% | 6099 |
| 13 | MHT10003 | 10/5A,20/5A,30/5A,40/5A,50/5A,60/5A,75/5A HT TVR Meter Class 0.5 | E | 3889 | | 18% | 4589 |
| 14 | MHT10047 | 200/1A,100/1A HT TVR Meter Class 0.5 | E | 3889 | | 18% | 4589 |
| 15 | MHT10055 | HTTVR 3Ph 4W 11KV/110V 10/5A 0.5S 30Min DLMS-C | E | 4944 | 20.00 | 18% | 5858 |
| 16 | MHT10052 | HTTVR 3Ph 4W 11KV/110V 200/1A 0.2S 30Min DLMS-A | E | 6255 | | 18% | 7381 |
| 17 | MHT30062 | HTTVR 3Ph 4W 33KV/110V 200/1A,100/1A 0.2S 15Min IP DLMS | E | 6255 | | 18% | 7381 |
| 18 | MHT30061 | HTTVR 3Ph 4W 33KV/110V 200/1A,100/1A 0.2S 30Min IP DLMS | E | 8938 | | 18% | 10547 |
| 19 | MHT30053 | HTTVR 3Ph 4W 132KV/110V 200/1A,100/1A 0.2S 15Min IP DLMS | E | 13436 | | 18% | 15855 |
| 20 | MHT30055 | HTTVR 3Ph 4W 132KV/110V 200/1A,100/1A 0.2S 30Min IP DLMS | E | 14257 | | 18% | 16823 |
| 21 | MHT30056 | HTTVR 3Ph 4W 200KV/110V 100/1A 0.2S 15Min IP DLMS | E | 14257 | | 18% | 16823 |
| 22 | MHT30060 | 11KV-400KV/110V,(40A-1000A) ABT Energy meters 0.2S Class | E | 56454 | | 18% | 66615 |
| 23 | OMT10049 | AMR Unit for DTRs, Feeders and High load services | E | 5079 | | 18% | 5994 |
| | | 9(b) 11KV Metering Cubicles | | | | | |
| 25 | | 11KV Metering Panel with CTs & PTs (Indoor) | E | 126984 | | 18% | 149841 |
| 26 | | 33KV Metering Panel with CTs & PTs (Indoor) | E | 253968 | | 18% | 299683 |
| 27 | ITR10047 | 11KV C.T.P.T. set 10/5A | E | 31323 | | 18% | 36961 |
| 28 | ITR10004 | 11KV C.T.P.T. set 5/5A | E | 30908 | 489.92 | 18% | 37050 |
| 29 | ITR10039 | 10/5 A class 0.2S (Outdoor Type) | E | 24995 | 3269.00 | 18% | 33352 |
| 30 | ITR10030 | 10/5 A class 0.2S (Indoor Type) | E | 36306 | | 18% | 42841 |
| 31 | ITR10040 | 20/5 A class 0.2S (Outdoor Type) | E | 24995 | 3269.00 | 18% | 33352 |
| 32 | ITR10031 | 20/5 A class 0.2S (Indoor Type) | E | 36306 | | 18% | 42841 |
| 33 | ITR10029 | 30/5A class 0.2S (Outdoor Type) | E | 24995 | 3269.00 | 18% | 33352 |
| 34 | ITR10006 | 40/5A class 0.2S (Outdoor Type) | E | 24995 | 3269.00 | 18% | 33352 |

| Sl. No. | SAP Code | Name of the Material | Unit | Ex-Works Price in Rs. | F&I in Rs. | %GST (Applicable) | Unit Rate in Rs. |
|---|----------|--|------|-----------------------|------------|-------------------|------------------|
| 35 | ITR10035 | 40/5A class 0.2S (Indoor Type) | E | 25388 | | 18% | 29958 |
| 36 | ITR10041 | 60/5 A class 0.2S (Outdoor Type) | E | 37674 | | 18% | 44455 |
| 37 | ITR10042 | 75/5 A class 0.2S (Outdoor Type) | E | 24995 | 3269.00 | 18% | 33352 |
| | | 9(c) Meter Boxes, A-Type Distribution Boxes & B-Type Distribution Box | | | | | |
| 38 | BXS00024 | 1-Ph Moulded Meter Box | E | 323 | | 18% | 381 |
| 39 | BXS00029 | 1-Ph SMC Meter Box with fixing clamps | E | 345 | | 18% | 408 |
| 40 | BXS00024 | 3-Ph Moulded Meter Box | E | 449 | | 18% | 529 |
| 41 | BXS00028 | 3-Ph SMC Meter Box with fixing clamps | E | 620 | | 18% | 731 |
| 42 | BXS00033 | CT Operated Moulded Meter box | E | 1657 | | 18% | 1955 |
| 43 | BXS00004 | HT Meter Box | E | 3827 | | 18% | 4515 |
| 44 | BXS00022 | A Type Distribution Box with 300A,500V Knife type Fuse Units for 2-Feeders | E | 5879 | | 18% | 6937 |
| 45 | BXS00022 | A Type Distribution Box with 200A,100A 500V Knife type Fuse Units for 1-Feeders | E | 2492 | | 18% | 2941 |
| 46 | BXS00034 | A Type Distribution Box with 200A, 100A, 500V Knife type Fuse Units for 1-Feeders(SMC) | E | 4266 | 104.77 | 18% | 5158 |
| 47 | BXS00034 | A Type Distribution Box with 300A, 500V Knife type Fuse Units for 2-Feeders(SMC) | E | 11125 | 234.07 | 18% | 13404 |
| 48 | BXS00021 | B Type Distribution Box for Street Light | E | 1520 | | 18% | 1794 |
| 49 | SFU10034 | Fuse Unit with knife type 100A,500V | E | 373 | | 18% | 440 |
| 50 | | Fuse Unit with knife type 200A,500V | E | 201 | | 18% | 237 |
| 51 | SFU10037 | Fuse Unit with knife type 300A,500V | E | 539 | | 18% | 636 |
| SUB HEAD -10: EARTHING MATERIALS | | | | | | | |
| 1 | | GI Earth pipe 40 mm , (1.8 mts. Length) | E | 354 | | 18% | 418 |
| 2 | EMT00020 | GI Earth pipe 40 mm (2.5 mts. Length) | E | 435 | 27.00 | 18% | 545 |
| 3 | EMT00006 | CI Earth pipe 80mm dia, (2.5 mts. Length) | E | 2294 | | 18% | 2707 |
| SUB HEAD-11: OTHER MATERIALS | | | | | | | |
| 1 | SSB10107 | 11KV CT Through Clamp | E | 137 | | 18% | 162 |
| 2 | SAB10016 | 100sq.mm conductor Pad-Clamp for AB Switch Fixed Contacts | E | 102 | | 18% | 121 |
| 3 | SSB10118 | Pipe-Panther T-Clamp | E | 159 | | 18% | 188 |
| 4 | SSB10021 | Panther-Panther T-Clamp | E | 88 | | 18% | 104 |
| 5 | SSB10015 | Dead end Clamp for Pipe type Bus (Single end) | E | 97 | | 18% | 114 |
| 6 | SSB10020 | Dead end Clamp for Pipe type Bus (Double end) | E | 168 | | 18% | 198 |
| 7 | SAB10001 | 11KV 200A Fixed Contacts for Tilting Type AB Switch | E | 216 | | 18% | 255 |
| 8 | SAB10002 | 11KV 200A Moving Contacts for Tilting Type AB Switch | E | 216 | | 18% | 255 |
| 9 | SAB10006 | 11KV 200A Fixed Contacts for Horizontal AB Switch | E | 264 | | 18% | 312 |
| 10 | SAB10007 | 11KV 200A Moving Contacts for Horizontal AB Switch | E | 482 | | 18% | 569 |
| 11 | SAB10009 | 11KV 400A Fixed Contacts for Horizontal AB Switch | E | 311 | | 18% | 367 |
| 12 | SAB10010 | 11KV 400A Moving Contacts for Horizontal AB Switch | E | 544 | | 18% | 642 |
| 13 | SAB10012 | 11KV 800A Fixed Contacts for Horizontal AB Switch (Pipe Type) | E | 1044 | | 18% | 1232 |
| 14 | SAB10013 | 11KV 800A Moving Contacts for Horizontal AB Switch (Pipe Type) | E | 1800 | | 18% | 2124 |
| 15 | SAB30005 | 33KV 800A Fixed Contacts for Horizontal AB Switch (Pipe Type) | E | 1044 | | 18% | 1232 |
| 16 | SAB30006 | 33KV 800A Moving Contacts for Horizontal AB Switch (Pipe Type) | E | 1980 | | 18% | 2336 |
| 17 | OMT10046 | Hand Held Computers with Printer Spot Billing Machine | E | 6895 | | 18% | 8136 |
| 18 | CAH00160 | Hand Held Computers with Printer Spot Collection Machine | E | 16102 | | 18% | 19000 |
| 19 | OMT10004 | CMRI with accessories | E | 26769 | | 18% | 31588 |

**COST DATA FOR HILLY AND TRIBAL AREAS
AS ADOPTED BY IRRIGATION DEPARTMENT IN THE STATE**

For hilly and tribal areas, the following EXTRA RATES are allowed over and above approved cost data of labour.

a. 25% extra is allowed for the works located within the interior Agency / Tribal limits. (i.e.) for the works located within and upto 16 Kilometers from any all weather route inside Agency/Tribal.

a. 50% extra is allowed for the works located within the interior Agency / Tribal Area i.e., for the works located beyond 16 Kilometers from any all weather route inside Agency/Tribal.

Note:

- 1 No extra percentage is permissible in respect of Forest produce such as Bamboo, Rellu grass and all materials obtained from outside the Agency/Tribal.
- 2 The extra percentage under Agency/Tribal areas allowance may be allowed on the labour component and on the labour charges in the rates for conveyance of materials.
- 3 The extra percentage on cost of materials in Agency/Tribal areas can be allowed on the labour component only, if they are manufactured in the Agency/Tribal areas itself except Forest produce.

1. Costdata per Km of 33 KV Line (Double Circuit) with 100 Sq.mm AAA Conductor over M+12 Towers at 100 Mts. Span, 100 Kg/Sq.Mt wind pressure, working load 350 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|----------|--|------|-------------|----------|----------------|
| 1 | | M+12 Towers | 11 | 251655 | Each | 2768202 |
| 2 | CDR00004 | 100 Sq.mm AAA Conductor | 6.12 | 44898.23 | K.M. | 274777 |
| 3 | INS30007 | 33 KV Polymer Pin - Insulator | 12 | 369 | Each | 4428 |
| 4 | HWR00003 | 33 KV GI Pin | 12 | 164 | Each | 1970 |
| 5 | INS30004 | 33 KV Polymer Strain discs excluding bolts and nuts | 66 | 279 | Each | 18414 |
| 6 | HWR00004 | 33 KV String Insulator Fittings (B&S) | 66 | 183 | Each | 12071 |
| 7 | | Concreting of Towers | LS | LS | LS | 474030 |
| 8 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | LS | LS | LS | 3516 |
| Total Cost of Material | | | | | | 3557408 |
| 3% storage & handling charges on items (1) to (4) | | | | 3079862 | | 92396 |
| 3% Contingencies on Materials | | | | | | 106722 |
| Labour | | | | | | 938377 |
| Transport | | | | | | 177870 |
| GST @ 18% on Labour & Transport | | | | | | 200925 |
| 1% Cess | | | | | | 46737 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 391315 |
| Total | | | | | | 5511749 |
| or say | | | | | | 5511750 |
| Lakhs | | | | | | 55.12 |

**2. Costdata per Km of 33 KV Line (Single Circuit) with 100 Sq.mm AAA Conductor over 12.5 Mts.Spun Poles at 60 Mts. Span,
100 Kg/Sq.Mt wind pressure, working load 350 Kgs.**

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00008 | 12.5M Spun Pole | 18 | 12270 | Each | 220858 |
| 2 | PLS00004 | 9.1M PSCC Poles for Struts | 4 | 3275 | Each | 13098 |
| 3 | FBR30028 | 33KV 1.53M V-Cross Arm (Channel) without clamps | 16 | 984 | Each | 15746 |
| 4 | FBR30006 | 33KV Top Clamp with cleat | 16 | 587 | Each | 9398 |
| 5 | FBR30016 | 33KV Tapping Channel Cross Arms | 3 | 1268 | Each | 3803 |
| 6 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 1 | 8645 | Set | 8645 |
| 7 | FBR00047 | MS Back Clamps for Spun poles | 19 | 134 | Each | 2552 |
| 8 | FBR00016 | MS Stay sets Complete with base plate | 4 | 401 | Each | 1602 |
| 9 | FBR00004 | MS Stay clamp for Strut poles | 8 | 272 | Set | 2174 |
| 10 | CDR00004 | 100 Sq.mm AAA Conductor | 3.06 | 44898 | K.M. | 137389 |
| 11 | INS30001 | 33 KV Pin - Insulator | 48 | 253 | Each | 12136 |
| 12 | HWR00003 | 33 KV GI Pin | 48 | 164 | Each | 7881 |
| 13 | INS30004 | Strain Insulator set with metal parts | 12 | 279 | Each | 3348 |
| 14 | HWR00004 | 33 KV String Insulator Fittings (B&S) | 12 | 183 | Each | 2195 |
| 15 | | Concreting of Pole, Stay sets & Base concreting | LS | LS | LS | 100438 |
| 16 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts. etc. | LS | LS | LS | 3516 |
| Total Cost of Material | | | | | | 544779 |
| 3% storage & handling charges on items (1) to (12) | | | | 440825 | | 13225 |
| 3% Contingencies on Materials | | | | | | 16343 |
| Labour | | | | | | 136195 |
| Transport | | | | | | 27239 |
| GST @ 18% on Labour & Transport | | | | | | 29418 |
| 1% Cess | | | | | | 7082 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 59926 |
| Total | | | | | | 834206 |
| or say | | | | | | 8,34,210 |
| Lakhs | | | | | | 8.342 |

**3.Costdata per Km of 33 KV Line (Double Circuit) with 100 Sq.mm AAA Conductor over 12.5 Mts.Spun Poles at 60 Mts. Span,
100 Kg/Sq.Mt wind pressure, working load 350 Kgs.**

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|------------------|
| 1 | PLS00008 | 12.5 mts Spun Pole | 18 | 12270 | Each | 220858 |
| 2 | PLS00004 | 9.1mts PSCC Poles for strut | 8 | 3275 | Each | 26196 |
| 3 | FBR30028 | 33KV V cross arms without clamps | 45 | 984 | Each | 44285 |
| 4 | FBR30016 | 33KV Tapping Channel "X" Arms | 12 | 1268 | Each | 15212 |
| 5 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 3 | 8645 | Set | 25935 |
| 6 | FBR00047 | 33KV MS Back Clamps for spun poles | 57 | 134 | Each | 7656 |
| 7 | CDR00004 | 100 Sq.mm AAA Conductor | 6.12 | 44898 | K.M. | 274777 |
| 8 | INS30001 | 33 KV Pin - Insulator | 96 | 253 | Each | 24273 |
| 9 | HWR00003 | 33 KV GI Pin | 96 | 164 | Each | 15762 |
| 10 | FBR00016 | MS Stay sets Complete with base plate | 4 | 401 | Each | 1602 |
| 11 | INS30004 | Strain Insulator set | 24 | 279 | Each | 6696 |
| 12 | HWR00004 | 33 KV String Insulator Fittings (B&S) | 24 | 183 | Each | 4390 |
| 13 | FBR00004 | MS Stay Clamps for Strut poles | 16 | 272 | Each | 4347 |
| 14 | | Concreting of Pole, Stay sets & Base concreting | LS | 272 | LS | 106179 |
| 15 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | LS | | LS | 3516 |
| Total Cost of Material | | | | | | 781684 |
| 3% storage & handling charges on items (1) to (11) | | | | 671989 | | 20160 |
| 3% Contingencies on Materials | | | | | | 23451 |
| Labour | | | | | | 195421 |
| Transport | | | | | | 39084 |
| GST @ 18% on Labour & Transport | | | | | | 42211 |
| 1% Cess | | | | | | 10162 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 85985 |
| Total | | | | | | 1198158 |
| or say | | | | | | 11,98,160 |
| Lakhs | | | | | | 11.982 |

4. Cost data per Km of 33 KV Line (Single Circuit) with 100 Sq.mm AAA Conductor over 11.0 Mts. Spun Poles at 60 Mts. Span, 100 Kg/Sq.Mt wind pressure, working load 350 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00007 | 11.0M Spun Pole | 18 | 11234 | Each | 202210 |
| 2 | PLS00004 | 9.1M PSCC Poles for Struts | 4 | 3275 | Each | 13098 |
| 3 | FBR30028 | 33KV 1.53M V-Cross Arm (Channel) without clamps | 16 | 984 | Each | 15746 |
| 4 | FBR30006 | 33KV Top Clamp with cleat | 16 | 587 | Each | 9398 |
| 5 | FBR30016 | 33KV Tapping Channel Cross Arms | 3 | 1268 | Each | 3803 |
| 6 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 1 | 8645 | Set | 8645 |
| 7 | FBR00047 | MS Back Clamps for Spun poles | 19 | 134 | Each | 2552 |
| 8 | FBR00016 | MS Stay sets Complete with base plate | 4 | 401 | Each | 1602 |
| 9 | FBR00004 | MS Stay clamp for Strut poles | 8 | 272 | Set | 2174 |
| 10 | CDR00004 | 100 Sq.mm AAA Conductor | 3.06 | 44898 | K.M. | 137389 |
| 11 | INS30001 | 33 KV Pin - Insulator | 48 | 253 | Each | 12136 |
| 12 | HWR00003 | 33 KV GI Pin | 48 | 164 | Each | 7881 |
| 13 | INS30004 | Strain Insulator set | 12 | 279 | Each | 3348 |
| 14 | HWR00004 | 33 KV String Insulator Fittings (B&S) | 12 | 183 | Each | 2195 |
| 15 | | Concreting of Pole, Stay sets & Base concreting | LS | LS | LS | 100438 |
| 16 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | LS | LS | LS | 3516 |
| Total Cost of Material | | | | | | 526131 |
| 3% storage & handling charges on items (1) to (12) | | | | 422177 | | 12665 |
| 3% Contingencies on Materials | | | | | | 15784 |
| Labour | | | | | | 131533 |
| Transport | | | | | | 26307 |
| GST @ 18% on Labour & Transport | | | | | | 28411 |
| 1% Cess | | | | | | 6840 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 57874 |
| Total | | | | | | 805544 |
| or say | | | | | | 8,05,540 |
| Lakhs | | | | | | 8.055 |

**5.Costdata per Km of 33 KV Line (Single Circuit) with 100 Sq.mm AAA Conductor over 11.0 Mts.PSCC Poles at 60 Mts. Span,
100 Kg/Sq.Mt wind pressure, working load 350 Kgs.**

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00013 | 11.0M PSCC Pole | 18 | 6879 | Each | 123818 |
| 2 | PLS00004 | 9.1M PSCC Poles for Struts | 4 | 3275 | Each | 13098 |
| 3 | FBR30028 | 33KV 1.53M V-Cross Arm (Channel) without clamps | 16 | 984 | Each | 15746 |
| 4 | FBR30006 | 33KV Top Clamp with cleat | 16 | 587 | Each | 9398 |
| 5 | FBR30016 | 33KV Tapping Channel Cross Arms | 3 | 1268 | Each | 3803 |
| 6 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 1 | 8645 | Set | 8645 |
| 7 | FBR00047 | MS Back Clamps for 11.0M PSCC poles | 19 | 134 | Each | 2552 |
| 8 | FBR00016 | MS Stay sets Complete with base plate | 4 | 401 | Each | 1602 |
| 9 | FBR00004 | MS Stay clamp for Strut poles | 8 | 272 | Set | 2174 |
| 10 | CDR00004 | 100 Sq.mm AAA Conductor | 3.06 | 44898 | K.M. | 137389 |
| 11 | INS30001 | 33 KV Pin - Insulator | 48 | 253 | Each | 12136 |
| 12 | HWR00003 | 33 KV GI Pin | 48 | 164 | Each | 7881 |
| 13 | INS30004 | Strain Insulator set | 12 | 279 | Each | 3348 |
| 14 | HWR00004 | 33 KV String Insulator Fittings (B&S) | 12 | 183 | Each | 2195 |
| 15 | | Concreting of Pole, Stay sets & Base concreting | LS | LS | LS | 33390 |
| 16 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | LS | LS | LS | 3516 |
| Total Cost of Material | | | | | | 380691 |
| 3% storage & handling charges on items (1) to (12) | | | | 343785 | | 10314 |
| 3% Contingencies on Materials | | | | | | 11421 |
| Labour | | | | | | 95173 |
| Transport | | | | | | 19035 |
| GST @ 18% on Labour & Transport | | | | | | 20557 |
| 1% Cess | | | | | | 4949 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 41876 |
| Total | | | | | | 584015 |
| or say | | | | | | 5,84,020 |
| Lakhs | | | | | | 5.840 |

6. Cost data per Km of 33 KV Line (Single Circuit) with 100 Sq.mm AAA Conductor over 9.1 Mts. PSCC Poles at 60 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 350 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00004 | 9.10M PSCC Pole | 18 | 3275 | Each | 58941 |
| 2 | PLS00002 | 8.0 M PSCC Poles for Struts | 4 | 1992 | Each | 7967 |
| 3 | FBR30028 | 33KV 1.53M V-Cross Arm (Channel) without clamps | 16 | 984 | Each | 15746 |
| 4 | FBR30006 | 33KV Top Clamp with cleat | 16 | 587 | Each | 9398 |
| 5 | FBR30016 | 33KV Tapping Channel Cross Arms | 3 | 1268 | Each | 3803 |
| 6 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 1 | 8645 | Set | 8645 |
| 7 | FBR00047 | MS Back Clamps for 9.1M PSCC poles | 19 | 134 | Each | 2552 |
| 8 | FBR00016 | MS Stay sets Complete with base plate | 4 | 401 | Each | 1602 |
| 9 | FBR00004 | MS Stay clamp for Strut poles | 8 | 272 | Set | 2174 |
| 10 | CDR00004 | 100 Sq.mm AAA Conductor | 3.06 | 44898 | K.M. | 137389 |
| 11 | INS30001 | 33 KV Pin - Insulator | 48 | 253 | Each | 12136 |
| 12 | HWR00003 | 33 KV GI Pin | 48 | 164 | Each | 7881 |
| 13 | INS30004 | Strain Insulator set | 12 | 279 | Each | 3348 |
| 14 | HWR00004 | 33 KV String Insulator Fittings (B&S) | 12 | 183 | Each | 2195 |
| 15 | | Concreting of Pole, Stay sets & Base concreting | LS | LS | LS | 21799 |
| 16 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | LS | LS | LS | 3516 |
| Total Cost of Material | | | | | | 299092 |
| 3% storage & handling charges on items (1) to (12) | | | | 273777 | | 8213 |
| 3% Contingencies on Materials | | | | | | 8973 |
| Labour | | | | | | 74773 |
| Transport | | | | | | 14955 |
| GST @ 18% on Labour & Transport | | | | | | 16151 |
| 1% Cess | | | | | | 3888 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 32900 |
| Total | | | | | | 458944 |
| or say | | | | | | 4,58,940 |
| Lakhs | | | | | | 4.589 |

7. Cost data per Km of 11 KV Line (Single Circuit) with 100 Sq.mm AAA Conductor over 9.5 Mts. Spun Poles at 50 Mts. Span, 100 Kg/Sq.Mt wind pressure, working load 350 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00015 | 9.5M Spun Pole | 22 | 10347 | Each | 227635 |
| 2 | PLS00002 | 8.0M PSCC Poles for Struts | 4 | 1992 | Each | 7967 |
| 3 | FBR10002 | 11KV 1.53M V-Cross Arm (Channel) without clamps | 20 | 477 | Each | 9540 |
| 4 | FBR10007 | 11KV Top Clamp with cleat | 20 | 173 | Each | 3469 |
| 5 | FBR10004 | 11KV Tapping Channel Cross Arms | 3 | 448 | Each | 1345 |
| 6 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 1 | 5672 | Set | 5672 |
| 7 | FBR00047 | MS Back Clamps for Spun poles | 23 | 134 | Each | 3089 |
| 8 | FBR10010 | MS Stay sets Complete with base plate | 4 | 376 | Each | 1504 |
| 9 | FBR00016 | MS Stay clamp for Strut poles | 8 | 401 | Set | 3205 |
| 10 | CDR00004 | 100 Sq.mm AAA Conductor | 3.06 | 44898 | K.M. | 137389 |
| 11 | INS10001 | 11KV Pin - Insulator | 60 | 63 | Each | 3761 |
| 12 | HWR00001 | 11KV GI Pin | 60 | 61 | Each | 3689 |
| 13 | INS10003 | Strain Insulators | 12 | 287 | Each | 3448 |
| 14 | HWR00002 | Strain Insulator Fittings (C&T) | 12 | 82 | Each | 983 |
| 15 | | Concreting of Pole, Stay sets & Base concreting | LS | LS | LS | 119179 |
| 16 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | LS | LS | LS | 3516 |
| Total Cost of Material | | | | | | 535391 |
| 3% storage & handling charges on items (1) to (12) | | | | 412696 | | 12381 |
| 3% Contingencies on Materials | | | | | | 16062 |
| Labour | | | | | | 133848 |
| Transport | | | | | | 26770 |
| GST @ 18% on Labour & Transport | | | | | | 28911 |
| 1% Cess | | | | | | 6960 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 58893 |
| Total | | | | | | 819216 |
| or say | | | | | | 8,19,220 |
| Lakhs | | | | | | 8.192 |

**8.Costdata per Km of 11 KV Line (Single Circuit) with 100 Sq.mm AAA Conductor over 9.1 Mts. PSCC Poles at 50 Mts. Span,
75 Kg/Sq.Mt wind pressure, working load 280 Kgs.**

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00004 | 9.1M PSCC Pole | 22 | 3275 | Each | 72039 |
| 2 | PLS00002 | 8.0M PSCC Poles for Struts | 4 | 1992 | Each | 7967 |
| 3 | FBR10002 | 11KV 1.53M V-Cross Arm (Channel) without clamps | 20 | 477 | Each | 9540 |
| 4 | FBR10007 | 11KV Top Clamp with cleat | 20 | 173 | Each | 3469 |
| 5 | FBR10004 | 11KV Tapping Channel Cross Arms | 3 | 448 | Each | 1345 |
| 6 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 1 | 5672 | Set | 5672 |
| 7 | FBR00002 | MS Back Clamps for 9.1M PSCC poles | 23 | 87 | Each | 2001 |
| 8 | FBR10010 | MS Stay sets Complete with base plate | 4 | 376 | Each | 1504 |
| 9 | FBR00004 | MS Stay clamp for Strut poles | 8 | 59 | Set | 471 |
| 10 | CDR00004 | 100 Sq.mm AAA Conductor | 3.06 | 44898 | K.M. | 137389 |
| 11 | INS10001 | 11KV Pin - Insulator | 60 | 63 | Each | 3761 |
| 12 | HWR00001 | 11KV GI Pin | 60 | 61 | Each | 3689 |
| 13 | INS10003 | Strain Insulators | 12 | 287 | Each | 3448 |
| 14 | HWR00002 | Strain Insulator Fittings (C&T) | 12 | 82 | Each | 983 |
| 15 | | Concreting of Pole, Stay sets & Base concreting | LS | LS | LS | 24439 |
| 16 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts etc | LS | LS | LS | 3516 |
| Total Cost of Material | | | | | | 281233 |
| 3% storage & handling charges on items (1) to (12) | | | | 253278 | | 7598 |
| 3% Contingencies on Materials | | | | | | 8437 |
| Labour | | | | | | 70308 |
| Transport | | | | | | 14062 |
| GST @ 18% on Labour & Transport | | | | | | 15187 |
| 1% Cess | | | | | | 3656 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 30936 |
| Total | | | | | | 431417 |
| or say | | | | | | 4,31,420 |
| Lakhs | | | | | | 4.314 |

**9. Costdata per Km of 11 KV Line (Single Circuit) with 55 Sq.mm AAA Conductor over 9.1 Mts.PSCC Poles at 50 Mts. Span,
75 Kg/Sq.Mt wind pressure, working load 280 Kgs.**

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00004 | 9.1M PSCC Pole | 22 | 3275 | Each | 72039 |
| 2 | PLS00002 | 8.0M PSCC Poles for Struts | 4 | 1992 | Each | 7967 |
| 3 | FBR10002 | 11KV 1.53M V-Cross Arm (Channel) without clamps | 20 | 477 | Each | 9540 |
| 4 | FBR10007 | 11KV Top Clamp with cleat | 20 | 173 | Each | 3469 |
| 5 | FBR10004 | 11KV Tapping Channel Cross Arms | 3 | 448 | Each | 1345 |
| 6 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 1 | 5672 | Set | 5672 |
| 7 | FBR00002 | MS Back Clamps for 9.1M PSCC poles | 23 | 87 | Each | 2001 |
| 8 | FBR10010 | MS Stay sets Complete with base plate | 4 | 376 | Each | 1504 |
| 9 | FBR00004 | MS Stay clamp for Strut poles | 8 | 59 | Set | 471 |
| 10 | CDR00003 | 55 Sq.mm AAA Conductor | 3.06 | 29943 | K.M. | 91626 |
| 11 | INS10001 | 11KV Pin - Insulator | 60 | 63 | Each | 3761 |
| 12 | HWR00001 | 11KV GI Pin | 60 | 61 | Each | 3689 |
| 13 | INS10003 | Strain Insulators | 12 | 287 | Each | 3448 |
| 14 | HWR00002 | Strain Insulator Fittings (C&T) | 12 | 82 | Each | 983 |
| 15 | | Concreting of Pole, Stay sets & Base concreting | LS | LS | LS | 24439 |
| 16 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | LS | LS | LS | 3516 |
| Total Cost of Material | | | | | | 235470 |
| 3% storage & handling charges on items (1) to (12) | | | | 207515 | | 6225 |
| 3% Contingencies on Materials | | | | | | 7064 |
| Labour | | | | | | 58868 |
| Transport | | | | | | 11774 |
| GST @ 18% on Labour & Transport | | | | | | 12715 |
| 1% Cess | | | | | | 3061 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 25902 |
| Total | | | | | | 361079 |
| or say | | | | | | 3,61,080 |
| Lakhs | | | | | | 3.611 |

10. Cost data per Km of 11 KV Line (Double Circuit) with 100 Sq.mm AAA Conductor over 11.0 Mts.PSCC Poles at 50 Mts. Span, 100 Kg/Sq.Mt wind pressure, working load 350 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|---|------|-------------|----------|-----------------|
| 1 | PLS00013 | 11.0 mts PSCC Pole | 22 | 6879 | Each | 151333 |
| 2 | PLS00004 | 9.1mts PSCC Poles for strut | 8 | 3275 | Each | 26196 |
| 3 | FBR10002 | 11KV V cross arms without clamps | 57 | 477 | Each | 27189 |
| 4 | FBR10004 | 11KV Tapping Channel "X" Arms | 12 | 448 | Each | 5381 |
| 5 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 3 | 5672 | Set | 17016 |
| 6 | FBR00042 | MS Back Clamps for 11.0M PSCC poles | 69 | 198 | Each | 13648 |
| 7 | FBR10010 | MS Stay sets Complete with base plate | 4 | 376 | Each | 1504 |
| 8 | CDR00004 | 100 Sq.mm AAA Conductor | 6.12 | 44898 | K.M. | 274777 |
| 9 | INS10001 | 11KV Pin - Insulator | 96 | 63 | Each | 6017 |
| 10 | HWR00001 | 11KV GI Pin | 96 | 61 | Each | 5902 |
| 11 | INS10003 | Strain Insulators | 24 | 287 | Each | 6896 |
| 12 | HWR00002 | Strain Insulator Fittings (C&T) | 24 | 82 | Each | 1966 |
| 13 | FBR00004 | MS Stay Clamps for Strut poles | 16 | 272 | Each | 4347 |
| 14 | | Concreting of Pole, Stay sets & Base concreting | LS | | LS | 44098 |
| 15 | | Misc. Items like coil earthing, pipe earthing, danger-boards, | LS | | LS | 3516 |
| Total Cost of Material | | | | | | 589786 |
| 3% storage & handling charges on items (1) to (11) | | | | 542172 | | 16265 |
| 3% Contingencies on Materials | | | | | | 17694 |
| Labour | | | | | | 147446 |
| Transport | | | | | | 29489 |
| GST @ 18% on Labour & Transport | | | | | | 31848 |
| 1% Cess | | | | | | 7667 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 64876 |
| Total | | | | | | 905072 |
| or say | | | | | | 9,05,070 |
| Lakhs | | | | | | 9.051 |

11. Cost data per Km of 11 KV Line (Single Circuit) with 55 Sq.mm AAA Conductor over 8.0 Mts. PSCC Poles 300kgs at 50 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 300 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00003 | 8.0M PSCC Pole(300Kgs) | 22 | 2360 | Each | 51920 |
| 2 | PLS00002 | 8.0 M PSCC Poles for Struts(200Kgs) | 4 | 1992 | Each | 7967 |
| 3 | FBR10002 | 11KV 1.53M V-Cross Arm (Channel) without clamps | 20 | 477 | Each | 9540 |
| 4 | FBR10007 | 11KV Top Clamp with cleat | 20 | 173 | Each | 3469 |
| 5 | FBR10004 | 11KV Tapping Channel Cross Arms | 3 | 448 | Each | 1345 |
| 6 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 1 | 5672 | Set | 5672 |
| 7 | FBR00001 | MS Back Clamps for 8.0M PSCC poles | 23 | 44 | Each | 1012 |
| 8 | FBR10010 | MS Stay sets Complete with base plate | 4 | 376 | Each | 1504 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 8 | 76 | Set | 604 |
| 10 | CDR00003 | 55 Sq.mm AAA Conductor | 3.06 | 29943 | K.M. | 91626 |
| 11 | INS10001 | 11KV Pin - Insulator | 60 | 63 | Each | 3761 |
| 12 | HWR00001 | 11KV GI Pin | 60 | 61 | Each | 3689 |
| 13 | INS10003 | Strain Insulators | 12 | 287 | Each | 3448 |
| 14 | HWR00002 | Strain Insulator Fittings (C&T) | 12 | 82 | Each | 983 |
| 15 | | Concreting of Pole, Stay sets & Base concreting | LS | LS | LS | 19606 |
| 16 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | LS | LS | LS | 3516 |
| Total Cost of Material | | | | | | 209662 |
| 3% storage & handling charges on items (1) to (12) | | | | 186540 | | 5596 |
| 3% Contingencies on Materials | | | | | | 6290 |
| Labour | | | | | | 52416 |
| Transport | | | | | | 10483 |
| GST @ 18% on Labour & Transport | | | | | | 11322 |
| 1% Cess | | | | | | 2726 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 23063 |
| Total | | | | | | 321557 |
| or say | | | | | | 3,21,560 |
| Lakhs | | | | | | 3.216 |

12.Costdata per Km of 11 KV Line (Single Circuit) with 55 Sq.mm AAA Conductor over 8.0 Mts.PSCC Poles 200kgs at 50 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 200 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8.0M PSCC Pole(200Kgs) | 22 | 1992 | Each | 43817 |
| 2 | PLS00002 | 8.0 M PSCC Poles for Struts(200Kgs) | 4 | 1992 | Each | 7967 |
| 3 | FBR10002 | 11KV 1.53M V-Cross Arm (Channel) without clamps | 20 | 477 | Each | 9540 |
| 4 | FBR10007 | 11KV Top Clamp with cleat | 20 | 173 | Each | 3469 |
| 5 | FBR10004 | 11KV Tapping Channel Cross Arms | 3 | 448 | Each | 1345 |
| 6 | FBR00025 | Bracing Set with double cross arm along with Fish plates | 1 | 5672 | Set | 5672 |
| 7 | FBR00001 | MS Back Clamps for 8.0M PSCC poles | 23 | 44 | Each | 1012 |
| 8 | FBR10010 | MS Stay sets Complete with base plate | 4 | 376 | Each | 1504 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 8 | 76 | Set | 604 |
| 10 | CDR00003 | 55 Sq.mm AAA Conductor | 3.06 | 29943 | K.M. | 91626 |
| 11 | INS10001 | 11KV Pin - Insulator | 60 | 63 | Each | 3761 |
| 12 | HWR00001 | 11KV GI Pin | 60 | 61 | Each | 3689 |
| 13 | INS10003 | Strain Insulators | 12 | 287 | Each | 3448 |
| 14 | HWR00002 | Strain Insulator Fittings (C&T) | 12 | 82 | Each | 983 |
| 15 | | Concreting of Pole, Stay sets & Base concreting | LS | LS | LS | 19606 |
| 16 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | LS | LS | LS | 3516 |
| Total Cost of Material | | | | | | 201559 |
| 3% storage & handling charges on items (1) to (12) | | | | 178437 | | 5353 |
| 3% Contingencies on Materials | | | | | | 6047 |
| Labour | | | | | | 50390 |
| Transport | | | | | | 10078 |
| GST @ 18% on Labour & Transport | | | | | | 10884 |
| 1% Cess | | | | | | 2620 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 22172 |
| Total | | | | | | 309103 |
| or say | | | | | | 3,09,100 |
| Lakhs | | | | | | 3.091 |

**13.Costdata per Km of 6.3 KV S-ph Line with 55 Sq.mm AAA Conductor over 9.1 Mts.PSCC Poles at 60Mts. Span,
75 Kg/Sq.Mt wind pressure, working load 280 Kgs.**

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00004 | 9.1M PSCC Pole | 18 | 3275 | Each | 58941 |
| 2 | PLS00002 | 8.0 M PSCC Poles for Struts(200Kgs) | 4 | 1992 | Each | 7967 |
| 3 | FBR10007 | Top Clamp with cleat | 16 | 173 | Each | 2775 |
| 4 | FBR00002 | MS Back Clamps for 9.1M PSCC poles | 16 | 87 | Each | 1392 |
| 5 | FBR10010 | MS Stay sets Complete with base plate | 6 | 376 | Each | 2256 |
| 6 | FBR00003 | MS Stay clamp for Strut poles | 8 | 76 | Set | 604 |
| 7 | CDR00003 | 55 Sq.mm AAA Conductor | 1.04 | 29943 | K.M. | 31141 |
| 8 | INS10001 | 11KV Pin - Insulator | 16 | 63 | Each | 1003 |
| 9 | HWR00001 | 11KV GI Pin | 16 | 61 | Each | 984 |
| 10 | INS10003 | Strain Insulators | 4 | 287 | Each | 1149 |
| 11 | HWR00002 | Strain Insulator Fittings (C&T) | 4 | 82 | Each | 328 |
| 12 | | Concreting of Pole, Stay sets & Base concreting | | | L.S. | 24448 |
| 13 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | | | L.S. | 2257 |
| Total Cost of Material | | | | | | 135245 |
| 3% storage & handling charges on items (1) to (9) | | | | 108540 | | 3256 |
| 3% Contingencies on Materials | | | | | | 4057 |
| Labour | | | | | | 33811 |
| Transport | | | | | | 6762 |
| GST @ 18% on Labour & Transport | | | | | | 7303 |
| 1% Cess | | | | | | 1758 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 14877 |
| Total | | | | | | 207070 |
| or say | | | | | | 2,07,070 |
| Lakhs | | | | | | 2.071 |

14. Cost data per Km of 6.3 KV S-ph Line with 55 Sq.mm AAA Conductor over 8.0 Mts. PSCC Poles 300Kgs at 60 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 300 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00003 | 8.0 M PSCC Pole 300Kgs. | 18 | 2360 | Each | 42480 |
| 2 | PLS00002 | 8.0 M PSCC Poles for Struts(200Kgs) | 4 | 1992 | Each | 7967 |
| 3 | FBR10007 | Top Clamp with cleat | 16 | 173 | Each | 2775 |
| 4 | FBR00001 | MS Back Clamps for 8.0M PSCC poles | 16 | 44 | Each | 704 |
| 5 | FBR10010 | MS Stay sets Complete with base plate | 6 | 539 | Each | 3237 |
| 6 | FBR00003 | MS Stay clamp for Strut poles | 8 | 76 | Set | 604 |
| 7 | CDR00003 | 55 Sq.mm AAA Conductor | 1.04 | 29943 | K.M. | 31141 |
| 8 | INS10001 | 11KV Pin - Insulator | 11 | 63 | Each | 689 |
| 9 | HWR00001 | 11KV GI Pin | 11 | 61 | Each | 676 |
| 10 | INS10003 | Strain Insulators | 4 | 287 | Each | 1149 |
| 11 | HWR00002 | Strain Insulator Fittings (C&T) | 4 | 82 | Each | 328 |
| 12 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 20494 |
| 13 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 114501 |
| 3% storage & handling charges on items (1) to (9) | | | | 91750 | | 2753 |
| 3% Contingencies on Materials | | | | | | 3435 |
| Labour | | | | | | 28625 |
| Transport | | | | | | 5725 |
| GST @ 18% on Labour & Transport | | | | | | 6183 |
| 1% Cess | | | | | | 1489 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 12595 |
| Total | | | | | | 175306 |
| or say | | | | | | 1,75,310 |
| Lakhs | | | | | | 1.753 |

**15.Costdata per Km of 6.3 KV S-ph Line with 55 Sq.mm AAA Conductor over 8.0 Mts.PSCC Poles 200Kgs at 60 Mts.
Span, 75 Kg/Sq.Mt wind pressure, working load 200 Kgs.**

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8.0 M PSCC Pole 200Kgs | 18 | 1992 | Each | 35850 |
| 2 | PLS00002 | 8.0 M PSCC Poles for Struts(200Kgs) | 4 | 1992 | Each | 7967 |
| 3 | FBR10007 | Top Clamp with cleat | 16 | 173 | Each | 2775 |
| 4 | FBR00001 | MS Back Clamps for 8.0M PSCC poles | 16 | 44 | Each | 704 |
| 5 | FBR10010 | MS Stay sets Complete with base plate | 6 | 539 | Each | 3237 |
| 6 | FBR00003 | MS Stay clamp for Strut poles | 8 | 76 | Set | 604 |
| 7 | CDR00003 | 55 Sq.mm AAA Conductor | 1.04 | 29943 | K.M. | 31141 |
| 8 | INS10001 | 11KV Pin - Insulator | 11 | 63 | Each | 689 |
| | HWR00001 | 11KV GI Pin | 11 | 61 | Each | 676 |
| 9 | INS10003 | Strain Insulators | 4 | 287 | Each | 1149 |
| | HWR00002 | Strain Insulator Fittings (C&T) | 4 | 82 | Each | 328 |
| 10 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 20494 |
| 11 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 107871 |
| 3% storage & handling charges on items (1) to (9) | | | | 85120 | | 2554 |
| 3% Contingencies on Materials | | | | | | 3236 |
| Labour | | | | | | 26968 |
| Transport | | | | | | 5394 |
| GST @ 18% on Labour & Transport | | | | | | 5825 |
| 1% Cess | | | | | | 1402 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 11866 |
| Total | | | | | | 165115 |
| or say | | | | | | 1,65,120 |
| Lakhs | | | | | | 1.651 |

16. Cost data per Km of 6.3 KV S-ph Line with 34 Sq.mm AAA Conductor over 8.0 Mts. PSCC Poles 140Kgs. at 60 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8.0M PSCC Pole 140Kgs | 18 | 1873 | Each | 33714 |
| 2 | PLS00002 | 8.0M PSCC Pole 140Kgs | 4 | 1873 | Each | 7492 |
| 3 | FBR10007 | Top Clamp with cleat | 16 | 173 | Each | 2775 |
| 4 | FBR00001 | MS Back Clamps for 8.0M PSCC poles | 16 | 44 | Each | 704 |
| 5 | FBR10010 | MS Stay sets Complete with base plate | 6 | 539 | Each | 3237 |
| 6 | FBR00003 | MS Stay clamp for Strut poles | 8 | 76 | Set | 604 |
| 7 | CDR00002 | 34 Sq.mm AAA Conductor | 1.04 | 19387 | K.M. | 20163 |
| 8 | INS10001 | 11KV Pin - Insulator | 11 | 63 | Each | 689 |
| 9 | HWR00001 | 11KV GI Pin | 11 | 61 | Each | 676 |
| 10 | INS10003 | Strain Insulators | 4 | 287 | Each | 1149 |
| 11 | HWR00002 | Strain Insulator Fittings (C&T) | 4 | 82 | Each | 328 |
| 12 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 20494 |
| 13 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 94282 |
| 3% storage & handling charges on items (1) to (9) | | | | 71531 | | 2146 |
| 3% Contingencies on Materials | | | | | | 2828 |
| Labour | | | | | | 23570 |
| Transport | | | | | | 4714 |
| GST @ 18% on Labour & Transport | | | | | | 5091 |
| 1% Cess | | | | | | 1226 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 10371 |
| Total | | | | | | 144228 |
| or say | | | | | | 1,44,230 |
| Lakhs | | | | | | 1.442 |

17. Cost data per Km of LT 3-Ph 5 Wire Line (Horizontal formation) with 4 x 55 Sq.mm + 1 x 34 Sq.mm AAAC over 8 Mts. PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 300 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00003 | 8 M PSCC Pole 300Kgs | 25 | 2360 | Each | 59000 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 4.08 | 29943 | K.M. | 122167 |
| 7 | CDR00002 | 34 Sq.mm AAA Conductor | 1.02 | 19387 | K.M. | 19775 |
| 8 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 9 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 10 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 11 | INS00001 | L.T. pin insulator with pin | 52 | 20.80 | Each | 1082 |
| 12 | HWR00015 | L.T. GI pin | 52 | 61.48 | Each | 3197 |
| 13 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 14 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 15 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 247495 |
| 3% storage & handling charges on items (1) to (11) | | | | 225662 | | 6770 |
| 3% Contingencies on Materials | | | | | | 7425 |
| Labour | | | | | | 61874 |
| Transport | | | | | | 12375 |
| GST @ 18% on Labour & Transport | | | | | | 13365 |
| 1% Cess | | | | | | 3217 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 27224 |
| Total | | | | | | 379746 |
| or say | | | | | | 3,79,750 |
| Lakhs | | | | | | 3.798 |

18.Costdata per Km of LT 3-Ph 5 Wire Line(Horizontal formation) with 4 x 55 Sq.mm + 1 x 34 Sq.mm AAAC over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 200 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 200Kgs | 25 | 1992 | Each | 49792 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 4.08 | 29943 | K.M. | 122167 |
| 7 | CDR00002 | 34 Sq.mm AAA Conductor | 1.02 | 19387 | K.M. | 19775 |
| 8 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 9 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 10 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 11 | INS00001 | L.T.pin insulator with pin | 52 | 21 | Each | 1082 |
| 12 | HWR00015 | L.T. GI pin | 52 | 61 | Each | 3197 |
| 13 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 14 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 15 | | Misc. Items like coil earthing, pipe earthing, danger- | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 238287 |
| 3% storage & handling charges on items (1) to (11) | | | | 216454 | | 6494 |
| 3% Contingencies on Materials | | | | | | 7149 |
| Labour | | | | | | 59572 |
| Transport | | | | | | 11914 |
| GST @ 18% on Labour & Transport | | | | | | 12868 |
| 1% Cess | | | | | | 3098 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 26212 |
| Total | | | | | | 365593 |
| or say | | | | | | 3,65,590 |
| Lakhs | | | | | | 3.656 |

19.Costdata per Km of LT 3-Ph 5 Wire Line(Horizontal formation) with 4 x 55 Sq.mm + 1 x 34 Sq.mm AAAC over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 25 | 1873 | Each | 46825 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 4.08 | 29943 | K.M. | 122167 |
| 7 | CDR00002 | 34 Sq.mm AAA Conductor | 1.02 | 19387 | K.M. | 19775 |
| 8 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 9 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 10 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 11 | INS00001 | L.T.pin insulator with pin | 52 | 21 | Each | 1082 |
| 12 | HWR00015 | L.T. GI pin | 52 | 61 | Each | 3197 |
| 13 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 14 | | Concreting of Pole,Stay sets & Base concreting | | | L.S. | 18619 |
| 15 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | | | L.S. | 2257 |
| Total Cost of Material | | | | | | 234363 |
| 3% storage & handling charges on items (1) to (11) | | | | 213487 | | 6405 |
| 3% Contingencies on Materials | | | | | | 7031 |
| Labour | | | | | | 58591 |
| Transport | | | | | | 11718 |
| GST @ 18% on Labour & Transport | | | | | | 12656 |
| 1% Cess | | | | | | 3047 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 25780 |
| Total | | | | | | 359591 |
| or say | | | | | | 3,59,590 |
| Lakhs | | | | | | 3.596 |

20. Cost data per Km of LT 3-Ph 5 Wire Line (Horizontal formation) with 3 x 55 Sq.mm + 2 x 34 Sq.mm AAAC over 8 Mts. PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 300 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00003 | 8 M PSCC Pole 300Kgs | 25 | 2360 | Each | 59000 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 3.06 | 29943 | K.M. | 91626 |
| 7 | CDR00002 | 34 Sq.mm AAA Conductor | 2.04 | 19387 | K.M. | 39550 |
| 8 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 9 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 10 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 11 | INS00001 | L.T. pin insulator with pin | 52 | 21 | Each | 1082 |
| 12 | HWR00015 | L.T. GI pin | 52 | 61 | Each | 3197 |
| 13 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 14 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 15 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 236729 |
| 3% storage & handling charges on items (1) to (11) | | | | 214896 | | 6447 |
| 3% Contingencies on Materials | | | | | | 7102 |
| Labour | | | | | | 59182 |
| Transport | | | | | | 11836 |
| GST @ 18% on Labour & Transport | | | | | | 12783 |
| 1% Cess | | | | | | 3077 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 26040 |
| Total | | | | | | 363198 |
| or say | | | | | | 3,63,200 |
| Lakhs | | | | | | 3.632 |

21. Cost data per Km of LT 3-Ph 5 Wire Line (Horizontal formation) with 3 x 55 Sq.mm + 2 x 34 Sq.mm AAAC over 8 Mts. PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 200 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 200Kgs | 25 | 1992 | Each | 49792 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 3.06 | 29943 | K.M. | 91626 |
| 7 | CDR00002 | 34 Sq.mm AAA Conductor | 2.04 | 19387 | K.M. | 39550 |
| 8 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 9 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 10 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 11 | INS00001 | L.T. pin insulator with pin | 52 | 21 | Each | 1082 |
| 12 | HWR00015 | L.T. GI pin | 52 | 61 | Each | 3197 |
| 13 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 14 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 15 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 227521 |
| 3% storage & handling charges on items (1) to (11) | | | | 205688 | | 6171 |
| 3% Contingencies on Materials | | | | | | 6826 |
| Labour | | | | | | 56880 |
| Transport | | | | | | 11376 |
| GST @ 18% on Labour & Transport | | | | | | 12286 |
| 1% Cess | | | | | | 2958 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 25027 |
| Total | | | | | | 349046 |
| or say | | | | | | 3,49,050 |
| Lakhs | | | | | | 3.491 |

22.Costdata per Km of LT 3-Ph 5 Wire Line(Horizontal formation) with 3 x 55 Sq.mm + 2 x 34 Sq.mm AAAC over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 25 | 1873 | Each | 46825 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 3.06 | 29943 | K.M. | 91626 |
| 7 | CDR00002 | 34 Sq.mm AAA Conductor | 2.04 | 19387 | K.M. | 39550 |
| 8 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 9 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 10 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 11 | INS00001 | L.T.pin insulator with pin | 52 | 21 | Each | 1082 |
| 12 | HWR00015 | L.T. GI pin | 52 | 61 | Each | 3197 |
| 13 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 14 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 15 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 223597 |
| 3% storage & handling charges on items (1) to (11) | | | | 202721 | | 6082 |
| 3% Contingencies on Materials | | | | | | 6708 |
| Labour | | | | | | 55899 |
| Transport | | | | | | 11180 |
| GST @ 18% on Labour & Transport | | | | | | 12074 |
| 1% Cess | | | | | | 2907 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 24596 |
| Total | | | | | | 343043 |
| or say | | | | | | 3,43,040 |
| Lakhs | | | | | | 3.430 |

23. Costdata per Km of LT 3-Ph 5 Wire Line(Horizontal formation) with 5 x 55 Sq.mm AAAC over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 300 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00003 | 8 M PSCC Pole 300Kgs | 25 | 2360 | Each | 59000 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 5.1 | 29943 | K.M. | 152709 |
| 7 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T.pin insulator with pin | 52 | 21 | Each | 1082 |
| 11 | HWR00015 | L.T. GI pin | 52 | 61 | Each | 3197 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 258262 |
| 3% storage & handling charges on items (1) to (10) | | | | 236429 | | 7093 |
| 3% Contingencies on Materials | | | | | | 7748 |
| Labour | | | | | | 64566 |
| Transport | | | | | | 12913 |
| GST @ 18% on Labour & Transport | | | | | | 13946 |
| 1% Cess | | | | | | 3357 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 28409 |
| Total | | | | | | 396294 |
| or say | | | | | | 3,96,290 |
| Lakhs | | | | | | 3.963 |

**24.Costdata per Km of LT 3-Ph 5 Wire Line(Horizontal formation) with 5 x 55 Sq.mm over 8 Mts.PSCC Poles at 40 Mts.
Span, 75 Kg/Sq.Mt wind pressure, working load 200 Kgs.**

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 200Kgs | 25 | 1992 | Each | 49792 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 5.1 | 29943 | K.M. | 152709 |
| 7 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T.pin insulator with pin | 52 | 21 | Each | 1082 |
| 11 | HWR00015 | L.T. GI pin | 52 | 61 | Each | 3197 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 249054 |
| 3% storage & handling charges on items (1) to (10) | | | | 227221 | | 6817 |
| 3% Contingencies on Materials | | | | | | 7472 |
| Labour | | | | | | 62264 |
| Transport | | | | | | 12453 |
| GST @ 18% on Labour & Transport | | | | | | 13449 |
| 1% Cess | | | | | | 3238 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 27396 |
| Total | | | | | | 382142 |
| or say | | | | | | 3,82,140 |
| Lakhs | | | | | | 3.821 |

25. Cost data per Km of LT 3-Ph 5 Wire Line(Horizontal formation) with 5 x 34 Sq.mm over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 300 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00003 | 8 M PSCC Pole 300Kgs | 25 | 2360 | Each | 59000 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00002 | 34 Sq.mm AAA Conductor | 5.1 | 19387 | K.M. | 98875 |
| 7 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T.pin insulator with pin | 52 | 21 | Each | 1082 |
| 11 | HWR00015 | L.T. GI pin | 52 | 61 | Each | 3197 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 204428 |
| 3% storage & handling charges on items (1) to (10) | | | | 182595 | | 5478 |
| 3% Contingencies on Materials | | | | | | 6133 |
| Labour | | | | | | 51107 |
| Transport | | | | | | 10221 |
| Service Tax including Swacha Bhart&Krushi Kalyan@ 15% on Labour & Transport | | | | | | 9199 |
| 1% Cess | | | | | | 2658 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 22487 |
| Total | | | | | | 311712 |
| or say | | | | | | 3,11,710 |
| Lakhs | | | | | | 3.117 |

26.Costdata per Km of LT 3-Ph 5 Wire Line(Horizontal formation) with 5 x 34 Sq.mm AAAC over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 200 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 200Kgs | 25 | 1992 | Each | 49792 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00002 | 34 Sq.mm AAA Conductor | 5.1 | 19387 | K.M. | 98875 |
| 7 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T.pin insulator with pin | 52 | 21 | Each | 1082 |
| 11 | HWR00015 | L.T. GI pin | 52 | 61 | Each | 3197 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 195220 |
| 3% storage & handling charges on items (1) to (10) | | | | 173387 | | 5202 |
| 3% Contingencies on Materials | | | | | | 5857 |
| Labour | | | | | | 48805 |
| Transport | | | | | | 9761 |
| GST @ 18% on Labour & Transport | | | | | | 10542 |
| 1% Cess | | | | | | 2538 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 21474 |
| Total | | | | | | 299399 |
| or say | | | | | | 2,99,400 |
| Lakhs | | | | | | 2.994 |

27. Costdata per Km of LT 3-Ph 5 Wire Line(Horizontal formation) with 5 x 34 Sq.mm AAAC over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 25 | 1873 | Each | 46825 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00008 | L.T. 3 Phase 5W cross arms | 25 | 415 | Each | 10369 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00002 | 34 Sq.mm AAA Conductor | 5.1 | 19387 | K.M. | 98875 |
| 7 | INS00002 | Shakle Insulator | 48 | 17 | Each | 830 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 48 | 34 | Each | 1635 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T.pin insulator with pin | 52 | 21 | Each | 1082 |
| 11 | HWR00015 | L.T. GI pin | 52 | 61 | Each | 3197 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 191296 |
| 3% storage & handling charges on items (1) to (10) | | | | 170420 | | 5113 |
| 3% Contingencies on Materials | | | | | | 5739 |
| Labour | | | | | | 47824 |
| Transport | | | | | | 9565 |
| GST @ 18% on Labour & Transport | | | | | | 10330 |
| 1% Cess | | | | | | 2487 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 21043 |
| Total | | | | | | 293397 |
| or say | | | | | | 2,93,400 |
| Lakhs | | | | | | 2.934 |

28.Costdata per Km of LT 3-Ph 4 Wire Line(Horizontal formation) with 4 x 55 Sq.mm over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 300 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00003 | 8 M PSCC Pole 300Kgs | 25 | 2360 | Each | 59000 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00007 | L.T. 3 Phase 4W cross arms | 25 | 372 | Each | 9293 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 4.08 | 29943 | K.M. | 122167 |
| 7 | INS00002 | Shakle Insulator | 36 | 17 | Each | 622 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 36 | 34 | Each | 1226 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T.pin insulator with pin | 39 | 21 | Each | 811 |
| 11 | HWR00015 | L.T. GI pin | 39 | 61 | Each | 2398 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 224957 |
| 3% storage & handling charges on items (1) to (10) | | | | 203124 | | 6094 |
| 3% Contingencies on Materials | | | | | | 6749 |
| Labour | | | | | | 56239 |
| Transport | | | | | | 11248 |
| GST @ 18% on Labour & Transport | | | | | | 12148 |
| 1% Cess | | | | | | 2924 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 24745 |
| Total | | | | | | 345105 |
| or say | | | | | | 3,45,110 |
| Lakhs | | | | | | 3.451 |

29.Costdata per Km of LT 3-Ph 4 Wire Line(Horizontal formation) with 4 x 55 Sq.mm AAAC over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 200 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 200Kgs | 25 | 1992 | Each | 49792 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00007 | L.T. 3 Phase 4W cross arms | 25 | 372 | Each | 9293 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 4.08 | 29943 | K.M. | 122167 |
| 7 | INS00002 | Shakle Insulator | 36 | 17 | Each | 622 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 36 | 34 | Each | 1226 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T.pin insulator with pin | 39 | 21 | Each | 811 |
| 11 | HWR00015 | L.T. GI pin | 39 | 61 | Each | 2398 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 215749 |
| 3% storage & handling charges on items (1) to (10) | | | | 193916 | | 5817 |
| 3% Contingencies on Materials | | | | | | 6472 |
| Labour | | | | | | 53937 |
| Transport | | | | | | 10787 |
| GST @ 18% on Labour & Transport | | | | | | 11650 |
| 1% Cess | | | | | | 2805 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 23732 |
| Total | | | | | | 330951 |
| or say | | | | | | 3,30,950 |
| Lakhs | | | | | | 3.310 |

30. Cost data per Km of LT 3-Ph 4 Wire Line (Horizontal formation) with 4 x 55 Sq.mm AAAC over 8 Mts. PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 25 | 1873 | Each | 46825 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00007 | L.T. 3 Phase 4W cross arms | 25 | 372 | Each | 9293 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 4.08 | 29943 | K.M. | 122167 |
| 7 | INS00002 | Shakle Insulator | 36 | 17 | Each | 622 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 36 | 34 | Each | 1226 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T. pin insulator with pin | 39 | 21 | Each | 811 |
| 11 | HWR00015 | L.T. GI pin | 39 | 61 | Each | 2398 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 211825 |
| 3% storage & handling charges on items (1) to (10) | | | | 190949 | | 5728 |
| 3% Contingencies on Materials | | | | | | 6355 |
| Labour | | | | | | 52956 |
| Transport | | | | | | 10591 |
| GST @ 18% on Labour & Transport | | | | | | 11439 |
| 1% Cess | | | | | | 2754 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 23301 |
| Total | | | | | | 324949 |
| or say | | | | | | 3,24,950 |
| Lakhs | | | | | | 3.250 |

31. Cost data per Km of LT 3-Ph 4 Wire Line (Horizontal formation) with 4 x 34 Sq.mm over 8 Mts. PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 300 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00003 | 8 M PSCC Pole 300Kgs | 25 | 2360 | Each | 59000 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00007 | L.T. 3 Phase 4W cross arms | 25 | 372 | Each | 9293 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00002 | 34 Sq.mm AAA Conductor | 4.08 | 19387 | K.M. | 79100 |
| 7 | INS00002 | Shakle Insulator | 36 | 17 | Each | 622 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 36 | 34 | Each | 1226 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T. pin insulator with pin | 39 | 21 | Each | 811 |
| 11 | HWR00015 | L.T. GI pin | 39 | 61 | Each | 2398 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 181890 |
| 3% storage & handling charges on items (1) to (10) | | | | 160057 | | 4802 |
| 3% Contingencies on Materials | | | | | | 5457 |
| Labour | | | | | | 45473 |
| Transport | | | | | | 9095 |
| GST @ 18% on Labour & Transport | | | | | | 9822 |
| 1% Cess | | | | | | 2365 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 20008 |
| Total | | | | | | 278911 |
| or say | | | | | | 2,78,910 |
| Lakhs | | | | | | 2.789 |

32. Cost data per Km of LT 3-Ph 4 Wire Line (Horizontal formation) with 4 x 34 Sq.mm AAAC over 8 Mts. PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 200 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 200Kgs | 25 | 1992 | Each | 49792 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00007 | L.T. 3 Phase 4W cross arms | 25 | 372 | Each | 9293 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00002 | 34 Sq.mm AAA Conductor | 4.08 | 19387 | K.M. | 79100 |
| 7 | INS00002 | Shakle Insulator | 36 | 17 | Each | 622 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 36 | 34 | Each | 1226 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T. pin insulator with pin | 39 | 21 | Each | 811 |
| 11 | HWR00015 | L.T. GI pin | 39 | 61 | Each | 2398 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 172682 |
| 3% storage & handling charges on items (1) to (10) | | | | 150849 | | 4525 |
| 3% Contingencies on Materials | | | | | | 5180 |
| Labour | | | | | | 43171 |
| Transport | | | | | | 8634 |
| GST @ 18% on Labour & Transport | | | | | | 9325 |
| 1% Cess | | | | | | 2245 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 18995 |
| Total | | | | | | 264757 |
| or say | | | | | | 2,64,760 |
| Lakhs | | | | | | 2.648 |

33.Costdata per Km of LT 3-Ph 4 Wire Line(Horizontal formation) with 4 x 34 Sq.mm AAAC over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 25 | 1873 | Each | 46825 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00007 | L.T. 3 Phase 4W cross arms | 25 | 372 | Each | 9293 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00002 | 34 Sq.mm AAA Conductor | 4.08 | 19387 | K.M. | 79100 |
| 7 | INS00002 | Shakle Insulator | 36 | 17 | Each | 622 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 36 | 34 | Each | 1226 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T.pin insulator with pin | 39 | 21 | Each | 811 |
| 11 | HWR00015 | L.T. GI pin | 39 | 61 | Each | 2398 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 168758 |
| 3% storage & handling charges on items (1) to (10) | | | | 147882 | | 4436 |
| 3% Contingencies on Materials | | | | | | 5063 |
| Labour | | | | | | 42190 |
| Transport | | | | | | 8438 |
| GST @ 18% on Labour & Transport | | | | | | 9113 |
| 1% Cess | | | | | | 2194 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 18563 |
| Total | | | | | | 258755 |
| or say | | | | | | 2,58,760 |
| Lakhs | | | | | | 2.588 |

34. Costdata per Km of LT 1-Ph 3 Wire Line(Horizontal formation) with 3 x 55 Sq.mm AAAC over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 25 | 1873 | Each | 46825 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00006 | L.T. 1 Phase 3W cross arms | 25 | 175 | Each | 4364 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 3.06 | 29943 | K.M. | 91626 |
| 7 | INS00002 | Shakle Insulator | 24 | 17 | Each | 415 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 24 | 34 | Each | 817 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T.pin insulator with pin | 26 | 21 | Each | 541 |
| 11 | HWR00015 | L.T. GI pin | 26 | 61 | Each | 1598 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 174669 |
| 3% storage & handling charges on items (1) to (10) | | | | 153793 | | 4614 |
| 3% Contingencies on Materials | | | | | | 5240 |
| Labour | | | | | | 43667 |
| Transport | | | | | | 8733 |
| GST @ 18% on Labour & Transport | | | | | | 9432 |
| 1% Cess | | | | | | 2271 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 19214 |
| Total | | | | | | 267841 |
| or say | | | | | | 2,67,840 |
| Lakhs | | | | | | 2.678 |

35. Cost data per Km of LT 1-Ph 3 Wire Line (Horizontal formation) with 3 x 34 Sq.mm AAAC over 8 Mts. PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 25 | 1873 | Each | 46825 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00006 | L.T. 1 Phase 3W cross arms | 25 | 175 | Each | 4364 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00002 | 34 Sq.mm AAA Conductor | 3.06 | 19387 | K.M. | 59325 |
| 7 | INS00002 | Shackle Insulator | 24 | 17 | Each | 415 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 24 | 34 | Each | 817 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T. pin insulator with pin | 26 | 21 | Each | 541 |
| 11 | HWR00015 | L.T. GI pin | 26 | 61 | Each | 1598 |
| 12 | BNT00030 | C.I. Knob | 25 | 12.99 | Each | 325 |
| 13 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 18619 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 142368 |
| 3% storage & handling charges on items (1) to (10) | | | | 121492 | | 3645 |
| 3% Contingencies on Materials | | | | | | 4271 |
| Labour | | | | | | 35592 |
| Transport | | | | | | 7118 |
| GST @ 18% on Labour & Transport | | | | | | 7688 |
| 1% Cess | | | | | | 1851 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 15661 |
| Total | | | | | | 218194 |
| or say | | | | | | 2,18,190 |
| Lakhs | | | | | | 2.182 |

36.Costdata per Km of LT 1-Ph 2 Wire Line(Horizontal formation) with 2 x 55 Sq.mm AAAC over 8 Mts.PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 20 | 1873 | Each | 37460 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00005 | L.T. 1 Phase 2W cross arms | 25 | 180 | Each | 4495 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00003 | 55 Sq.mm AAA Conductor | 2.04 | 29943 | K.M. | 61084 |
| 7 | INS00002 | Shakle Insulator | 8 | 17 | Each | 138 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 8 | 34 | Each | 272 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T.pin insulator with pin | 12 | 21 | Each | 250 |
| 11 | HWR00015 | L.T. GI pin | 12 | 61 | Each | 738 |
| 12 | BNT00030 | C.I. Knob | 20 | 12.99 | Each | 260 |
| 13 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 16417 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 130653 |
| 3% storage & handling charges on items (1) to (10) | | | | 111979 | | 3359 |
| 3% Contingencies on Materials | | | | | | 3920 |
| Labour | | | | | | 32663 |
| Transport | | | | | | 6533 |
| GST @ 18% on Labour & Transport | | | | | | 7055 |
| 1% Cess | | | | | | 1698 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 14372 |
| Total | | | | | | 200253 |
| or say | | | | | | 2,00,250 |
| Lakhs | | | | | | 2.003 |

37. Cost data per Km of LT 1-Ph 2 Wire Line (Horizontal formation) with 2 x 34 Sq.mm AAAC over 8 Mts. PSCC Poles at 40 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 20 | 1873 | Each | 37460 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | FBR00005 | L.T. 1 Phase 2W cross arms | 25 | 180 | Each | 4495 |
| 4 | FBR00001 | Back Clamp | 25 | 44 | Each | 1100 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Each | 2134 |
| 6 | CDR00002 | 34 Sq.mm AAA Conductor | 2.04 | 19387 | K.M. | 39550 |
| 7 | INS00002 | Shakle Insulator | 8 | 17 | Each | 138 |
| 8 | HWR00016 | LT Metal Parts for Shackles | 8 | 34 | Each | 272 |
| 9 | FBR00003 | MS Stay clamp for Strut poles | 4 | 76 | Set | 302 |
| 10 | INS00001 | L.T. pin insulator with pin | 12 | 21 | Each | 250 |
| 11 | HWR00015 | L.T. GI pin | 12 | 61 | Each | 738 |
| 12 | BNT00030 | C.I. Knob | 20 | 12.99 | Each | 260 |
| 13 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 16417 |
| 14 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 2257 |
| Total Cost of Material | | | | | | 109119 |
| 3% storage & handling charges on items (1) to (10) | | | | 90445 | | 2713 |
| 3% Contingencies on Materials | | | | | | 3274 |
| Labour | | | | | | 27280 |
| Transport | | | | | | 5456 |
| GST @ 18% on Labour & Transport | | | | | | 5892 |
| 1% Cess | | | | | | 1419 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 12003 |
| Total | | | | | | 167156 |
| or say | | | | | | 1,67,160 |
| Lakhs | | | | | | 1.672 |

38.Costdata per Km of LT line with 3 x 16 + 25 Sqmm AB Cable over 8 Mts.PSCC Poles at 50 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 200 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 200Kgs | 20 | 1992 | Each | 39833 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | HWR00019 | Suspension clamp assembly with eye hook | 14 | 175 | Each | 2447 |
| 4 | HWR00009 | Dead end clamp assembly with eye hook | 6 | 113 | Each | 677 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Set | 2134 |
| 6 | CBA00003 | L.T. A.B. Cable 3 x 16 + 25 Sqmm | 1.02 | 42504 | K.M. | 43354 |
| 7 | FBR00003 | Stay clamps | 4 | 76 | Set | 302 |
| 8 | 0 | Insulated connectors with covers | 68 | 82 | Each | 5570 |
| 9 | | Concreting of Pole,Stay sets & Base concreting | L.S. | | L.S. | 16417 |
| 10 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 117696 |
| 3% storage & handling charges on items (1) to (8) | | | | 98063 | | 2942 |
| 3% Contingencies on Materials | | | | | | 3531 |
| Labour | | | | | | 29424 |
| Transport | | | | | | 5885 |
| GST @ 18% on Labour & Transport | | | | | | 6356 |
| 1% Cess | | | | | | 1530 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 12947 |
| Total | | | | | | 180309 |
| or say | | | | | | 1,80,310 |
| Lakhs | | | | | | 1.803 |

39. Cost data per Km of LT line with 3 x 16 + 25 Sqmm AB Cable over 8 Mts. PSCC Poles at 50 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 20 | 1873 | Each | 37460 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | HWR00019 | Suspension clamp assembly with eye hook | 14 | 175 | Each | 2447 |
| 4 | HWR00009 | Dead end clamp assembly with eye hook | 6 | 113 | Each | 677 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Set | 2134 |
| 6 | CBA00003 | L.T. A.B. Cable 3 x 16 + 25 Sqmm | 1.02 | 42504 | K.M. | 43354 |
| 7 | FBR00003 | Stay clamps | 4 | 76 | Set | 302 |
| 8 | 0 | Insulated connectors with covers | 68 | 82 | Each | 5570 |
| 9 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 16417 |
| 10 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 115321 |
| 3% storage & handling charges on items (1) to (8) | | | | 95690 | | 2871 |
| 3% Contingencies on Materials | | | | | | 3460 |
| Labour | | | | | | 28830 |
| Transport | | | | | | 5766 |
| GST @ 18% on Labour & Transport | | | | | | 6227 |
| 1% Cess | | | | | | 1499 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 12685 |
| Total | | | | | | 176660 |
| or say | | | | | | 1,76,660 |
| Lakhs | | | | | | 1.767 |

40. Cost data per Km of LT line with 2 x 16 + 25 Sqmm AB Cable over 8 Mts. PSCC Poles at 50 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 200 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 200Kgs | 20 | 1992 | Each | 39833 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | HWR00019 | Suspension clamp assembly with eye hook | 14 | 175 | Each | 2447 |
| 4 | HWR00009 | Dead end clamp assembly with eye hook | 6 | 113 | Each | 677 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Set | 2134 |
| 6 | CBA00002 | L.T. A.B. Cable 2 x 16 + 25 Sqmm | 1.02 | 35953 | K.M. | 36672 |
| 7 | FBR00003 | Stay clamps | 4 | 76 | Set | 302 |
| 8 | 0 | Insulated connectors with covers | 68 | 82 | Each | 5570 |
| 9 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 16417 |
| 10 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 111012 |
| 3% storage & handling charges on items (1) to (8) | | | | 91381 | | 2741 |
| 3% Contingencies on Materials | | | | | | 3330 |
| Labour | | | | | | 27753 |
| Transport | | | | | | 5551 |
| GST @ 18% on Labour & Transport | | | | | | 5995 |
| 1% Cess | | | | | | 1443 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 12211 |
| Total | | | | | | 170036 |
| or say | | | | | | 1,70,040 |
| Lakhs | | | | | | 1.700 |

41. Cost data per Km of LT line with 2 x 16 + 25 Sqmm AB Cable over 8 Mts. PSCC Poles at 50 Mts. Span, 75 Kg/Sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|----------|--|------|-------------|----------|-----------------|
| 1 | PLS00002 | 8 M PSCC Pole 140Kgs | 20 | 1873 | Each | 37460 |
| 2 | PLS00002 | 8 M PSCC Pole 140Kgs (Struts) | 2 | 1873 | Each | 3746 |
| 3 | HWR00019 | Suspension clamp assembly with eye hook | 14 | 175 | Each | 2447 |
| 4 | HWR00009 | Dead end clamp assembly with eye hook | 6 | 113 | Each | 677 |
| 5 | FBR00010 | MS Stay sets Complete with base plate | 4 | 533 | Set | 2134 |
| 6 | CBA00002 | L.T. A.B. Cable 2 x 16 + 25 Sqmm | 1.02 | 35953 | K.M. | 36672 |
| 7 | FBR00003 | Stay clamps | 4 | 76 | Set | 302 |
| 8 | 0 | Insulated connectors with covers | 68 | 82 | Each | 5570 |
| 9 | | Concreting of Pole, Stay sets & Base concreting | L.S. | | L.S. | 16417 |
| 10 | | Misc. Items like coil earthing, pipe earthing, danger-boards, bolts & nuts, etc. | L.S. | | L.S. | 3214 |
| Total Cost of Material | | | | | | 108639 |
| 3% storage & handling charges on items (1) to (8) | | | | 89008 | | 2670 |
| 3% Contingencies on Materials | | | | | | 3259 |
| Labour | | | | | | 27160 |
| Transport | | | | | | 5432 |
| GST @ 18% on Labour & Transport | | | | | | 5867 |
| 1% Cess | | | | | | 1412 |
| 11% Estt. & Genl. Charges On Materials | | | | | | 11950 |
| Total | | | | | | 166389 |
| or say | | | | | | 1,66,390 |
| Lakhs | | | | | | 1.664 |

42.COST DATA FOR ERECTION OF 16 KVA BEE 5Star-11KV/433V CONVENTIONAL TRANSFORMER

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|----------|--|----------|------------------------|--------------------------|
| 1 | DTA30016 | 11 KV/433V 16KVA Conventional Transformer | Each | 77170 | 1,616 |
| 2 | | Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 25X4mm GI flat and 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes) | Each | 15900 | 5700 |
| 3 | ABS10016 | 11 KV 200 Amps AB Switch (Tilting) polymer type insulators | Each | 5727 | 956 |
| 4 | HGF10002 | Erection of 11 KV H.G. Fuse set | Each | 1776 | 583 |
| 5 | MCT30036 | LT Metering arrangements with CTs including cable(25sq.mm. Single Core XLPE) connections and cleat arrangement | Each | 10380 | 940 |
| 6 | OMT10049 | AMR Unit | Each | 5994 | |
| 7 | BXS00034 | Installation of A type distribuion box of 1-feeder with 500V,100A fuse units | Each | 5158 | 184 |
| 8 | LAS00001 | Installation of HT Lightening Arrestors (3No.s) | Each | 1037 | 605 |
| 9 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 1,24,791 | 10,584 |
| 3% storage & handling charges on items (1) to (7) | | | | 3514 | |
| 3% Contingencies on Materials | | | | 3744 | |
| Labour & Transport | | | | 10,584 | |
| GST @ 18% on Labour & Transport | | | | 1,905 | |
| 1% Cess | | | | 1354 | |
| 11% Estt. & Genl. Charges on Materials | | | | 13727 | |
| Total Cost in Rs. | | | | 1,59,620 | |
| or say : | | | | 1,59,620 | |
| Cost of the Estimate in Lakhs | | | | 1.60 | |

43.COST DATA FOR ERECTION OF 25 KVA BEE 5Star-11KV/433V CONVENTIONAL TRANSFORMER

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport |
|---|-----------------|--|-----------------|-------------------------------|-------------------------------|
| 1 | DTA30017 | 11 KV/433V 25KVA Conventional Transformer | Each | 71536 | 1,616 |
| 2 | | Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 25X4mm GI flat and 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes) | Each | 15900 | 5,700 |
| 3 | ABS10016 | 11 KV 200 Amps AB Switch (Tilting) polymer type insulators | Each | 5727 | 956 |
| 4 | HGF10002 | Erection of 11 KV H.G. Fuse set | Each | 1776 | 583 |
| 5 | MCT30036 | LT Metering arrangements with CTs including cable(50sq.mm. Single Core XLPE) connections and cleat arrangement | Each | 11183 | 940 |
| 6 | OMT10049 | AMR Unit | Each | 5994 | |
| 7 | BXS00034 | Installation of A type distribuion box of 1-feeder with 500V,100A fuse units | Each | 5158 | 184 |
| 8 | LAS00001 | Installation of HT Lightning Arrestors (3No.s) | Each | 1037 | 605 |
| 9 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 1,19,961 | 10,584 |
| 3% storage & handling charges on items (1) to (7) | | | | 3370 | |
| 3% Contingencies on Materials | | | | 3599 | |
| Labour & Transport | | | | 10,584 | |
| GST @ 18% on Labour & Transport | | | | 1,905 | |
| 1% Cess | | | | 1305 | |
| 11% Estt. & Genl. Charges on Materials | | | | 13196 | |
| Total Cost in Rs. | | | | 1,53,919 | |
| or say : | | | | 1,53,920 | |
| Cost of the Estimate in Lakhs | | | | 1.54 | |

44.COST DATA FOR ERECTION OF 40 KVA BEE 5Star-11KV/433V CONVENTIONAL TRANSFORMER

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport |
|---|-----------------|--|-----------------|-------------------------------|-------------------------------|
| 1 | DTA30015 | 11 KV/433V 40KVA Conventional Transformer | Each | 115320 | 1,616 |
| 2 | | Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 25X4mm GI flat and 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes) | Each | 15900 | 5,700 |
| 3 | ABS10016 | 11 KV 200 Amps AB Switch (Tilting) polymer type insulators | Each | 5727 | 956 |
| 4 | HGF10002 | Erection of 11 KV H.G. Fuse set | Each | 1776 | 583 |
| 5 | MCT30036 | LT Metering arrangements with CTs including cable(70sq.mm. Single Core XLPE) connections and cleat arrangement | Each | 12754 | 940 |
| 6 | OMT10049 | AMR Unit | Each | 5994 | |
| 7 | BXS00034 | Installation of A type distribuion box of 2-feeder with 500V,300A fuse units | Each | 13404 | 184 |
| 8 | LAS00001 | Installation of HT Lightening Arrestors (3No.s) | Each | 1037 | 605 |
| 9 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 1,73,561 | 10,584 |
| 3% storage & handling charges on items (1) to (7) | | | | 4978 | |
| 3% Contingencies on Materials | | | | 5207 | |
| Labour & Transport | | | | 10,584 | |
| GST @ 18% on Labour & Transport | | | | 1,905 | |
| 1% Cess | | | | 1841 | |
| 11% Estt. & Genl. Charges on Materials | | | | 19092 | |
| Total Cost in Rs. | | | | 2,17,168 | |
| or say : | | | | 2,17,170 | |
| Cost of the Estimate in Lakhs | | | | 2.17 | |

45.COST DATA FOR ERECTION OF 63 KVA BEE 5Star-11KV/433V CONVENTIONAL TRANSFORMER

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|----------|--|----------|------------------------|--------------------------|
| 1 | DTA30012 | 11 KV/433V 63KVA Conventional Transformer | Each | 124500 | 4,563 |
| 2 | | Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 25X4mm GI flat and 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes) | Each | 15900 | 5,700 |
| 3 | ABS10016 | 11 KV 200 Amps AB Switch (Tilting) polymer type insulators | Each | 5727 | 956 |
| 4 | HGF10002 | Erection of 11 KV H.G. Fuse set | Each | 1776 | 583 |
| 5 | MCT30036 | LT Metering arrangements with CTs including cable(95sq.mm. Single Core XLPE) connections and cleat arrangement | Each | 13153 | 940 |
| 6 | OMT10049 | AMR Unit | Each | 5994 | |
| 7 | BXS00034 | Installation of A type distribuion box of 2-feeder with 500V,300A fuse units | Each | 13404 | 184 |
| 8 | LAS00001 | Installation of HT Lightning Arrestors (3No.s) | Each | 1037 | 605 |
| 9 | | Construction of Plinth for Mounting of 3-Ph DTR | L.S. | 0 | 20,000 |
| 10 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 1,83,141 | 33,531 |
| 3% storage & handling charges on items (1) to (7) | | | | 5265 | |
| 3% Contingencies on Materials | | | | 5494 | |
| Labour & Transport | | | | 33,531 | |
| GST @ 18% on Labour & Transport | | | | 6,036 | |
| 1% Cess | | | | 2167 | |
| 11% Estt. & Genl. Charges on Materials | | | | 20146 | |
| Total Cost in Rs. | | | | 2,55,779 | |
| or say : | | | | 2,55,780 | |
| Cost of the Estimate in Lakhs | | | | 2.56 | |

46.COST DATA FOR ERECTION OF 100 KVA BEE 5Star-11KV/433V CONVENTIONAL TRANSFORMER

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|----------|--|----------|------------------------|--------------------------|
| 1 | DTA30013 | 11 KV/433V 100KVA Conventional Transformer | Each | 126822 | 4,563 |
| 2 | | Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 25X4mm GI flat and 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes) | Each | 15900 | 5,700 |
| 3 | ABS10016 | 11 KV 200 Amps AB Switch (Tilting) polymer type insulators | Each | 5727 | 956 |
| 4 | HGF10002 | Erection of 11 KV H.G. Fuse set | Each | 1776 | 583 |
| 5 | MCT30036 | LT Metering arrangements with CTs including cable(120sq.mm. Single Core XLPE) connections and cleat arrangement | Each | 14213 | 940 |
| 6 | OMT10049 | AMR Unit | Each | 5994 | |
| 7 | BXS00034 | Installation of A type distribuion box of 2-feeder with 500V,300A fuse units | Each | 13404 | 184 |
| 8 | LAS00001 | Installation of HT Lightening Arrestors (3No.s) | Each | 1037 | 605 |
| 9 | | Construction of Plinth for Mounting of 3-Ph DTR | L.S. | 0 | 20,000 |
| 10 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 1,86,523 | 33,531 |
| 3% storage & handling charges on items (1) to (7) | | | | 5366 | |
| 3% Contingencies on Materials | | | | 5596 | |
| Labour & Transport | | | | 33,531 | |
| GST @ 18% on Labour & Transport | | | | 6,036 | |
| 1% Cess | | | | 2201 | |
| 11% Estt. & Genl. Charges on Materials | | | | 20518 | |
| Total Cost in Rs. | | | | 2,59,770 | |
| or say : | | | | 2,59,770 | |
| Cost of the Estimate in Lakhs | | | | 2.60 | |

47.COST DATA FOR ERECTION OF 160 KVA BEE 5Star-11KV/433V CONVENTIONAL TRANSFORMER

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|----------|--|----------|------------------------|--------------------------|
| 1 | DTA30014 | 11 KV/433V 160KVA Conventional Transformer | Each | 206084 | 7,510 |
| 2 | | Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 25X4mm GI flat and 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes) | Each | 15900 | 5,700 |
| 3 | ABS10016 | 11 KV 200 Amps AB Switch (Tilting) polymer type insulators | Each | 5727 | 956 |
| 4 | HGF10002 | Erection of 11 KV H.G. Fuse set | Each | 1776 | 583 |
| 5 | MCT30036 | LT Metering arrangements with CTs including cable(185sq.mm. Single Core XLPE) connections and cleat arrangement | Each | 16872 | 940 |
| 6 | OMT10049 | AMR Unit | Each | 5994 | |
| 7 | BXS00034 | Installation of A type distribuion box of 2-feeder with 500V,300A fuse units | Each | 13404 | 184 |
| 8 | LAS00001 | Installation of HT Lightening Arrestors (3No.s) | Each | 1037 | 605 |
| 9 | | Construction of Plinth for Mounting of 3-Ph DTR | L.S. | 0 | 20,000 |
| 10 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 2,68,444 | 36,478 |
| 3% storage & handling charges on items (1) to (8) | | | | 7824 | |
| 3% Contingencies on Materials | | | | 8053 | |
| Labour & Transport | | | | 36,478 | |
| GST @ 18% on Labour & Transport | | | | 6,566 | |
| 1% Cess | | | | 3049 | |
| 11% Estt. & Genl. Charges on Materials | | | | 29529 | |
| Total Cost in Rs. | | | | 3,59,943 | |
| or say : | | | | 3,59,940 | |
| Cost of the Estimate in Lakhs | | | | 3.60 | |

48.COST DATA FOR ERECTION OF 315 KVA BEE 5Star-11KV/433V CONVENTIONAL TRANSFORMER

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|----------|--|----------|------------------------|--------------------------|
| 1 | DTC31112 | 11 KV/433V 315KVA Conventional Transformer | Each | 638984 | 7,510 |
| 2 | | Single Pole.Structure with 9.1Mtr PSCC Pole (Including Earthing with 25X4mm GI flat and 4mm GI wire duly erecting 1No CI pipe and 2nos GI pipes) | Each | 15900 | 5,700 |
| 3 | ABS10016 | 11 KV 200 Amps AB Switch (Tilting) polymer type insulators | Each | 5727 | 956 |
| 4 | HGF10002 | Erection of 11 KV H.G. Fuse set | Each | 1776 | 583 |
| 5 | MCT30036 | LT Metering arrangements with CTs including cable(185sq.mm. Single Core XLPE) connections and cleat arrangement | Each | 16872 | 940 |
| 6 | OMT10049 | AMR Unit | Each | 5994 | |
| 7 | BXS00034 | Installation of A type distribuion box of 2-feeder with 500V,300A fuse units | Each | 13404 | 184 |
| 8 | LAS00001 | Installation of HT Lightning Arrestors (3No.s) | Each | 1037 | 605 |
| 9 | | Construction of Plinth for Mounting of 3-Ph DTR | L.S. | 0 | 20,000 |
| 10 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 7,01,343 | 36,478 |
| 3% storage & handling charges on items (1) to (8) | | | | 20811 | |
| 3% Contingencies on Materials | | | | 21040 | |
| Labour & Transport | | | | 36,478 | |
| GST @ 18% on Labour & Transport | | | | 6,566 | |
| 1% Cess | | | | 7378 | |
| 11% Estt. & Genl. Charges on Materials | | | | 77148 | |
| Total Cost in Rs. | | | | 8,70,765 | |
| or say : | | | | 8,70,760 | |
| Cost of the Estimate in Lakhs | | | | 8.71 | |

49.COST DATA FOR SINGLE PHASE 16 KVA-6.3KV/0-240V CSP TRANSFORMER(Oil immersed) ON 9.1Mtr PSCC POLE SUPPORT

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|-----------------|---|-----------------|-------------------------------|-------------------------------------|
| 1 | DTA10005 | 6.3 KV/0-240V 16KVA Conventional Transformer | Each | 51000 | 437 |
| 2 | PLS00004 | 9.1 Mtr PSCC Pole | Each | 3275 | 994 |
| 3 | FBG00015 | Mounting arrangements for transformer | Each | 2355 | 618 |
| 4 | EMT00006 | Earthing with 1No 2.5 Mts Long 75 mm CI earth pipe | Each | 2707 | 450 |
| 5 | EMT00020 | Earthing with 1No 2.5 Mts Long 40 mm GI earth pipe | Each | 545 | 450 |
| 6 | ABS10018 | 6.3KV Single Phase 100A TT AB switches with insulators | Each | 4383 | 431 |
| 7 | HGF10003 | 6.3 KV HG Fuse Set with insulators | Each | 818 | 204 |
| 8 | BXS00034 | Distribution box with 1 No 100A Fuse unit and cleat wiring with 50 sqmm XLPE cable & LT side arm with strut | Each | 6384 | 303 |
| 9 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 73,117 | 3,887 |
| 3% storage & handling charges on items (1) to (8) | | | | 1948 | |
| 3% Contingencies on Materials | | | | 2194 | |
| Labour & Transport | | | | 3,887 | |
| GST @ 18% on Labour & Transport | | | | 700 | |
| 1% Cess | | | | 770 | |
| 11% Estt. & Genl. Charges on Materials | | | | 8043 | |
| Total Cost in Rs. | | | | 90,659 | |
| or say : | | | | 90,660 | |
| Cost of the Estimate in Lakhs | | | | 0.91 | |

**50.COST DATA FOR SINGLE PHASE 16 KVA-6.3KV/0-240V CSP TRANSFORMER(Oil immersed) ON
8.0Mtr,200Kgs PSCC POLE SUPPORT**

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|----------|---|----------|------------------------|--------------------------|
| 1 | DTA10005 | 6.3 KV/0-240V 16KVA Conventional Transformer | Each | 51000 | 437 |
| 2 | PLS00002 | 8.0 Mtr, 200Kgs PSCC Pole | Each | 1992 | 794 |
| 3 | FBG00015 | Mounting arrangements for transformer | Each | 2355 | 618 |
| 4 | EMT00006 | Earthing with 1No 2.5 Mts Long 75 mm CI earth pipe | Each | 2707 | 450 |
| 5 | EMT00020 | Earthing with 1No 1.8 Mts Long 40 mm GI earth pipe | Each | 545 | 450 |
| 6 | ABS10018 | 6.3KV Single Phase 100A TT AB switches with insulators | Each | 4383 | 431 |
| 7 | HGF10003 | 6.3 KV HG Fuse Set with insulators | Each | 818 | 204 |
| 8 | BXS00034 | Distribution box with 1 No 100A Fuse unit and cleat wiring with 50 sqmm XLPE cable & LT side arm with strut | Each | 6384 | 303 |
| 9 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 71,834 | 3,687 |
| 3% storage & handling charges on items (1) to (8) | | | | 1948 | |
| 3% Contingencies on Materials | | | | 2155 | |
| Labour & Transport | | | | 3,687 | |
| GST @ 18% on Labour & Transport | | | | 664 | |
| 1% Cess | | | | 755 | |
| 11% Estt. & Genl. Charges on Materials | | | | 7902 | |
| Total Cost in Rs. | | | | 88,945 | |
| or say : | | | | 88,950 | |
| Cost of the Estimate in Lakhs | | | | 0.89 | |

**51.COST DATA FOR SINGLE PHASE 16 KVA-6.3KV/0-240V CSP TRANSFORMER(Oil immersed) ON
8.0Mtr,300Kgs PSCC POLE SUPPORT**

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|----------|---|----------|------------------------|--------------------------|
| 1 | DTA10005 | 6.3 KV/0-240V 16KVA Conventional Transformer | Each | 51000 | 437 |
| 2 | PLS00003 | 8.0 Mtr, 300Kgs PSCC Pole | Each | 2360 | 794 |
| 3 | FBG00015 | Mounting arrangements for transformer | Each | 2355 | 618 |
| 4 | EMT00006 | Earthing with 1No 2.5 Mts Long 75 mm CI earth pipe | Each | 2707 | 450 |
| 5 | EMT00020 | Earthing with 1No 1.8 Mts Long 40 mm GI earth pipe | Each | 545 | 450 |
| 6 | ABS10018 | 6.3KV Single Phase 100A TT AB switches with insulators | Each | 4383 | 431 |
| 7 | HGF10003 | 6.3 KV HG Fuse Set with insulators | Each | 818 | 204 |
| 8 | BXS00034 | Distribution box with 1 No 100A Fuse unit and cleat wiring with 50 sqmm XLPE cable & LT side arm with strut | Each | 6384 | 303 |
| 9 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 72,203 | 3,687 |
| 3% storage & handling charges on items (1) to (8) | | | | 1948 | |
| 3% Contingencies on Materials | | | | 2166 | |
| Labour & Transport | | | | 3,687 | |
| GST @ 18% on Labour & Transport | | | | 664 | |
| 1% Cess | | | | 759 | |
| 11% Estt. & Genl. Charges on Materials | | | | 7942 | |
| Total Cost in Rs. | | | | 89,369 | |
| or say : | | | | 89,370 | |
| Cost of the Estimate in Lakhs | | | | 0.89 | |

**52.COST DATA FOR SINGLE PHASE 15 KVA-6.3KV/0-240V CSP (A1) TRANSFORMER(Oil immersed) ON 9.1Mtr
PSCC POLE SUPPORT**

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|-----------------|---|-----------------|-------------------------------|-------------------------------------|
| 1 | DTC10004 | 6.3 KV/0-240V 15KVA Conventional Transformer | Each | 37482 | 437 |
| 2 | PLS00004 | 9.1 Mtr PSCC Pole | Each | 3275 | 994 |
| 3 | FBG00015 | Mounting arrangements for transformer | Each | 2355 | 618 |
| 4 | EMT00006 | Earthing with 1No 2.5 Mts Long 75 mm CI earth pipe | Each | 2707 | 450 |
| 5 | EMT00020 | Earthing with 1No 1.8 Mts Long 40 mm GI earth pipe | Each | 545 | 450 |
| 6 | ABS10018 | 6.3KV Single Phase 100A TT AB switches with insulators | Each | 4383 | 431 |
| 7 | HGF10003 | 6.3 KV HG Fuse Set with insulators | Each | 818 | 204 |
| 8 | BXS00034 | Distribution box with 1 No 100A Fuse unit and cleat wiring with 50 sqmm XLPE cable & LT side arm with strut | Each | 6384 | 303 |
| 9 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 59,600 | 3,887 |
| 3% storage & handling charges on items (1) to (8) | | | | 1543 | |
| 3% Contingencies on Materials | | | | 1788 | |
| Labour & Transport | | | | 3,887 | |
| GST @ 18% on Labour & Transport | | | | 700 | |
| 1% Cess | | | | 635 | |
| 11% Estt. & Genl. Charges on Materials | | | | 6556 | |
| Total Cost in Rs. | | | | 74,708 | |
| or say : | | | | 74,710 | |
| Cost of the Estimate in Lakhs | | | | 0.75 | |

**53.COST DATA FOR SINGLE PHASE 15 KVA-6.3KV/0-240V CSP (AI) TRANSFORMER(Oil immersed) ON
8.0Mtr,200Kgs PSCC POLE SUPPORT**

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|----------|---|----------|------------------------|--------------------------|
| 1 | DTC10004 | 6.3 KV/0-240V 15KVA Conventional Transformer | Each | 37482 | 437 |
| 2 | PLS00002 | 8.0 Mtr, 200Kgs PSCC Pole | Each | 1992 | 794 |
| 3 | FBG00015 | Mounting arrangements for transformer | Each | 2355 | 618 |
| 4 | EMT00006 | Earthing with 1No 2.5 Mts Long 75 mm CI earth pipe | Each | 2707 | 450 |
| 5 | EMT00020 | Earthing with 1No 1.8 Mts Long 40 mm GI earth pipe | Each | 545 | 450 |
| 6 | ABS10018 | 6.3KV Single Phase 100A TT AB switches with insulators | Each | 4383 | 431 |
| 7 | HGF10003 | 6.3 KV HG Fuse Set with insulators | Each | 818 | 204 |
| 8 | BXS00034 | Distribution box with 1 No 100A Fuse unit and cleat wiring with 50 sqmm XLPE cable & LT side arm with strut | Each | 6384 | 303 |
| 9 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 58,317 | 3,687 |
| 3% storage & handling charges on items (1) to (8) | | | | 1543 | |
| 3% Contingencies on Materials | | | | 1750 | |
| Labour & Transport | | | | 3,687 | |
| GST @ 18% on Labour & Transport | | | | 664 | |
| 1% Cess | | | | 620 | |
| 11% Estt. & Genl. Charges on Materials | | | | 6415 | |
| Total Cost in Rs. | | | | 72,994 | |
| or say : | | | | 72,990 | |
| Cost of the Estimate in Lakhs | | | | 0.73 | |

**54.COST DATA FOR SINGLE PHASE 15 KVA-6.3KV/0-240V CSP (AI) TRANSFORMER(Oil immersed) ON
8.0Mtr,300Kgs PSCC POLE SUPPORT**

| Sl. No. | SAP Code | Particulars | Per Unit | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|---|-----------------|---|-----------------|-------------------------------|-------------------------------------|
| 1 | DTC10004 | 6.3 KV/0-240V 15KVA Conventional Transformer | Each | 37482 | 437 |
| 2 | PLS00003 | 8.0 Mtr, 300Kgs PSCC Pole | Each | 2360 | 794 |
| 3 | FBG00015 | Mounting arrangements for transformer | Each | 2355 | 618 |
| 4 | EMT00006 | Earthing with 1No 2.5 Mts Long 75 mm CI earth pipe | Each | 2707 | 450 |
| 5 | EMT00020 | Earthing with 1No 1.8 Mts Long 40 mm GI earth pipe | Each | 545 | 450 |
| 6 | ABS10018 | 6.3KV Single Phase 100A TT AB switches with insulators | Each | 4383 | 431 |
| 7 | HGF10003 | 6.3 KV HG Fuse Set with insulators | | 818 | 204 |
| 8 | BXS00034 | Distribution box with 1 No 100A Fuse unit and cleat wiring with 50 sqmm XLPE cable & LT side arm with strut | Each | 6384 | 303 |
| 9 | | Misc. Items(Danger boards,Bolts &Nuts,Concreting etc.) | L.S. | 1650 | |
| Total Cost of Material | | | | 58,685 | 3,687 |
| 3% storage & handling charges on items (1) to (8) | | | | 1543 | |
| 3% Contingencies on Materials | | | | 1761 | |
| Labour & Transport | | | | 3,687 | |
| GST @ 18% on Labour & Transport | | | | 664 | |
| 1% Cess | | | | 624 | |
| 11% Estt. & Genl. Charges on Materials | | | | 6455 | |
| Total Cost in Rs. | | | | 73,418 | |
| or say : | | | | 73,420 | |
| Cost of the Estimate in Lakhs | | | | 0.73 | |

**55. R.E.C. - CONSTRUCTION STANDARD SPECIFICATION NO. H1&H3/1981
COST DATA FOR SINGLE PHASE AGRICULTURE SERVICE ERECTED ON SUPPORT**

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---------|----------|---|------|-------------|----------|---------------|
| 1 | MTE10019 | 1 Phase (5-30A) Energy meter | 1 | 639 | Each | 639 |
| 2 | | 1 Phase 15A M.C.B./Fuse Unit | 1 | 201 | Each | 201 |
| 3 | | P.V.C. Cable 6 Sq.mm Single Core | 20 | 5.25 | Each | 105 |
| 4 | BXS00024 | Moulded Distribution Box | 1 | 381 | Each | 380.59683 |
| 5 | | P.V.C. Bends 38mm | 1 | 22 | Each | 22 |
| 6 | | Bolts, Nuts etc. | L.S. | L.S. | L.S. | 80 |
| | | Total Cost of Material | | | | 1,428 |
| | | 3% storage & handling charges on items (1) to (5) | | 1348 | | 40 |
| | | 3% Contingencies on Materials | | | | 43 |
| | | Labour & Transport | | | | 286 |
| | | GST @ 18% on Labour & Transport | | | | 59 |
| | | 1% Cess | | | | 17 |
| | | 11% Estt. & Genl. Charges | | | | 157 |
| | | Total Cost in Rs. | | | | 2,030 |
| | | Or say : | | | | 2,030 |

**56. R.E.C. - CONSTRUCTION STANDARD SPECIFICATION NO. H6&H8/1981
COST DATA FOR RELEASE OF POLY PHASE AGRICULTURE SERVICE ERECTED ON SUPPORT**

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|----------------|-----------------|---|-------------|--------------------|-----------------|----------------------|
| 1 | MTE30022 | 3 Phase (10A-40A) Energy meter | 1 | 1,604 | Each | 1604 |
| 2 | | 3 Phase 40A M.C.B./Fuse Unit (3 Nos.) | 1 | 729 | Each | 729 |
| 3 | | P.V.C. Cable 6 Sq.mm Single Core | 30 | 5 | Each | 157 |
| 4 | BXS00024 | Moulded Distribution Box | 1 | 529 | Each | 529.43915 |
| 5 | | Installation of 2KVAR Capacitor | 1 | 500 | 1 | 500 |
| 6 | | Misc. items such as Bolts, Nuts & Board etc. | L.S. | L.S. | L.S. | 80 |
| | | Total Cost of Material | | | | 3,600 |
| | | 3% storage & handling charges on items (1) to (5) | | 3520 | | 106 |
| | | 3% Contingencies on Materials | | | | 108 |
| | | Labour & Transport | | | | 720 |
| | | GST @ 18% on Labour & Transport | | | | 149 |
| | | 1% Cess | | | | 43 |
| | | 11% Estt. & Genl. Charges | | | | 396 |
| | | Total Cost in Rs. | | | | 5,121 |
| | | Or say : | | | | 5,120 |

**57. R.E.C.-CONSTRUCTION STANDARD SPECIFICATION NO.H1 TO H3/1981
COST DATA FOR DOMESTIC AND NON-DOMESTIC SERVICE CONNECTION (SINGLE PHASE) WITH QUALITY
METER**

| Sl. No. | SAP Code | Particulars | Rate | Chargable to DISCOM | | Chargable to Consumer | | Amount in Rs. |
|---------|----------|---|-------|---------------------|--------------|-----------------------|-------------|---------------|
| | | | | Qty. | Amount | Qty. | Amount | |
| 1 | MTE10019 | Single Phase electronic Energy Meter 5-30A.IRPort withPP Box | 675/E | 1 | 639 | | | 639 |
| 2 | | 15A M.C.B./Fuse Unit | 201/E | 1 | 201 | | | 201 |
| 3 | | P.V.C. Cable single core 2.5 Sq.mm | 20/M | | | 60 | 1200 | 1200 |
| 4 | BXS00024 | Moulded Distribution Box | 381/E | 1 | 381 | | | 380.59683 |
| 5 | | G.I. Wire No.8 | 60/Kg | | | 1 | 60 | 60 |
| 6 | | P.V.C. Pipe 20mm | 25/M | | | 2 | 50 | 50 |
| 7 | | P.V.C. Bends 20mm | 5/E | | | 2 | 10 | 10 |
| 8 | | Misc. | L.S | | | | 85 | 85 |
| | | Total | | | 1,221 | | 1405 | 2626 |
| | | 3% storage & handling charges on items (1,2&4) | | | | | | 37 |
| | | 3% Contingencies on Materials | | | | | | 79 |
| | | Labour & Transport | | | | | | 525 |
| | | GST @ 18% on Labour & Transport | | | | | | 95 |
| | | 1% Cess | | | | | | 32 |
| | | 11% Estt. & Genl. Charges | | | | | | 289 |
| | | Total Cost in Rs. | | | | | | 3,681 |
| | | Or say : | | | | | | 3,680 |

Note : Item Nos. 4 to 7 are to be borne & arranged by the Consumer.

**58. R.E.C.-CONSTRUCTION STANDARD SPECIFICATION NO.H1 TO H3/1981
COST DATA FOR DOMESTIC AND NON-DOMESTIC SERVICE CONNECTION (SINGLE PHASE) WITH ELECTRONIC
METER**

| Sl. No. | SAP Code | Particulars | Rate | Chargable to DISCOM | | Chargable to Consumer | | Amount in Rs. |
|---------|----------|--|-------|---------------------|-----------------|-----------------------|-------------|---------------|
| | | | | Qty. | Amount | Qty. | Amount | |
| 1 | MTE10015 | Single Phase electronic Energy Meter 2.5-10A | 447/E | 1 | 447 | | | 447 |
| 2 | | 15A M.C.B./Fuse Unit | 201/E | 1 | 201 | | | 201 |
| 3 | | P.V.C. Cable single core 2.5 Sq.mm | 20/M | | | 60 | 1200 | 1200 |
| 4 | BXS00024 | Moulded Distribution Box | 381/E | 1 | 381 | | | 380.59683 |
| 5 | | G.I. Wire No.8 | 60/Kg | | | 1 | 60 | 60 |
| 6 | | P.V.C. Pipe 20mm | 25/M | | | 2 | 50 | 50 |
| 7 | | P.V.C. Bends 20mm | 5/E | | | 2 | 10 | 10 |
| 8 | | Misc. | L.S | | | | 85 | 85 |
| | | Total | | | 1028.124 | | 1405 | 2433 |
| | | 3% storage & handling charges on items (1,2&4) | | | | | | 31 |
| | | 3% Contingencies on Materials | | | | | | 73 |
| | | Labour & Transport | | | | | | 487 |
| | | GST @ 18% on Labour & Transport | | | | | | 88 |
| | | 1% Cess | | | | | | 29 |
| | | 11% Estt. & Genl. Charges | | | | | | 268 |
| | | Total Cost in Rs. | | | | | | 3,408 |
| | | Or say : | | | | | | 3,410 |

Note: Item Nos. 4 to 7 are to be borne & arranged by the Consumer.

**59. R.E.C.-CONSTRUCTION STANDARD SPECIFICATION NO.H1 TO H3/1981
COST DATA FOR DOMESTIC AND NON-DOMESTIC SERVICE CONNECTION (SINGLE PHASE) WITH QUALITY
METER**

| Sl. No. | SAP Code | Particulars | Rate | Chargable to DISCOM | | Chargable to Consumer | | Amount in Rs. |
|---------|----------|--|-------|---------------------|-----------------|-----------------------|-------------|---------------|
| | | | | Qty. | Amount | Qty. | Amount | |
| 1 | MTE10019 | Single Phase Quality Energy Meter 5-20A | 675/E | 1 | 639 | | | 639 |
| 2 | | 15A M.C.B./Fuse Unit | 201/E | 1 | 201 | | | 201 |
| 3 | | P.V.C. Cable single core 2.5 Sq.mm | 20/M | | | 60 | 1200 | 1200 |
| 4 | BXS00024 | Moulded Distribution Box | 381/E | 1 | 381 | | | 380.59683 |
| 5 | | G.I. Wire No.8 | 60/Kg | | | 1 | 60 | 60 |
| 6 | | P.V.C. Pipe 20mm | 25/M | | | 2 | 50 | 50 |
| 7 | | P.V.C. Bends 20mm | 5/E | | | 2 | 10 | 10 |
| 8 | | Misc. | L.S | | | | 85 | 85 |
| | | Total | | | 1220.602 | | 1405 | 2626 |
| | | 3% storage & handling charges on items (1,2&4) | | | | | | 37 |
| | | 3% Contingencies on Materials | | | | | | 79 |
| | | Labour & Transport | | | | | | 525 |
| | | GST @ 18% on Labour & Transport | | | | | | 95 |
| | | 1% Cess | | | | | | 32 |
| | | 11% Estt. & Genl. Charges | | | | | | 289 |
| | | Total Cost in Rs. | | | | | | 3,681 |
| | | Or say : | | | | | | 3,680 |

Note: Item Nos. 4 to 7 are to be borne & arranged by the Consumer.

**60. R.E.C.-CONSTRUCTION STANDARD SPECIFICATION NO.H1 TO H3/1981
COST DATA FOR DOMESTIC AND NON-DOMESTIC SERVICE CONNECTION (THREE PHASE)**

| Sl. No. | SAP Code | Particulars | Rate | Chargable to DISCOM | | Chargable to Consumer | | Amount in Rs. |
|---------|----------|--|-----------|---------------------|----------------|-----------------------|-------------|---------------|
| | | | | Qty. | Amount | Qty. | Amount | |
| 1 | MTE30022 | Three Phase electronic Energy Meter 10-40A | 1565.50/E | 1 | 1,603.86 | | | 1604 |
| 2 | | 3 Phase 60A M.C.B./Fuse Unit | 1477/E | 1 | 1,477 | | | 1477 |
| 3 | BXS00024 | Moulded Distribution Box | 530/E | 1 | 529 | | | 529 |
| 4 | | P.V.C. Cable single core 6 Sq.mm | 28/M | | | 120 | 3360 | 3360 |
| 5 | | G.I. Wire No.8 | 60/Kg | | | 1 | 60 | 60 |
| 6 | | P.V.C. Pipe 20mm | 25/M | | | 2 | 50 | 50 |
| 7 | | P.V.C. Bends 20mm | 5/E | | | 2 | 10 | 10 |
| 8 | | Misc. | L.S | | | | 95 | 95 |
| | | Total | | | 3610.30 | | 3575 | 7185 |
| | | 3% storage & handling charges on items (1,2&3) | | | | | | 108 |
| | | 3% Contingencies on Materials | | | | | | 216 |
| | | Labour & Transport | | | | | | 1,437 |
| | | GST @ 18% on Labour & Transport | | | | | | 259 |
| | | 1% Cess | | | | | | 86 |
| | | 11% Estt. & Genl. Charges | | | | | | 790 |
| | | Total Cost in Rs. | | | | | | 10,081 |
| | | Or say : | | | | | | 10,080 |

Note : Item Nos. 4 to 7 are to be borne & arranged by the Consumer.

**61. R.E.C.-CONSTRUCTION STANDARD SPECIFICATION NO.H1 TO H3/1981
COST DATA FOR DOMESTIC AND NON-DOMESTIC SERVICE CONNECTION (THREE PHASE) WITH ELECTRONIC
METER**

| Sl. No. | SAP Code | Particulars | Rate | Chargable to DISCOM | | Chargable to Consumer | | Amount in Rs. |
|---------|----------|--|-----------|---------------------|--------------|-----------------------|-------------|---------------|
| | | | | Qty. | Amount | Qty. | Amount | |
| 1 | MTE30022 | 3 Phase Electronic Energy Meter Housed in box 10-40A | 1565.50/E | 1 | 1,604 | | | 1604 |
| 2 | | 3 phase 60A M.C.B./Fuse Unit | 1477/E | 1 | 1,477 | | | 1477 |
| 3 | | P.V.C. Cable single core 6 Sq.mm | 28/M | | | 120 | 3360 | 3360 |
| 4 | | G.I. Wire No.8 | 60/Kg | | | 1 | 60 | 60 |
| 5 | | P.V.C. Pipe 20mm | 25/M | | | 2 | 50 | 50 |
| 6 | | P.V.C. Bends 20mm | 5/E | | | 2 | 10 | 10 |
| 7 | | Misc. | L.S | | | | 95 | 95 |
| | | Total | | | 3,081 | | 3575 | 6656 |
| | | 3% storage & handling charges on items (1&2) | | | | | | 92 |
| | | 3% Contingencies on Materials | | | | | | 200 |
| | | Labour & Transport | | | | | | 1,331 |
| | | GST @ 18% on Labour & Transport | | | | | | 240 |
| | | 1% Cess | | | | | | 80 |
| | | 11% Estt. & Genl. Charges | | | | | | 732 |
| | | Total Cost in Rs. | | | | | | 9331 |
| | | Or say : | | | | | | 9,330 |

Note : Item Nos. 4 to 7 are to be borne & arranged by the Consumer.

**62. R.E.C.-CONSTRUCTION STANDARD SPECIFICATION NO.H-5/1981
COSTDATA FOR POLY PHASE SERVICE CONNECTION CHARGES FOR ERECTION OF 1 NO. INDUSTRIAL SERVICE
(UPTO 15 H.P.)**

| Sl. No. | SAP Code | Particulars | Rate | Chargable to DISCOM | | Chargable to Consumer | | Amount in Rs. |
|---------|----------|--|-----------|---------------------|--------------|-----------------------|-------------|---------------|
| | | | | Qty. | Amount | Qty. | Amount | |
| 1 | MTE30022 | Poly Phase Energy Meter housed 10 - 40A | 1565.50/E | 1 | 1,603.86 | | | 1604 |
| 2 | | 3 phase 60A M.C.B./Fuse unit | 1477/E | 1 | 1,477 | | | 1477 |
| 3 | | Moulded Box for CT Meter | 1647/E | 1 | 1954.929 | | | 1955 |
| 4 | | P.V.C. Cable single core 10 Sq.mm | 43/M | | | 80 | 3440 | 3440 |
| 5 | | G.I. Wire No.8 | 60/Kg | | | 1 | 60 | 60 |
| 6 | | P.V.C. Pipe 38mm | 41.5/M | | | 2 | 83 | 83 |
| 7 | | P.V.C. Bends 38mm | 22/E | | | 2 | 44 | 44 |
| 8 | | Misc. items viz. link clips, wooden box, Bolts & Nuts. | L.S | | 75 | | 125 | 200 |
| | | Total | | | 5,036 | | 3752 | 8863 |
| | | 3% storage & handling charges on items (1,2&3) | | | | | | 151 |
| | | 3% Contingencies on Materials | | | | | | 266 |
| | | Labour & Transport | | | | | | 1,773 |
| | | GST @ 18% on Labour & Transport | | | | | | 319 |
| | | 1% Cess | | | | | | 106 |
| | | 11% Estt. & Genl. Charges | | | | | | 975 |
| | | | | | | | | 12453 |
| | | Or say : | | | | | | 12,450 |

**63. R.E.C.-CONSTRUCTION STANDARD SPECIFICATION NO.H-5/1981
COST DATA FOR POLY PHASE SERVICE CONNECTION CHARGES FOR ERECTION OF 1 NO. INDUSTRIAL
SERVICE (UPTO 15 H.P.) (C T METER)**

| Sl. No. | SAP Code | Particulars | Rate | Chargable to DISCOM | | Chargable to Consumer | | Amount in Rs. |
|---------|----------|---|--------|---------------------|-------------|-----------------------|-------------|---------------|
| | | | | Qty. | Amount | Qty. | Amount | |
| 1 | MCT30051 | 3 Phase LTTVR 125/5A,0.5cLASS without DLMS | 5895/E | 1 | 6099 | | | 6099 |
| 2 | | 3 phase 60A M.C.B./Fuse unit | 1477/E | 1 | 1,477 | | | 1477 |
| 3 | | P.V.C. Cable single core 10 Sq.mm | 43/M | | | 120 | 5160 | 5160 |
| 4 | | G.I. Wire No.8 | 60/Kg | | | 1 | 60 | 60 |
| 5 | | P.V.C. Pipe 38mm | 41.5/M | | | 2 | 83 | 83 |
| 6 | | P.V.C. Bends 38mm | 22/E | | | 2 | 44 | 44 |
| 7 | | Misc. items viz. link clips, wooden box, Bolts & nuts | L.S | | 75 | | 125 | 200 |
| | | Total | | | 7576 | | 5472 | 13123 |
| | | 3% storage & handling charges on items (1&2) | | | | | | 227 |
| | | 3% Contingencies on Materials | | | | | | 394 |
| | | Labour & Transport | | | | | | 2,625 |
| | | GST @ 18% on Labour & Transport | | | | | | 472 |
| | | 1% Cess | | | | | | 157 |
| | | 11% Estt. & Genl. Charges | | | | | | 1444 |
| | | Total Cost in Rs. | | | | | | 18442 |
| | | Or say : | | | | | | 18,440 |

**64. R.E.C.-CONSTRUCTION STANDARD SPECIFICATION NO.H-5/1981
COST DATA FOR POLY PHASE SERVICE CONNECTION FOR ERECTION OF 1 NO. INDUSTRIAL SERVICE (ABOVE
15 H.P.) (C.T. METER)**

| Sl. No. | SAP Code | Particulars | Rate | Chargable to DISCOM | | Chargable to Consumer | | Amount in Rs. |
|---------|----------|--|--------|---------------------|-------------|-----------------------|-------------|---------------|
| | | | | Qty. | Amount | Qty. | Amount | |
| 1 | MCT30036 | L.T. 3-Phase class-0.5 Accuracy CT Operated(200/5A) Energy Meter Housed in a box | 5994/E | 1 | 5664 | | | 5664 |
| 2 | | P.V.C. Cable single core 10 Sq.mm | 43/M | | | 80 | 3440 | 3440 |
| 3 | | G.I. Wire No.8 | 60/Kg | | | 1 | 60 | 60 |
| 4 | | P.V.C. Pipe 38mm | 41.5/M | | | 2 | 83 | 83 |
| 5 | | P.V.C. Bends 38mm | 22/E | | | 2 | 44 | 44 |
| 6 | | Misc. items viz. link clips, wooden box, Bolts & Nuts. | L.S | | 75 | | 100 | 175 |
| | | Total | | | 5739 | | 3727 | 9466 |
| | | 3% storage & handling charges on items (1) | | | | | | 170 |
| | | 3% Contingencies on Materials | | | | | | 284 |
| | | Labour & Transport | | | | | | 1,893 |
| | | GST @ 18% on Labour & Transport | | | | | | 341 |
| | | 1% Cess | | | | | | 114 |
| | | 11% Estt. & Genl. Charges | | | | | | 1041 |
| | | Total Cost in Rs. | | | | | | 13,309 |
| | | Or say : | | | | | | 13310 |

65. COST DATA FOR POLY PHASE SERVICE CONNECTION FOR ERECTION OF 1 NO. LT INDUSTRIAL SERVICE 50 HP & UPTO 75 HP (HT METERING WITH DP STRUCTURE ARRANGEMENT)

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|----------|----------|--|-----------|--------------|-------------|-----------------|
| 1 | | DP Structure with 9.1Mts PSCC Poles | 2 | 30485 | Each | 60970 |
| | PLS00004 | a) 9.1 mts PSCC poles | 4 | 13098 | | |
| | FBR10013 | b) DP Structure Material Total Set | 2 | 15647 | | |
| | FBR10010 | c) MS Stay sets Complete with base plate | 4 | 1504 | | |
| | FBR00004 | d) MS Stay Clamps | 4 | 235 | | |
| 2 | | Isolating Switches | 2 | 18377 | Each | 36754 |
| | ABS10004 | a) 11 KV,200A Horizontal AB Switch | 2 | 14826 | | |
| | HGF10002 | b) 11 KV HG Fuse set | 2 | 3552 | | |
| 3 | | 11 KV Metering Equipment (HT Metering) | 1 | 59896 | Each | 59896 |
| | ITR10030 | a) 11 KV CT PT 10-20/5 A | 1 | 42841 | | |
| | MHT10003 | b) HT Trivector Meter (Class 0.2 S) | 1 | 4589 | | |
| | OMT10049 | c) AMR Unit with modem for communication | 1 | 5994 | | |
| | BXS00004 | d) Special type HT meter box | 1 | 4515 | | |
| | CBP00002 | e) Coper control cable 4 x 2.5 sqmm for wiring | 30 | 1957 | | |
| 4 | | 11 KV 3 Core XLPE UG Cable | 1 | 40670 | Each | 40670 |
| | CBX10002 | a) 11 KV 3x35 sqmm XLPE UG Cable | 30 | 9358 | | |
| | SCB10037 | b) End termination kits suitable for 35 sq.mm XLPE UG Cable (outdoor tvpe) | 2 | 19799 | | |
| | SCB10038 | c) End termination kits suitable for 35 sq.mm XLPE UG Cable (indoor type) | 2 | 11514 | | |
| 5 | | 11 KV LAS & Earthing | 1 | 2672 | Each | 2672 |
| | LAS00001 | a) 11 KV metal oxide 5 KA Las (line type) | 3 | 1037 | | |
| | EMT00020 | b) GI Earth pipe 40 mm (2.5 mts. Length) | 3 | 1635 | | |
| 6 | | Misc. items viz. link clips,wooden box, bolts & nuts, bends etc | LS | 605 | LS | 605 |
| | | Total | | 200963 | | 2,01,568 |
| | | 3% storage & handling charges on items (1) to (5) | | | | 6,029 |
| | | 3% Contingencies on Materials | | | | 6047 |
| | | Labour & Transport | | | | 50,241 |
| | | GST @ 18% on Labour & Transport | | | | 9043 |
| | | 1% Cess | | | | 2518 |
| | | 11% Estt. & Genl. Charges | | | | 22,172 |
| | | Total Cost in Rs. | | | | 2,97,618 |
| | | Or say : | | | | 2,97,620 |

66. COST DATA FOR POLY PHASE SERVICE CONNECTION FOR ERECTION OF 1 NO. LT INDUSTRIAL SERVICE 50 HP & UPTO 75 HP (HT METERING WITH SP STRUCTURE ARRANGEMENT)

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|----------|----------|---|-----------|--------------|-------------|-----------------|
| 1 | | SP Structure with 9.1Mts PSCC Poles | 2 | 8238 | Each | 16475 |
| | PLS00004 | a) 9.1 mts PSCC poles | 2 | 6549 | | |
| | FBR10031 | b) SP Structure Material Total Set | 2 | 819 | | |
| | FBR10010 | c) MS Stay sets Complete with base plate | 2 | 752 | | |
| | FBR00004 | d) MS Stay Clamps | 2 | 118 | | |
| 2 | | Isolating Switches | 2 | 15006 | Each | 30013 |
| | ABS10016 | a) 11 KV,200A Tilting type AB Switch (Polymer) | 2 | 11455 | | |
| | HGF10002 | b) 11 KV HG Fuse set | 2 | 3552 | | |
| 3 | | 11 KV Metering Equipment (HT Metering) | 1 | 59896 | Each | 59896 |
| | ITR10030 | a) 11 KV CT PT 10-20/5 A | 1 | 42841 | | |
| | MHT10003 | b) HT Trivector Meter (Class 0.2 S) | 1 | 4589 | | |
| | OMT10049 | c) AMR Unit with modem for communication | 1 | 5994 | | |
| | BXS00004 | d) Special type HT meter box | 1 | 4515 | | |
| | CBP00002 | e) Coper control cable 4 x 2.5 sqmm for wiring | 30 | 1957 | | |
| 4 | | 11 KV 3 Core XLPE UG Cable | 1 | 40670 | Each | 40670 |
| | CBX10002 | a) 11 KV 3x35 sqmm XLPE UG Cable | 30 | 9358 | | |
| | SCB10037 | b) End termination kits suitable for 35 sq.mm XLPE UG Cable (outdoor type) | 2 | 19799 | | |
| | SCB10038 | c) End termination kits suitable for 35 sq.mm XLPE UG Cable (indoor type) | 2 | 11514 | | |
| 5 | | 11 KV LAS & Earthing | 1 | 2672 | Each | 2672 |
| | LAS00001 | a) 11 KV metal oxide 5 KA Las (line type) | 3 | 1037 | | |
| | EMT00020 | b) GI Earth pipe 40 mm (2.5 mts. Length) | 3 | 1635 | | |
| 6 | | Misc. items viz. link clips, wooden box, bolts & nuts, bends etc | LS | 605 | LS | 605 |
| | | Total | | 149727 | | 1,50,332 |
| | | 3% storage & handling charges on items (1) to (5) | | | | 4,492 |
| | | 3% Contingencies on Materials | | | | 4510 |
| | | Labour & Transport | | | | 37,432 |
| | | GST @ 18% on Labour & Transport | | | | 6738 |
| | | 1% Cess | | | | 1878 |
| | | 11% Estt. & Genl. Charges | | | | 16,537 |
| | | Total Cost in Rs. | | | | 2,21,917 |
| | | Or say : | | | | 2,21,920 |

67. COST DATA FOR 11KV HT SERVICE CONNECTION OF LOAD 70KVA TO 1000KVA WITH DP STRUCTURE ARRANGEMENT

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|----------|----------|---|-----------|--------------|-------------|-----------------|
| 1 | | DP Structure with 9.1Mts PSCC Poles | 2 | 30485 | Each | 60970 |
| | PLS00004 | a) 9.1 mts PSCC poles | 4 | 13098 | | |
| | FBR10013 | b) DP Structure Material Total Set | 2 | 15647 | | |
| | FBR10010 | c) MS Stay sets Complete with base plate | 4 | 1504 | | |
| | FBR00004 | d) MS Stay Clamps | 4 | 235 | | |
| 2 | | Isolating Switches | 2 | 18377 | Each | 36754 |
| | ABS10004 | a) 11 KV,200A Horizontal AB Switch | 2 | 14826 | | |
| | HGF10002 | b) 11 KV HG Fuse set | 2 | 3552 | | |
| 3 | | 11 KV Metering Equipment (HT Metering) | 1 | 59896 | Each | 59896 |
| | ITR10030 | a) 11 KV CT PT 10-20/5 A | 1 | 42841 | | |
| | MHT10003 | b) HT Trivector Meter (Class 0.2 S) | 1 | 4589 | | |
| | OMT10049 | c) AMR Unit with modem for communication | 1 | 5994 | | |
| | BXS00004 | d) Special type HT meter box | 1 | 4515 | | |
| | CBP00002 | e) Coper control cable 4 x 2.5 sqmm for wiring | 30 | 1957 | | |
| 4 | | 11 KV 3 Core XLPE UG Cable | 1 | 51154 | Each | 51154 |
| | CBX10005 | a) 11 KV upto 3x95 sqmm XLPE UG Cable | 30 | 19841 | | |
| | SCB10037 | b) End termination kits suitable for 95 sq.mm XLPE UG Cable (outdoor type) | 2 | 19799 | | |
| | SCB10038 | c) End termination kits suitable for 95 sq.mm XLPE UG Cable (indoor type) | 2 | 11514 | | |
| 5 | | 11 KV LAS & Earthing | 1 | 2672 | Each | 2672 |
| | LAS00001 | a) 11 KV metal oxide 5 KA Las (line type) | 3 | 1037 | | |
| | EMT00020 | b) GI Earth pipe 40 mm (2.5 mts. Length) | 3 | 1635 | | |
| 6 | | Misc. items viz. link clips, wooden box, bolts & nuts, bends etc | LS | 605 | LS | 605 |
| | | Total | | 211446 | | 2,12,051 |
| | | 3% storage & handling charges on items (1) to (5) | | | | 6,343 |
| | | 3% Contingencies on Materials | | | | 6362 |
| | | Labour & Transport | | | | 52,862 |
| | | GST @ 18% on Labour & Transport | | | | 9515 |
| | | 1% Cess | | | | 2649 |
| | | 11% Estt. & Genl. Charges | | | | 23,326 |
| | | Total Cost in Rs. | | | | 3,13,107 |
| | | Or say : | | | | 3,13,110 |

68. COST DATA FOR 11KV HT SERVICE CONNECTION OF LOAD 70KVA TO 1000KVA WITH SP STRUCTURE ARRANGEMENT

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|----------|----------|--|-----------|--------------|-------------|-----------------|
| 1 | | SP Structure with 9.1Mts PSCC Poles | 2 | 14787 | Each | 29573 |
| | PLS00004 | a) 9.1 mts PSCC poles | 2 | 13098 | | |
| | FBR10031 | b) SP Structure Material Total Set | 2 | 819 | | |
| | FBR10010 | c) MS Stay sets Complete with base plate | 2 | 752 | | |
| | FBR00004 | d) MS Stay Clamps | 2 | 118 | | |
| 2 | | Isolating Switches | 2 | 15006 | Each | 30013 |
| | ABS10016 | a) 11 KV,200A Tilting type AB Switch (Polymer) | 2 | 11455 | | |
| | HGF10002 | b) 11 KV HG Fuse set | 2 | 3552 | | |
| 3 | | 11 KV Metering Equipment (HT Metering) | 1 | 59896 | Each | 59896 |
| | ITR10030 | a) 11 KV CT PT 10-20/5 A | 1 | 42841 | | |
| | MHT10003 | b) HT Trivector Meter (Class 0.2 S) | 1 | 4589 | | |
| | OMT10049 | c) AMR Unit with modem for communication | 1 | 5994 | | |
| | BXS00004 | d) Special type HT meter box | 1 | 4515 | | |
| | CBP00002 | e) Coper control cable 4 x 2.5 sqmm for wiring | 30 | 1957 | | |
| 4 | | 11 KV 3 Core XLPE UG Cable | 1 | 51154 | Each | 51154 |
| | CBX10005 | a) 11 KV upto 3x95 sqmm XLPE UG Cable | 30 | 19841 | | |
| | SCB10037 | b) End termination kits suitable for 95 sq.mm XLPE UG Cable (outdoor type) | 2 | 19799 | | |
| | SCB10038 | c) End termination kits suitable for 95 sq.mm XLPE UG Cable (indoor tvpe) | 2 | 11514 | | |
| 5 | | 11 KV LAS & Earthing | 1 | 2672 | Each | 2672 |
| | LAS00001 | a) 11 KV metal oxide 5 KA Las (line type) | 3 | 1037 | | |
| | EMT00020 | b) GI Earth pipe 40 mm (2.5 mts. Length) | 3 | 1635 | | |
| 6 | | Misc. items viz. link clips,wooden box, bolts & nuts, bends etc | LS | 605 | LS | 605 |
| | | Total | | 173308 | | 1,73,913 |
| | | 3% storage & handling charges on items (1) to (5) | | | | 5,199 |
| | | 3% Contingencies on Materials | | | | 5217 |
| | | Labour & Transport | | | | 43,327 |
| | | GST @ 18% on Labour & Transport | | | | 7799 |
| | | 1% Cess | | | | 2172 |
| | | 11% Estt. & Genl. Charges | | | | 19,130 |
| | | Total Cost in Rs. | | | | 2,56,759 |
| | | Or say : | | | | 2,56,760 |

69. COST DATA FOR 11KV HT SERVICE CONNECTION OF LOAD ABOVE 1000KVA ALONG WITH VCB AND DP STRUCTURE ARRANGEMENT

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|----------|----------|--|-----------|---------------|-------------|-----------------|
| 1 | | DP Structure with 9.1Mts PSCC Poles | 2 | 30485 | Each | 60970 |
| | PLS00004 | a) 9.1 mts PSCC poles | 4 | 13098 | | |
| | FBR10013 | b) DP Structure Material Total Set | 2 | 15647 | | |
| | FBR10010 | c) MS Stay sets Complete with base plate | 4 | 1504 | | |
| | FBR00004 | d) MS Stay Clamps | 4 | 235 | | |
| 2 | | Isolating Switches | 2 | 18377 | Each | 36754 |
| | ABS10004 | a) 11 KV,200A Horizontal AB Switch | 2 | 14826 | | |
| | HGF10002 | b) 11 KV HG Fuse set | 2 | 3552 | | |
| 3 | | 11KV Bay along with VCB | 1 | 472402 | Each | 472402 |
| 4 | | 11 KV Metering Equipment (HT Metering) | 1 | 114446 | Each | 114446 |
| | ITR10021 | a) 11 KV Metering PTs (Class 0.2) | 1 | 19243 | | |
| | 0 | b) 11 KV Metering CTs (Class 0.2 S) | 3 | 76191 | | |
| | MHT10003 | c) HT Trivector Meter (Class 0.2 S) | 1 | 4589 | | |
| | OMT10049 | d) AMR Unit with modem for communication | 1 | 5994 | | |
| | BXS00004 | e) Special type HT meter box | 1 | 4515 | | |
| | CBP00002 | f) Coper control cable 4 x 2.5 sqmm for wiring | 60 | 3914 | | |
| 5 | | 11 KV 3 Core XLPE UG Cable | 1 | 51154 | Each | 51154 |
| | CBX10005 | a) 11 KV upto 3x95 sqmm XLPE UG Cable | 30 | 19841 | | |
| | SCB10037 | b) End termination kits suitable for 95 sq.mm XLPE UG Cable (outdoor type) | 2 | 19799 | | |
| | SCB10038 | c) End termination kits suitable for 95 sq.mm XLPE UG Cable (indoor type) | 2 | 11514 | | |
| 6 | | 11 KV LAS & Earthing | 1 | 2672 | Each | 2672 |
| | LAS00001 | a) 11 KV metal oxide 5 KA Las (line type) | 3 | 1037 | | |
| | EMT00020 | b) GI Earth pipe 40 mm (2.5 mts. Length) | 3 | 1635 | | |
| 7 | | Misc. items viz. link clips,wooden box, bolts & nuts, bends etc | LS | 605 | LS | 605 |
| | | Total | | 738399 | | 7,39,004 |
| | | 3% storage & handling charges on items (1) to (5) | | | | 22,152 |
| | | 3% Contingencies on Materials | | | | 22170 |
| | | Labour & Transport | | | | 73,840 |
| | | GST @ 18% on Labour & Transport | | | | 13291 |
| | | 1% Cess | | | | 8128 |
| | | 11% Estt. & Genl. Charges | | | | 81,290 |
| | | Total Cost in Rs. | | | | 9,59,876 |
| | | Or say : | | | | 9,59,880 |

70. COST DATA FOR 33KV HT SERVICE CONNECTION OF LOAD ABOVE 1500KVA ALONG WITH VCB AND DP STRUCTURE ARRANGEMENT

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|----------|----------|---|-----------|---------------|-------------|------------------|
| 1 | | DP Structure with 12.5Mts Spun Poles | 2 | 41532 | Each | 83064 |
| | PLS00008 | a) 12.5 mts Spun poles | 4 | 24540 | | |
| | FBR10013 | b) DP Structure Material Total Set | 2 | 15647 | | |
| | FBR00016 | c) MS Stay sets Complete with base plate | 4 | 801 | | |
| | FBR00004 | d) MS Stay Clamps | 4 | 543 | | |
| 2 | | Isolating Switches | 1 | 30055 | Each | 30055 |
| | ABS30004 | a) 33 KV,800A Horizontal AB Switch | 1 | 30055 | | |
| 3 | | 33KV Bay along with VCB | 1 | 714642 | Each | 714642 |
| 4 | | 33 KV Metering Equipment (HT Metering) | 1 | 168184 | Each | 168184 |
| | ITR30020 | a) 33 KV Metering PTs (Class 0.2) | 3 | 61178 | | |
| | 0 | b) 33 KV Metering CTs (Class 0.2 S) | 3 | 80079 | | |
| | MHT30061 | c) 33KV,110V HT Trivector Meter (Class 0.2 S) | 1 | 10547 | | |
| | OMT10049 | d) AMR Unit with modem for communication | 1 | 5994 | | |
| | BXS00004 | e) Special type HT meter box | 1 | 4515 | | |
| | CBP00002 | f) Coper control cable 4 x 2.5 sqmm for wiring | 90 | 5871 | | |
| 5 | | 33 KV 3 Core XLPE UG Cable | 1 | 167149 | Each | 167149 |
| | CBX30003 | a) 33 KV upto 3x185 sqmm XLPE UG Cable | 60 | 72701 | | |
| | SCB10028 | b) End termination kits suitable for 185 sq.mm XLPE UG Cable (outdoor type) | 2 | 47224 | | |
| | SCB10028 | c) End termination kits suitable for 185 sq.mm XLPE UG Cable (indoor type) | 2 | 47224 | | |
| 6 | | 33 KV LAS & Earthing | 1 | 8505 | Each | 8505 |
| | LAS00003 | a) 33 KV metal oxide 10 KA Las (line type) | 3 | 6870 | | |
| | EMT00020 | b) GI Earth pipe 40 mm (2.5 mts. Length) | 3 | 1635 | | |
| 7 | | Misc. items viz. link clips, wooden box, bolts & nuts, bends etc | LS | 605 | LS | 605 |
| | | Total | | 1171598 | | 11,72,203 |
| | | 3% storage & handling charges on items (1) to (5) | | | | 35,148 |
| | | 3% Contingencies on Materials | | | | 35166 |
| | | Labour & Transport | | | | 1,17,160 |
| | | GST @ 18% on Labour & Transport | | | | 21089 |
| | | 1% Cess | | | | 12894 |
| | | 11% Estt. & Genl. Charges | | | | 1,28,942 |
| | | Total Cost in Rs. | | | | 15,22,601 |
| | | Or say : | | | | 15,22,600 |

71. COST DATA FOR STREET LIGHT SERVICE CONNECTION (SINGLE PHASE)

| Sl. No. | SAP Code | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|----------------|-----------------|---|-------------|--------------------|-----------------|----------------------|
| 1 | MTE10019 | LT 1 phase Electronic Meter 5-30A | 1 | 639 | Each | 639 |
| 2 | | 1 phase 15A M.C.B./Fuse Unit | 1 | 1,604 | Each | 1604 |
| 3 | | Light sensitive switch | 1 | 400 | Each | 400 |
| 4 | | P.V.C. Cable 4 Sq.mm Single Core | 15 | 24 | Mts | 360 |
| 5 | | P.V.C. Pipe 25mm | 2 | 40 | Mts | 79 |
| 6 | | P.V.C. Bends 25mm | 2 | 6.0 | Each | 12 |
| 7 | BXS00024 | Moulded Distribution Box | 1 | 381 | Each | 381 |
| 8 | | Wooden, plugs, clamps, bolts,nuts link clips etc | L.S. | L.S. | L.S. | 50 |
| | | Total | | | | 3,524 |
| | | 3% storage & handling charges on items (1) to (5) | | 3474 | | 104 |
| | | 3% Contingencies on Materials | | | | 106 |
| | | Labour & Transport | | | | 705 |
| | | GST @ 18% on Labour & Transport | | | | 127 |
| | | 1% Cess | | | | 42 |
| | | 11% Estt. & Genl. Charges | | | | 388 |
| | | Total Cost in Rs. | | | | 4,996 |
| | | Or say : | | | | 5,000 |

**72. DETAILED ESTIMATE FOR ERECTION OF 1No. 33/11 KV SUBSTATION WITH (NT) X 5 MVA POWER TRANSFORMERS AND NF = 3
NO. 11 KV FEEDERS WITH 2MVAR CAPACITOR BANK**

| Sl. No | SAP Code | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|----------|---|------|-------------------------|------|--------------------------|
| 1(a) | | Lands and Rights | LS | As per local conditions | | 0.000 |
| (b) | | Plantation of Trees | LS | | LS | 0.061 |
| 2 | | Control Room and Consumer service centre (including furniture) | LS | | LS | 5.000 |
| 3 | | Station Auxillaries | | | | |
| a) | | Peripheral, Security Fencing, Approach road, retaining wall around switchward with gravel filling, gate and bore well | LS | | LS | 10.000 |
| b) | | Yard lighting | | | | 0.600 |
| c) | | Fire fighting Equipment | LS | | LS | 0.660 |
| d) | | P&T Phone and wireless set | LS | | LS | 1.500 |
| 4 | | Foundations for structures, PTRs & breakers | LS | | LS | 3.000 |
| 5 | | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 1.200 |
| 6 | | Control Cables | LS | | LS | 1.080 |
| 7 | MST00029 | Structural Steel | 15 | 0.481 | MT | 7.215 |
| 8 | | Transformers | | | | |
| a) | PTR00006 | 33/11KV, 5 MVA Power Transformer | 1 | 33.592 | Each | 33.592 |
| b) | DTA30017 | 11KV/ 415V 25KVA Stn. Transformer | 1 | 0.715 | Each | 0.715 |
| 9 | | Circuit Breakers | | | | |
| a) | BRK10002 | 20 KA 11 kv feeder VCB including Control panel and CTs (NF=3) | 3 | 2.782 | Each | 8.347 |
| b) | BRK10014 | 20 KA 11 kv LV VCB including Control panel and CTs | 1 | 2.929 | Each | 2.929 |
| 10 | | Control Circuit Panels | | | | |
| a) | | AC Supply Panel | 1 | 0.330 | Each | 0.330 |
| b) | | DC Aunnciation Panel | 1 | 0.330 | Each | 0.330 |
| 11 | | Instrument Transformers | | | | |
| a) | ITR30020 | 33KV P.T.s(1 phase) | 3 | 0.204 | Each | 0.612 |
| b) | ITR30028 | 33KV C.T.s | 3 | 0.234 | Each | 0.701 |
| c) | ITR10021 | 11kv P.T (3 Phase) | 1 | 0.192 | Each | 0.192 |
| 12 | | 11 & 33KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 4 | 0.074 | Each | 0.295 |
| b) | OMT10049 | AMR Unit | 4 | 0.060 | Each | 0.240 |
| c) | MHT10052 | 33KV HTTVR Meter | 1 | 0.074 | Each | 0.074 |
| d) | BXS00004 | HT Meter Box | 1 | 0.045 | Each | 0.045 |
| 13 | | Lightning Arrestors | | | | |
| a) | LAS00004 | 33KV 10KA station type | 6 | 0.036 | Each | 0.217 |
| b) | LAS00003 | 33KV 10KA Line type | 3 | 0.023 | Each | 0.069 |
| c) | LAS00001 | 11KV Line Type (NFX3) | 9 | 0.003 | Each | 0.031 |
| d) | LAS00002 | 11KV Station Type 10 KA | 3 | 0.019 | Each | 0.058 |
| 14 | | Isolating Switches | | | | |
| a) | ABS30004 | 33KV 800A double break centrally operated Horizontal AB Switch | 3 | 0.301 | Each | 0.902 |
| b) | ABS10015 | 11KV 800A double break centrally operated Horizontal AB Switch (NT X 1+1) | 2 | 0.272 | Each | 0.544 |
| c) | ABS10009 | 11KV 400A Horizontal AB Switch (NF X 2+2) | 8 | 0.124 | Each | 0.991 |
| d) | ABS10004 | 11KV 200A Horizontal AB Switch for station transformer | 1 | 0.074 | Each | 0.074 |
| e) | HGF30002 | 33KV Horn Gap Fuse Set (1XNT) | 1 | 0.094 | Each | 0.094 |
| 15 | CPT10027 | 2MVAR 11KV Capacitor Bank along with Associated Equipment | 1 | 11.621 | Each | 11.621 |
| 16 | BAT00027 | 24V, 40 AH Battery Set including Battery Charger | 4 | 0.233 | Each | 0.930 |
| 17 | | Earthing of PTR, VCBs, AB Swiches, Strucutres with 75x8mm GI Flat | | | LS | 1.815 |
| | | Sub Total | | 71.150 | | 96.065 |
| | | Erection and transport and commissioning charges on items 7 to 16 at 10% | | | | 7.115 |
| | | Storage & handling charges 7 to 14 at 3% | | | | 2.134 |
| | | Contingencies on items 7 to 14 at 3% | | | | 2.882 |
| | | T&P Charges on items No. 7 to 16 at 1% | | | | 0.711 |
| | | GST @ 18% on Labour & Transport | | | | 1.281 |
| | | Establishment and General Charges at 11% | | | | 10.567 |
| | | 1% Cess | | | | 1.032 |
| | | Total Rs. in Lakhs | | | | 121.788 |
| | | Or say (Rs.) | | | | 12179000 |

Note : NF = No. of 11 KV Feeders, The number of outgoing feeders at substation limited to the demand in MVA i.e. if substation demand is 5 MVA, the number of feeders should not exceed five.

**73. DETAILED ESTIMATE FOR ERECTION OF 1No. 33/11 KV SUBSTATION WITH (NT) X 5 MVA POWER TRANSFORMERS AND NF = 3
NO. 11 KV FEEDERS WITHOUT CAPACITOR BANK**

| Sl. No | SAP Code | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|----------|---|------|-------------------------|------|-----------------------|
| 1(a) | | Lands and Rights | LS | As per local conditions | | 0.000 |
| (b) | | Plantation of Trees | LS | | LS | 0.061 |
| 2 | | Control Room and Consumer service centre (including furniture) | LS | | LS | 5.000 |
| 3 | | Station Auxillaries | | | | |
| a) | | Peripheral, Security Fencing, Approach road, retaining wall around switchward with gravel filling, gate and bore well | LS | | LS | 10.000 |
| b) | | Yard lighting | | | | 0.600 |
| c) | | Fire fighting Equipment | LS | | LS | 0.660 |
| d) | | P&T Phone and wireless set | LS | | LS | 1.500 |
| 4 | | Foundations for structures, PTRs & breakers | LS | | LS | 3.000 |
| 5 | | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 1.200 |
| 6 | | Control Cables | LS | | LS | 1.080 |
| 7 | MST00029 | Structural Steel | 15 | 0.481 | MT | 7.215 |
| 8 | | Transformers | | | | |
| a) | PTR00006 | 33/11KV, 5 MVA Power Transformer | 1 | 33.592 | Each | 33.592 |
| b) | DTA30017 | 11KV/ 415V 25KVA Stn. Transformer | 1 | 0.715 | Each | 0.715 |
| 9 | | Circuit Breakers | | | | |
| a) | BRK10002 | 20 KA 11 kv feeder VCB including Control panel and CTs (NF=3) | 3 | 2.782 | Each | 8.347 |
| b) | BRK10014 | 20 KA 11 kv LV VCB including Control panel and CTs | 1 | 2.929 | Each | 2.929 |
| 10 | | Control Circuit Panels | | | | |
| a) | | AC Supply Panel | 1 | 0.330 | Each | 0.330 |
| b) | | DC Aunnciation Panel | 1 | 0.330 | Each | 0.330 |
| 11 | | Instrument Transformers | | | | |
| a) | ITR30020 | 33KV P.T.s(1 phase) | 3 | 0.204 | Each | 0.612 |
| b) | ITR30028 | 33KV C.T.s | 3 | 0.234 | Each | 0.701 |
| c) | ITR10021 | 11kv P.T (3 Phase) | 1 | 0.192 | Each | 0.192 |
| 12 | | 11 & 33KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 4 | 0.074 | Each | 0.295 |
| b) | OMT10049 | AMR Unit | 4 | 0.060 | Each | 0.240 |
| c) | MHT10052 | 33KV HTTVR Meter | 1 | 0.074 | Each | 0.074 |
| d) | BXS00004 | HT Meter Box | 1 | 0.045 | Each | 0.045 |
| 13 | | Lightning Arrestors | | | | |
| a) | LAS00004 | 33KV 10KA station type | 6 | 0.036 | Each | 0.217 |
| b) | LAS00003 | 33KV 10KA Line type | 3 | 0.023 | Each | 0.069 |
| c) | LAS00001 | 11KV Line Type (NFX3) | 9 | 0.003 | Each | 0.031 |
| d) | LAS00002 | 11KV Station Type 10 KA | 3 | 0.019 | Each | 0.058 |
| 14 | | Isolating Switches | | | | |
| a) | ABS30004 | 33KV 800A double break centrally operated Horizontal AB Switch | 3 | 0.301 | Each | 0.902 |
| b) | ABS10015 | 11KV 800A double break centrally operated Horizontal AB Switch (NT | 2 | 0.272 | Each | 0.544 |
| c) | ABS10009 | 11KV 400A Horizontal AB Switch (NF X 2+2) | 8 | 0.124 | Each | 0.991 |
| d) | ABS10004 | 11KV 200A Horizontal AB Switch for station transformer | 1 | 0.074 | Each | 0.074 |
| e) | HGF30002 | 33KV Horn Gap Fuse Set (1XNT) | 1 | 0.094 | Each | 0.094 |
| 15 | BAT00027 | 24V, 40 AH Battery Set including Battery Charger | 4 | 0.233 | Each | 0.930 |
| 16 | | Earthing of PTR, VCBs, AB Switches, Structures with 75x8mm GI Flat | | | LS | 1.815 |
| | | Sub Total | | 59.528 | | 84.444 |
| | | Erection and transport and commissioning charges on items 7 to 15 at 10% | | | | 5.953 |
| | | Storage & handling charges 7 to 14 at 3% | | | | 1.786 |
| | | Contingencies on items 7 to 14 at 3% | | | | 2.533 |
| | | T&P Charges on items No. 7 to 15 at 1% | | | | 0.595 |
| | | GST @ 18% on Labour & Transport | | | | 1.072 |
| | | Establishment and General Charges at 11% | | | | 9.289 |
| | | 1% Cess | | | | 0.904 |
| | | Total Rs. in Lakhs | | | | 106.576 |
| | | Or say (Rs.) | | | | 10658000 |

Note : NF = No. of 11 KV Feeders, The number of outgoing feeders at substation limited to the demand in MVA i.e. if substation demand is 5 MVA, the number of feeders should not exceed five.

74. DETAILED ESTIMATE FOR ERECTION OF 1No. 33/11 KV SUBSTATION WITH (NT) 2X 5 MVA POWER TRANSFORMERS AND NF = 4 NO. 11 KV FEEDERS WITH 2MVAR CAPACITOR BANK

| Sl. No | SAP Code | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|----------|---|------|-------------------------|------|-----------------------|
| 1(a) | | Lands and Rights | LS | As per local conditions | | 0.000 |
| (b) | | Plantation of Trees | LS | | LS | 0.061 |
| 2 | | Control Room and Consumer service centre (including furniture) | LS | | LS | 5.000 |
| 3 | | Station Auxillaries | | | | |
| a) | | Peripheral, Security Fencing, Approach road, retaining wall around switchward with gravel filling, gate and bore well | LS | | LS | 10.000 |
| b) | | Yard lighting | | | | 0.600 |
| c) | | Fire fighting Equipment | LS | | LS | 0.660 |
| d) | | P&T Phone and wireless set | LS | | LS | 1.500 |
| 4 | | Foundations for structures, PTRs & breakers | LS | | LS | 3.000 |
| 5 | | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 1.200 |
| 6 | | Control Cables | LS | | LS | 1.080 |
| 7 | MST00029 | Structural Steel | 19 | 0.481 | MT | 9.139 |
| 8 | | Transformers | | | | |
| a) | PTR00006 | 33/11KV, 5 MVA Power Transformer | 2 | 33.592 | Each | 67.184 |
| b) | DTA30017 | 11KV/ 415V 25KVA Stn. Transformer | 1 | 0.715 | Each | 0.715 |
| 9 | | Circuit Breakers | | | | |
| a) | BRK10002 | 20 KA 11 kv feeder VCB including Control panel and CTs (NF=4) | 4 | 2.782 | Each | 11.129 |
| b) | BRK10014 | 20 KA 11 kv LV VCB including Control panel and CTs | 2 | 2.929 | Each | 5.859 |
| c) | BRK30002 | 33KV Group Control VCBs with CTs & CR panels | 1 | 4.676 | Each | 4.676 |
| 10 | | Control Circuit Panels | | | | |
| a) | | AC Supply Panel | 1 | 0.330 | Each | 0.330 |
| b) | | DC Aunnciation Panel | 1 | 0.330 | Each | 0.330 |
| 11 | | Instrument Transformers | | | | |
| a) | ITR10021 | 11kv P.T (3 Phase) | 1 | 0.192 | Each | 0.192 |
| b) | ITR30020 | 33 KV PT (Single Phase) class 0.2 | 3 | 0.204 | Each | 0.612 |
| 12 | | 11 & 33KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 6 | 0.074 | Each | 0.443 |
| b) | OMT10049 | AMR Unit | 6 | 0.060 | Each | 0.360 |
| c) | MHT10052 | 33KV HTTVR Meter | 1 | 0.074 | Each | 0.074 |
| 13 | | Lightning Arrestors | | | | |
| a) | LAS00004 | 33KV 10KA station type | 6 | 0.036 | Each | 0.217 |
| b) | LAS00003 | 33KV 10KA Line type | 3 | 0.023 | Each | 0.069 |
| c) | LAS00001 | 11KV Line Type (NFX4) | 12 | 0.003 | Each | 0.041 |
| d) | LAS00002 | 11KV Station Type 10 KA | 3 | 0.019 | Each | 0.058 |
| 14 | | Isolating Switches | | | | |
| a) | ABS30004 | 33KV 800A double break centrally operated Horizontal AB Switch | 4 | 0.301 | Each | 1.202 |
| b) | ABS10015 | 11KV 800A double break centrally operated Horizontal AB Switch (NT) | 5 | 0.272 | Each | 1.359 |
| c) | ABS10009 | 11KV 400A Horizontal AB Switch (NF X 2+2) | 10 | 0.124 | Each | 1.239 |
| d) | ABS10004 | 11KV 200A Horizontal AB Switch for station transformer | 1 | 0.074 | Each | 0.074 |
| 15 | CPT10027 | 2MVAR 11KV Capacitor Bank along with Associated Equipment | 1 | 11.621 | Each | 11.621 |
| 16 | BAT00027 | 24V, 40 AH Battery Set including Battery Charger | 7 | 0.233 | Each | 1.628 |
| 17 | | Earthing of PTR, VCBs, AB Swicthes, Strucutres with 75x8mm GI Flat | | | LS | 1.815 |
| | | Sub Total | | 118.552 | | 143.468 |
| | | Erection and transport and commissioning charges on items 7 to 15 at 10% | | | | 11.855 |
| | | Storage & handling charges 7 to 14 at 3% | | | | 3.557 |
| | | Contingencies on items 7 to 14 at 3% | | | | 4.304 |
| | | T&P Charges on items No. 7 to 15 at 1% | | | | 1.186 |
| | | GST @ 18% on Labour & Transport | | | | 2.134 |
| | | Establishment and General Charges at 11% | | | | 15.781 |
| | | 1% Cess | | | | 1.553 |
| | | Total Rs. in Lakhs | | | | 183.837 |
| | | Or say (Rs.) | | | | 18384000 |

Note : NF = No. of 11 KV Feeders, The number of outgoing feeders at substation limited to the demand in MVA i.e. if substation demand is 5 MVA, the number of feeders should not exceed five.

**75. DETAILED ESTIMATE FOR ERECTION OF 1No. 33/11 KV SUBSTATION WITH (NT) 2X 5 MVA POWER TRANSFORMERS AND NF = 4
NO. 11 KV FEEDERS WITHOUT CAPACITOR BANK**

| Sl. No | SAP Code | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|----------|---|------------------|---------------------------|------|--------------------------|
| 1(a) | | Lands and Rights | LS | As per local conditions | | 0.000 |
| (b) | | Plantation of Trees | LS | | LS | 0.061 |
| 2 | | Control Room and Consumer service centre (including furniture) | LS | | LS | 5.000 |
| 3 | | Station Auxillaries | | | | |
| a) | | Peripheral, Security Fencing, Approach road, retaining wall around switchward with gravel filling, gate and bore well | LS | | LS | 10.000 |
| b) | | Yard lighting | | | | 0.600 |
| c) | | Fire fighting Equipment | LS | | LS | 0.660 |
| d) | | P&T Phone and wireless set | LS | | LS | 1.500 |
| 4 | | Foundations for structures, PTRs & breakers | LS | | LS | 3.000 |
| 5 | | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 1.200 |
| 6 | | Control Cables | LS | | LS | 1.080 |
| 7 | MST00029 | Structural Steel | 19 | 0.481 | MT | 9.139 |
| 8 | | Transformers | | | | |
| a) | PTR00006 | 33/11KV, 5 MVA Power Transformer | 2 | 33.592 | Each | 67.184 |
| b) | DTA30017 | 11KV/ 415V 25KVA Stn. Transformer | 1 | 0.715 | Each | 0.715 |
| 9 | | Circuit Breakers | | | | |
| a) | BRK10002 | 20 KA 11 kv feeder VCB including Control panel and CTs (NF=4) | 4 | 2.782 | Each | 11.129 |
| b) | BRK10014 | 20 KA 11 kv LV VCB including Control panel and CTs | 2 | 2.929 | Each | 5.859 |
| c) | BRK30002 | 33KV Group Control VCBs with CTs & CR panels | 1 | 4.676 | Each | 4.676 |
| 10 | | Control Circuit Panels | | | | |
| a) | | AC Supply Panel | 1 | 0.330 | Each | 0.330 |
| b) | | DC Aunnciation Panel | 1 | 0.330 | Each | 0.330 |
| 11 | | Instrument Transformers | | | | |
| a) | ITR10021 | 11kv P.T (3 Phase) | 1 | 0.192 | Each | 0.192 |
| b) | ITR30020 | 33 KV PT (Single Phase) class 0.2 | 3 | 0.204 | Each | 0.612 |
| 12 | | 11 & 33KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 6 | 0.074 | Each | 0.443 |
| b) | OMT10049 | AMR Unit | 6 | 0.060 | Each | 0.360 |
| c) | MHT10052 | 33KV HTTVR Meter | 1 | 0.074 | Each | 0.074 |
| 13 | | Lightning Arrestors | | | | |
| a) | LAS00004 | 33KV 10KA station type | 6 | 0.036 | Each | 0.217 |
| b) | LAS00003 | 33KV 10KA Line type | 3 | 0.023 | Each | 0.069 |
| c) | LAS00001 | 11KV Line Type (NFX4) | 12 | 0.003 | Each | 0.041 |
| d) | LAS00002 | 11KV Station Type 10 KA | 3 | 0.019 | Each | 0.058 |
| 14 | | Isolating Switches | | | | |
| a) | ABS30004 | 33KV 800A double break centrally operated Horizontal AB Switch | 4 | 0.301 | Each | 1.202 |
| b) | ABS10015 | 11KV 800A double break centrally operated Horizontal AB Switch (NT | 5 | 0.272 | Each | 1.359 |
| c) | ABS10009 | 11KV 400A Horizontal AB Switch (NF X 2+2) | 10 | 0.124 | Each | 1.239 |
| d) | ABS10004 | 11KV 200A Horizontal AB Switch for station transformer | 1 | 0.074 | Each | 0.074 |
| 15 | BAT00027 | 24V, 40 AH Battery Set including Battery Charger | 7 | 0.233 | Each | 1.628 |
| 16 | | Earthing of PTR, VCBs, AB Swicthes, Strucutres with 75x8mm GI Flat | | | LS | 1.815 |
| | | | Sub Total | 106.931 | | 131.846 |
| | | Erection and transport and commissioning charges on items 7 to 14 at 10% | | | | 10.693 |
| | | Storage & handling charges 7 to 14 at 3% | | | | 3.208 |
| | | Contingencies on items 7 to 14 at 3% | | | | 3.955 |
| | | T&P Charges on items No. 7 to 14 at 1% | | | | 1.069 |
| | | GST @ 18% on Labour & Transport | | | | 1.925 |
| | | Establishment and General Charges at 11% | | | | 14.503 |
| | | 1% Cess | | | | 1.425 |
| | | | | Total Rs. in Lakhs | | 168.625 |
| | | | | Or say (Rs.) | | 16863000 |

Note : NF = No. of 11 KV Feeders, The number of outgoing feeders at substation limited to the demand in MVA i.e. if substation demand is 5 MVA, the number of feeders should not exceed five.

76. Cost Data for erection of 33/11KV Indoor Substation with 2 x 5 MVA Power Transformer with 4 Feeders

| Sl. No. | SAP Code | Particulars | Quantity | Rate (Rs. in lakhs) | Per | Amount in Lakhs |
|---------|----------|---|----------|-------------------------|----------------|-----------------|
| 1 a) | | Land and rights | LS | As per local conditions | LS | 0 |
| b) | | Plantation of trees | LS | LS | LS | 0.061 |
| 2 | | Construction of control Room & Indoor SS Building | LS | LS | LS | 55.000 |
| 3 | | <u>STATION AUXILIARIES</u> | | | | |
| a) | | Yard Lighting | LS | LS | LS | 0.600 |
| b) | | Telephone (P&T) and wireless | LS | LS | LS | 1.500 |
| c) | | Fire fighting equipment | LS | LS | LS | 0.660 |
| 4 | | Control cables and cable trays | LS | LS | LS | 1.080 |
| 5 | | Transformers: | | | | |
| a) | PTR00006 | 33/11KV, 5.0MVA Power Transformer | 2 | 33.592 | Each | 67.184 |
| b) | DTA30017 | 11KV/415V, 25KVA Station Transformer | 1 | 0.715 | Each | 0.715 |
| 6 | | INDOOR SWITCH GEAR & CONTROL | | | | |
| a) | | 33 KV, 25KA, 1250A vacuum type indoor switchgear (incoming cubicles - 2 Nos. & Transformer cubicle - 2Nos and Bus Coupler-1No.) | 5 | 10.280 | Each | 51.400 |
| b) | | 11 KV, 25 KVA, 1250A, vacuum type indoor switchgear consisting of the following equipment (1250 A Transformer Control Cubicles - 2 No 1250 A feeder Cubicles - 4 Nos. Bus Coupler-1No and Station DTR- 1No.) | 8 | 5.000 | Each | 40.000 |
| 7 | | 11 & 33KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 6 | 0.074 | Each | 0.443 |
| b) | OMT10049 | AMR Unit | 6 | 0.060 | Each | 0.360 |
| c) | MHT10052 | 33KV HTTVR Meter | 4 | 0.074 | Each | 0.295 |
| 8 | | A.C Panel | 1 | 0.230 | Each | 0.230 |
| 9 | BAT00020 | 220 V, 80 Ah Battery Set with Trickle charger | 1 | 2.346 | Each | 2.346 |
| 10 | | Cables for connecting PTRs, breakers and take off arrangements | | | | |
| a) | CBX30001 | 33 KV 3x400 Sq.mm XLPE Cable | 0.2 | 19.165 | KM | 3.833 |
| b) | SCB10062 | 33 KV 3x400 SQmm HS end termination jointing kit | 8 | 0.311 | Each | 2.491 |
| c) | CBX10008 | 11 KV 3x300 Sq.mm XLPE Cable | 0.35 | 12.347 | KM | 4.321 |
| d) | SCB10057 | 11 KV 3x300 SQmm HS end termination jointing kit | 14 | 0.134 | Each | 1.876 |
| 11 | | Earthing Arrangements | | | | |
| a) | MST00015 | MS Flat 75 x 8 MM for providing complete Earth Mat | 2 | 0.515 | MT | 1.030 |
| b) | MST00014 | MS Flat 50 x 6 MM for earthing the equipment | 1.5 | 0.515 | MT | 0.773 |
| c) | MST00024 | Rail Pole earthing with Four nos rail poles | 4 | 0.468 | Each | 1.874 |
| d) | EMT00006 | Earthing Electrodes and CI Pipe | 12 | 0.027 | each | 0.325 |
| 12 | | Supply and fixing of steel supports (chequered plates, MS flat, angle and channels for closing the cable duct backside of breakers etc.) including drilling, welding, grouting etc holes and painting with two coats synthetic enamel paint over a coat of red oxide | LS | LS | LS | 5.000 |
| | | Sub Total in Lakhs | | | 179.496 | 243.40 |
| | | 3% storage & handling charges 5 to 10 | | | | 5.38 |
| | | 3% Contingencies on item 5 to 10 | | | | 7.30 |
| | | 10% Transport, Erection & commissioning charges on item 5 to 10 | | | | 18.45 |
| | | GST @ 18% on Labour & Transport | | | | 3.321 |
| | | 1% T&P Charges on item 5 to 10 | | | | 1.84 |
| | | 11% Estt. & Genl. Charges | | | | 29.81 |
| | | 1% Cess | | | | 2.618 |
| | | Grand Total Rs. in Lakhs | | | | 304.12 |
| | | Or say (Rs.) | | | | 30412000 |

77. Cost Data for erection of 33/11KV Indoor Substation with 1 x 5 MVA Power Transformer with 3 Feeders

| Sl. No. | SAP Code | Particulars | Quantity | Rate (Rs. in lakhs) | Per | Amount in Lakhs |
|---------|----------|---|----------|-------------------------|----------------|-----------------|
| 1 a) | | Land and rights | LS | As per local conditions | LS | 0 |
| b) | | Plantation of trees | LS | LS | LS | 0.061 |
| 2 | | Construction of control Room & Indoor SS Building | LS | LS | LS | 55.000 |
| 3 | | <u>STATION AUXULLARIES</u> | | | | |
| a) | | Yard Lighting | LS | LS | LS | 0.600 |
| b) | | Telephone (P&T) and wireless | LS | LS | LS | 1.500 |
| c) | | Fire fighting equipment | LS | LS | LS | 0.660 |
| 4 | | Control cables and cable trays | LS | LS | LS | 1.080 |
| 5 | | Transformers: | | | | |
| a) | PTR00006 | 33/11KV, 5.0MVA Power Transformer | 1 | 33.592 | Each | 33.592 |
| b) | DTA30017 | 11KV/415V, 25KVA Station Transformer | 1 | 0.715 | Each | 0.715 |
| 6 | | INDOOR SWITCH GEAR & CONTROL | | | | |
| a) | | 33 KV, 25KA, 1250A vacuum type indoor switchgear (incoming cubicles - 2 Nos. & Transformer cubicle - 1Nos and Bus Coupler-1No.) | 4 | 10.280 | Each | 41.120 |
| b) | | 11 KV, 25 KVA, 1250A, vacuum type indoor switchgear consisting of the following equipment (1250 A Transformer Control Cubicles - 1 No 1250 A feeder Cubicles - 3 Nos. Bus Coupler-1No and Station DTR- 1No.) | 6 | 5.000 | Each | 30.000 |
| 7 | | 11 & 33KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 4 | 0.074 | Each | 0.295 |
| b) | OMT10049 | AMR Unit | 4 | 0.060 | Each | 0.240 |
| c) | MHT10052 | 33KV HTTVR Meter | 3 | 0.074 | Each | 0.221 |
| 8 | | A.C Panel | 1 | 0.230 | Each | 0.230 |
| 9 | BAT00020 | 220 V, 80 Ah Battery Set with Trickle charger | 1 | 2.346 | Each | 2.346 |
| 10 | | Cables for connecting PTRs, breakers and take of | | | | |
| a) | CBX30001 | 33 KV 3x400 Sq.mm XLPE Cable | 0.15 | 19.165 | KM | 2.875 |
| b) | SCB10062 | 33 KV 3x400 SQmm HS end termination jointing kit | 6 | 0.311 | Each | 1.869 |
| c) | CBX10008 | 11 KV 3x300 Sq.mm XLPE Cable | 0.25 | 12.347 | KM | 3.087 |
| d) | SCB10057 | 11 KV 3x300 SQmm HS end termination jointing kit | 10 | 0.134 | Each | 1.340 |
| 11 | | Earthing Arrangements | | | | |
| a) | MST00015 | MS Flat 75 x 8 MM for providing complete Earth Mat | 2 | 0.515 | MT | 1.030 |
| b) | MST00014 | MS Flat 50 x 6 MM for earthing the equipment | 1.5 | 0.515 | MT | 0.773 |
| c) | MST00024 | Rail Pole earthing with Four nos rail poles | 4 | 0.468 | Each | 1.874 |
| d) | EMT00006 | Earthing Electrodes and CI Pipe | 12 | 0.027 | each | 0.325 |
| 12 | | Supply and fixing of steel supports (chequered plates, MS flat, angle and channels for closing the cable duct backside of breakers etc.) including drilling, welding, grouting etc holes and painting with two coats synthetic enamel paint over a coat of red oxide | LS | LS | LS | 5.000 |
| | | Sub Total in Lakhs | | | 121.931 | 185.83 |
| | | 3% storage & handling charges 5 to 10 | | | | 3.66 |
| | | 3% Contingencies on item 5 to 10 | | | | 5.57 |
| | | 10% Transport, Erection & commissioning charges on item 5 to 10 | | | | 12.69 |
| | | GST @ 18% on Labour & Transport | | | | 2.285 |
| | | 1% T&P Charges on item 5 to 10 | | | | 1.27 |
| | | 11% Estt. & Genl. Charges | | | | 22.59 |
| | | 1% Cess | | | | 1.985 |
| | | Grand Total Rs. in Lakhs | | | | 230.24 |
| | | Or say (Rs.) | | | | 23024000 |

78. Cost Data for erection of 33/11KV Indoor Substation(GIS TYPE) with 2 x 8 MVA Power Transformer with 6 Feeders

| Sl. No. | SAP Code | Particulars | Quantity | Rate (Rs. in lakhs) | Per | Amount in Lakhs |
|---------|----------|---|----------|---|----------------|-----------------|
| 1a) | | Land and rights | LS | As per local conditions | LS | 0 |
| 1b) | | Plantation of trees | LS | LS | LS | 0.061 |
| 2 | | Construction of control Room & Indoor SS Building | LS | LS | LS | 55.000 |
| 3 | | <u>STATION AUXILLARIES</u> | | | | |
| a) | | Yard Lighting | LS | LS | LS | 0.600 |
| b) | | Telephone (P&T) and wireless | LS | LS | LS | 1.500 |
| c) | | Fire fighting equipment | LS | LS | LS | 0.660 |
| 4 | | Control cables and cable trays | LS | LS | LS | 1.080 |
| 5 | | Transformers: | | | | |
| a) | PTR00008 | 33/11KV, 8.0MVA Power Transformer | 2 | 44.444 | Each | 88.888 |
| b) | DTA30017 | 11KV/415V, 25KVA Station Transformer | 1 | 0.715 | Each | 0.715 |
| 6 | | INDOOR SWITCH GEAR & CONTROL | | | | |
| a) | | 33 KV, 25KA, 1250A GIS type indoor switchgear (incoming cubicles - 2 Nos. & Transformer cubicle - 2Nos and Bus Coupler-1No.) | 5 | 36.630 | Each | 183.150 |
| b) | | 11 KV, 25 KVA, 1250A, vacuum type indoor switchgear consisting of the following equipment 1250 A Transformer Control Cubicles - 2 No 1250 A feeder Cubicles - 4 Nos. Bus Coupler-1No and Station DTR-1No. | 8 | 5.000 | Each | 40.000 |
| 7 | | 11 & 33KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 6 | 0.074 | Each | 0.443 |
| b) | OMT10049 | AMR Unit | 6 | 0.060 | Each | 0.360 |
| c) | MHT10052 | 33KV HTTVR Meter | 4 | 0.074 | Each | 0.295 |
| 8 | | A.C Panel | 1 | 0.230 | Each | 0.230 |
| 9 | BAT00020 | 220 V, 80 Ah Battery Set with Trickle charger | 1 | 2.346 | Each | 2.346 |
| 10 | | Cables for connecting PTRs, breakers and take off arrangements | | | | |
| a) | CBX30001 | 33 KV 3x400 Sq.mm XLPE Cable | 0.35 | 19.165 | KM | 6.708 |
| b) | SCB10062 | 33 KV 3x400 SQmm HS end termination jointing kit | 8 | 0.311 | Each | 2.491 |
| c) | CBX10008 | 11 KV 3x300 Sq.mm XLPE Cable | 0.6 | 12.347 | KM | 7.408 |
| d) | SCB10057 | 11 KV 3x300 SQmm HS end termination jointing kit | 14 | 0.134 | Each | 1.876 |
| 11 | | Earthing Arrangements | | | | |
| a) | MST00015 | MS Flat 75 x 8 MM for providing complete Earth Mat | 2 | 0.515 | MT | 1.030 |
| b) | MST00014 | MS Flat 50 x 6 MM for earthing the equipment | 1.5 | 0.515 | MT | 0.773 |
| c) | MST00024 | Rail Pole earthing with Four nos rail poles | 4 | 0.468 | Each | 1.874 |
| d) | EMT00006 | Earthing Electrodes and CI Pipe | 12 | 0.027 | each | 0.325 |
| 12 | | Supply and fixing of steel supports (chequered plates, MS flat, angle and channels for closing the cable duct backside of breakers etc.) including drilling, welding, grouting etc holes and painting with two coats synthetic enamel paint over a coat of red oxide | LS | LS | LS | 5.000 |
| | | | | Sub Total in Lakhs | 338.911 | 402.81 |
| | | | | 3% storage & handling charges 5 to 10 | | 10.17 |
| | | | | 3% Contingencies on item 5 to 10 | | 12.08 |
| | | | | 10% Transport, Erection & commissioning charges on item 5 to 10 | | 34.39 |
| | | | | GST @ 18% on Labour & Transport | | 6.190 |
| | | | | 1% T&P Charges on item 5 to 10 | | 3.44 |
| | | | | 11% Estt. & Genl. Charges | | 49.80 |
| | | | | 1% Cess | | 4.372 |
| | | | | Grand Total Rs. in Lakhs | | 508.72 |
| | | | | Or say (Rs.) | | 50872000 |

79. COST DATA FOR ERECTION OF 5MVA ADDITIONAL PTR

| Sl. No | SAP Code | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|----------|---|------|------------------------|------|--------------------------|
| 1 | | Foundations for structures, PTRs & breakers | LS | | LS | 0.750 |
| 2 | | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 0.035 |
| 3 | | Control Cables | LS | | LS | 0.010 |
| 4 | MST00029 | Structural Steel | 4 | 0.481 | MT | 1.924 |
| 5 | | Transformers | | | | |
| a) | PTR00006 | 33/11KV, 5 MVA Power Transformer | 1 | 33.592 | Each | 33.592 |
| 6 | | Circuit Breakers | | | | |
| a) | BRK10014 | 20 KA 11 kv LV VCB including Control panel and CTs | 1 | 2.929 | Each | 2.929 |
| b) | BRK30002 | 33KV Feeder VCBs with CTs & CR panels | 1 | 4.676 | Each | 4.676 |
| 7 | | 11 & 33KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 1 | 0.074 | Each | 0.074 |
| b) | OMT10049 | AMR Unit | 1 | 0.060 | Each | 0.060 |
| c) | MHT10052 | 33KV HTTVR Meter | 1 | 0.074 | Each | 0.074 |
| 8 | | Control Circuit Panels | | | | |
| a) | | AC Supply Panel | 1 | 0.330 | Each | 0.330 |
| b) | | DC Annunciation Panel | 1 | 0.330 | Each | 0.330 |
| 9 | | Isolating Switches | | | | |
| a) | ABS30004 | 33KV 800A double break centrally operated Horizontal AB Switch | 2 | 0.301 | Each | 0.601 |
| b) | ABS10015 | 11KV 800A double break centrally operated Horizontal AB Switch (NT X 1+1) | 1 | 0.272 | Each | 0.272 |
| 10 | BAT00027 | 24V, 40 AH Battery Set including Battery Charger | 1 | 0.233 | Each | 0.233 |
| 11 | | Earthing of PTR, VCBs, AB Switches, Structures with 75x8mm GI Flat | | | LS | 0.091 |
| | | Sub Total | | 45.094 | | 45.980 |
| | | Erection and transport and commissioning charges on items 4 to 9 at 10% | | | | 4.509 |
| | | Storage & handling charges 4 to 9 at 3% | | | | 1.353 |
| | | Contingencies at 3% | | | | 1.379 |
| | | GST @ 18% on Labour & Transport | | | | 0.812 |
| | | T&P Charges on items No. 4 to 9 at 1% | | | | 0.451 |
| | | Establishment and General Charges at 11% | | | | 5.058 |
| | | 1% Cess | | | | 0.505 |
| | | Total Rs. in Lakhs | | | | 60.047 |
| | | Or say (Rs.) | | | | 6005000 |

80. COST DATA FOR ERECTION OF 8MVA ADDITIONAL PTR

| Sl. No | SAP Code | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|----------|---|------|------------------------|------|--------------------------|
| 1 | | Foundations for structures, PTRs & breakers | LS | | LS | 0.750 |
| 2 | | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 0.035 |
| 3 | | Control Cables | LS | | LS | 0.020 |
| 4 | MST00029 | Structural Steel | 4 | 0.481 | MT | 1.924 |
| 5 | | Transformers | | | | |
| a) | PTR00008 | 33/11KV, 8 MVA Power Transformer | 1 | 44.444 | Each | 44.444 |
| 6 | | Circuit Breakers | | | | |
| a) | BRK30002 | 33 KV VCB with CRPs & CTs ratio (400-200-100/1-1-1A) | 2 | 4.676 | Each | 9.352 |
| b) | BRK10014 | 11 KV VCB with CTs & Panels (LV Control) with differential pro | 2 | 2.929 | Each | 5.859 |
| 7 | | 11 & 33KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 2 | 0.074 | Each | 0.148 |
| b) | OMT10049 | AMR Unit | 2 | 0.060 | Each | 0.120 |
| c) | MHT10052 | 33KV HTTVR Meter | 2 | 0.074 | Each | 0.148 |
| 8 | | Control Circuit Panels | | | | |
| a) | | AC Supply Panel | 1 | 0.330 | Each | 0.330 |
| b) | | DC Annunciation Panel | 1 | 0.330 | Each | 0.330 |
| 9 | | Isolating Switches | | | | |
| a) | ABS30004 | 33KV 800A double break centrally operated Horizontal AB Switch | 2 | 0.301 | Each | 0.601 |
| b) | ABS10015 | 11KV 800A double break centrally operated Horizontal AB Switch | 2 | 0.272 | Each | 0.544 |
| 10 | BAT00027 | 24V, 40 AH Battery Set including Battery Charger | 2 | 0.233 | Each | 0.465 |
| 11 | | Earthing of PTR, VCBs, AB Swiches, Strucutres with 75x8mm GI Flat | | | LS | 0.091 |
| | | Sub Total | | 64.263 | | 65.159 |
| | | Erection and transport and commissioning charges on items 4 to 9 at 10% | | | | 6.426 |
| | | Storage & handling charges 4 to 9 at 3% | | | | 1.928 |
| | | Contingencies at 3% | | | | 1.955 |
| | | GST @ 18% on Labour & Transport | | | | 1.157 |
| | | T&P Charges on items No. 4 to 9 at 1% | | | | 0.643 |
| | | Establishment and General Charges at 11% | | | | 7.167 |
| | | 1% Cess | | | | 0.716 |
| | | Total Rs. in Lakhs | | | | 85.151 |
| | | Or say (Rs.) | | | | 8515000 |

81. COST DATA FOR ENHANCEMENT OF PTR 3.15MVA TO 5MVA

| Sl. No | SAP Code | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|----------|---|------|---------------------|------|-----------------------|
| 1 | | Foundations for structures, PTRs & breakers | LS | | LS | 0.750 |
| 2 | | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 0.035 |
| 3 | | Control Cables | LS | | LS | 0.010 |
| 4 | MST00029 | Structural Steel | 4 | 0.481 | MT | 1.924 |
| 5 | | Transformers | | | | |
| a) | PTR00006 | 33/11KV, 5 MVA Power Transformer | 1 | 33.592 | Each | 33.592 |
| 6 | | Circuit Breakers | | | | |
| a) | BRK10014 | 20 KA 11 kv LV VCB including Control panel and CTs | 1 | 2.929 | Each | 2.929 |
| 7 | | 11 KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 1 | 0.074 | Each | 0.074 |
| b) | OMT10049 | AMR Unit | 1 | 0.060 | Each | 0.060 |
| 8 | | Control Circuit Panels | | | | |
| a) | | AC Supply Panel | 1 | 0.330 | Each | 0.330 |
| b) | | DC Annunciation Panel | 1 | 0.330 | Each | 0.330 |
| 9 | | Isolating Switches | | | | |
| a) | ABS30004 | 33KV 800A double break centrally operated Horizontal AB Sw | 1 | 0.301 | Each | 0.301 |
| b) | ABS10015 | 11KV 800A double break centrally operated Horizontal AB Sw | 1 | 0.272 | Each | 0.272 |
| 10 | BAT00027 | 24V, 40 AH Battery Set including Battery Charger | 1 | 0.233 | Each | 0.233 |
| 11 | | Earthing of PTR, VCBs, AB Swiches, Strucutres with 75x8mm GI Flat | | | LS | 0.091 |
| | | Sub Total | | 40.044 | | 40.930 |
| | | Erection and transport and commissioning charges on items 4 to 9 at 10% | | | | 4.005 |
| | | storage & handling charges 4 to 9 at 3% | | | | 1.201 |
| | | Contingencies at 3% | | | | 1.228 |
| | | GST @ 18% on Labour & Transport | | | | 0.721 |
| | | T&P Charges on items No. 4 to 9 at 1% | | | | 0.401 |
| | | Establishment and General Charges at 11% | | | | 4.502 |
| | | 1% Cess | | | | 0.449 |
| | | Total Rs. in Lakhs | | | | 53.438 |
| | | Or say (Rs.) | | | | 5344000 |
| | | Less Credits (Removed 3.15MVA PTR) in Rs. | | | | 500000 |
| | | Net Estimate Cost in Rs. | | | | 4844000 |
| | | Or say (Rs.) | | | | 4844000 |

82. COST DATA FOR ENHANCEMENT OF PTR 5MVA TO 8MVA

| Sl. No | SAP Code | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|----------|---|------|---------------------|------|-----------------------|
| 1 | | Foundations for structures, PTRs & breakers | LS | | LS | 0.750 |
| 2 | | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 0.035 |
| 3 | | Control Cables | LS | | LS | 0.020 |
| 4 | MST00029 | Structural Steel | 4 | 0.481 | MT | 1.924 |
| 5 | | Transformers | | | | |
| a) | PTR00008 | 33/11KV, 8 MVA Power Transformer | 1 | 44.444 | Each | 44.444 |
| 6 | | Circuit Breakers | | | | |
| a) | BRK30002 | 33 KV VCB with CRPs & CTs ratio (400-200-100/1-1-1A) | 1 | 4.676 | Each | 4.676 |
| b) | BRK10014 | 11 KV VCB with CTs & Panels (LV Control) with differential protection | 1 | 2.929 | Each | 2.929 |
| 7 | | 11 & 33KV Metering | | | | |
| a) | MHT10052 | 11 KV HT TVR Meter | 1 | 0.074 | Each | 0.074 |
| b) | OMT10049 | AMR Unit | 1 | 0.060 | Each | 0.060 |
| c) | MHT10052 | 33KV HTTVR Meter | 1 | 0.074 | Each | 0.074 |
| 8 | | Control Circuit Panels | | | | |
| a) | | AC Supply Panel | 1 | 0.330 | Each | 0.330 |
| b) | | DC Annunciation Panel | 1 | 0.330 | Each | 0.330 |
| 9 | | Isolating Switches | | | | |
| a) | ABS30004 | 33KV 800A double break centrally operated Horizontal AB Switch | 2 | 0.301 | Each | 0.601 |
| b) | ABS10015 | 11KV 800A double break centrally operated Horizontal AB Switch (NT X 1+1) | 2 | 0.272 | Each | 0.544 |
| 10 | BAT00027 | 24V, 40 AH Battery Set including Battery Charger | 2 | 0.233 | Each | 0.465 |
| 11 | | Earthing of PTR, VCBs, AB Swiches, Structures with 75x8mm GI Flat | | | LS | 0.091 |
| | | Sub Total | | 56.451 | | 57.346 |
| | | Erection and transport and commissioning charges on items 4 to 9 at 10% | | | | 5.645 |
| | | storage & handling charges 4 to 9 at 3% | | | | 1.694 |
| | | Contingencies at 3% | | | | 1.720 |
| | | GST @ 18% on Labour & Transport | | | | 1.016 |
| | | T&P Charges on items No. 4 to 9 at 1% | | | | 0.565 |
| | | Establishment and General Charges at 11% | | | | 6.308 |
| | | 1% Cess | | | | 0.630 |
| | | Total Rs. in Lakhs | | | | 74.924 |
| | | Or say (Rs.) | | | | 7492000 |
| | | Less Credits (Removed 5.0MVA PTR) in Rs. | | | | 700000 |
| | | Net Estimate Cost in Rs. | | | | 6792000 |
| | | Or say (Rs.) | | | | 6792000 |

83. Cost data for erection of 11KV Bay extension along with VCB in existing 33/11KV Sub-Station

| Sl. No. | SAP Code | Particulars | Qty. | Rate | Unit | Amount in Rs. |
|---------|----------|--|------|---------------|------|---------------|
| 1 | MST00029 | 150 x 150Sq.mm H Type beam of 9.0mts length (2Nos RS Joists) | 0.8 | 48101 | MT | 39924 |
| 2 | MST00012 | 100 x 50mm MS Channel | 0.5 | 44191 | MT | 22096 |
| 3 | MST00015 | MS Flat 75 x 8mm | 0.3 | 51507 | MT | 15452 |
| 4 | MST00002 | MS Angle 65x65x6mm | 0.1 | 44191 | MT | 4419 |
| 5 | ABS10009 | AB Switch 400Amps conventional type | 2 | 12389 | Each | 24778 |
| 6 | CDR00010 | 200Sq.mm ACSR Conductor (Panther conductor) | 0.05 | 143717 | Km | 7186 |
| 7 | BRK10002 | 11 kv Feeder VCB with CTs & Control panel | 1 | 278236 | Each | 278236 |
| 8 | LAS00002 | 11KV Lightning Arrestors station type | 3 | 1947 | Each | 5840 |
| 9 | INS10008 | 11KV post type insulators | 12 | 287 | Each | 3440 |
| 10 | BAT00027 | 24V 40AH Battery with trickle charger | 1 | 23253 | Each | 23253 |
| 11 | INS10003 | 11KV Polymer insulators | 6 | 287 | Each | 1724 |
| 12 | HWR00002 | 11KV Metal Parts | 6 | 82 | Each | 491 |
| 13 | CBP00002 | LT PVC CU Control cable 4 core 2.5 sqmm | 50 | 65 | M | 3261 |
| 14 | CBP00006 | LT PVC CU Control cable 10 core 2.5 sqmm | 50 | 162 | M | 8088 |
| 15 | EMT00006 | CI Earth pipe | 3 | 2707 | M | 8121 |
| 16 | | MS Bolts &nuts 5/8"x4" | 50 | 81 | KG | 4050 |
| 17 | | Plinth for VCB | | | | 12000 |
| 18 | | Earthing arrangements (20mts length with 75 x 8 MS flat) | LS | | | 6600 |
| 19 | | Pad clamps, bolt & nuts & Miscellaneous items | LS | | | 1920 |
| | | Sub Total | | 468958 | | 470878 |
| | | Erection and transport and commissioning charges on items 1 to 16 at 10% | | | | 46896 |
| | | Storage & handling charges 1 to 16 at 3% | | | | 14069 |
| | | Contingencies at 3% | | | | 14126 |
| | | GST @ 18% on Labour & Transport | | | | 8441 |
| | | T&P Charges on items No. 1 to 16 at 1% | | | | 4690 |
| | | Establishment and General Charges at 11% | | | | 51797 |
| | | 1% Cess | | | | 5178 |
| | | Total Cost in Rs. | | | | 616075 |
| | | Or say (Rs.) | | | | 616070 |

84. Cost data for erection of 33KV Bay extension in existing 33/11KV Sub-Station

| Sl. No. | SAP Code | Particulars | Qty. | Rate | Per. | Amount in Rs. |
|---------|----------|--|------|---------------|------|---------------|
| 1 | MST00029 | 150 x 150Sq.mm H Type beam of 9.0mts length (2Nos RS Joists) | 0.8 | 48101 | MT | 39924 |
| 2 | MST00012 | 100 x 50mm MS Channel | 0.5 | 44191 | MT | 22096 |
| 3 | MST00002 | MS Angle 65x65x6mm | 0.1 | 44191 | MT | 4419 |
| 4 | MST00002 | MS Angle 65x65x6mm | 0.1 | 44191 | MT | 4419 |
| 5 | ABS30004 | 33KV, 800Amps AB Switch conventional type | 2 | 30055 | Each | 60109 |
| 6 | CDR00010 | 200Sq.mm ACSR Conductor (Panther conductor) | 0.02 | 143717 | Km | 2874 |
| 7 | BRK30005 | 33kv Feeder VCB with CTs & Control panel | 1 | 483431 | Each | 483431 |
| 8 | LAS00004 | 33KV Lightning Arrestors station type | 3 | 3611 | Each | 10834 |
| 9 | INS30003 | 33KV post type insulators | 12 | 927 | Each | 11121 |
| 10 | BAT00027 | 24V 40AH Battery with trickle charger | 1 | 23253 | Each | 23253 |
| 11 | INS30004 | 33KV Disc Insulators | 6 | 279 | Each | 1674 |
| 12 | HWR00004 | 33KV Metal Parts | 6 | 183 | Each | 1097 |
| 13 | CBP00002 | LT PVC CU Control cable 4 core 2.5 sqmm | 50 | 65 | M | 3261 |
| 14 | CBP00006 | LT PVC CU Control cable 10 core 2.5 sqmm | 50 | 162 | M | 8088 |
| 15 | EMT00006 | CI Earth pipe | 3 | 2707 | M | 8121 |
| 16 | | MS Bolts & nuts 5/8"x4" | 50 | 81 | KG | 4050 |
| 17 | | Plinth for VCB | | | | 12000 |
| 18 | | Earthing arrangements (20mts length with 75 x 8 MS flat) | LS | | | 6600 |
| 19 | | Pad clamps, bolt & nuts & Miscellaneous items | LS | | | 1920 |
| | | Sub Total | | 688772 | | 709292 |
| | | Erection and transport and commissioning charges on items 1 to 16 at 10% | | | | 68877 |
| | | Storage & handling charges 1 to 16 at 3% | | | | 20663 |
| | | Contingencies at 3% | | | | 21279 |
| | | GST @ 18% on Labour & Transport | | | | 12398 |
| | | T&P Charges on items No. 1 to 16 at 1% | | | | 6888 |
| | | Establishment and General Charges at 11% | | | | 78022 |
| | | 1% Cess | | | | 7782 |
| | | Total Cost in Rs. | | | | 925201 |
| | | Or say (Rs.) | | | | 925200 |

85. Cost data for erection of M+3 Tower as per standards

| Sl. No. | SAP Code | Particulars | Unit | Qty. | Material | | Labour | |
|---------|----------|---|------|-------|-------------|---------------|-------------|---------------|
| | | | | | Rate in Rs. | Amount in Rs. | Rate in Rs. | Amount in Rs. |
| 1 | | Supply of M+3 Tower with GI angles in full shape with all accessories as per Specification. (MP SSR) including 10% wastage of Tower Material | MT | 1.751 | 73233 | 128246 | | |
| 2 | | Cross arm for M+3 Tower(6Nos) | MT | 0.180 | 73233 | 13182 | | |
| 3 | | Supply of Suitable Hot dip Galvanised, Zinc coated Nuts and bolts with suitable plain and spring washers. (MP SSR) | KG | 158 | 87 | 13746 | | |
| 4 | | Excavation of pit including dewatering, planking, showing and shuttering (where ever necessary) and leveling in all types of soils such as BC, red earth, hard gravel etc., (size 1.6x1.6x3.5 mts. i.e., 8.96 cum | CUM | 8.96 | | | 116 | 1039 |
| 5 | | Erection of tower parts completely as per specifications including erection of insulators with all accessories, jumpering, transport of material and painting of tower with two coats of aluminium paint and bolts and nuts etc. | MT | 1.592 | | | 9948 | 15837 |
| 6 | | Setting of stubs in position for laying of foundation of towers with 1:3:6 CC mix using 40 mm HBG metal including cost of all concreting materials and cement and curing for 14 days (40 mm HBG metal for pyramid portion and 20 mm HBG metal for chimney portion) i.e., 9.98 cum | CUM | 9.98 | | | 4318 | 43094 |
| 7 | | Tack welding bolt and nuts upto 20 feet from ground (144 Nos. bolts to be welded) | Job | 1 | | | 919 | 919 |
| 8 | EMT00020 | Pipe earthing of towers with 40 mm dia GI pipe, including cost of pipe, bentonite powder and running of GI flat etc. | Each | 4 | 545 | 2181 | 1249 | 4996 |
| 9 | | Transport of Material to site including loading and unloading | MT | 1.769 | | | 2000 | 3538 |
| | | Sub Total : | | | | 157355 | | 69423 |
| | | 3% Storage & Handling charges on items 1 to 8 | | | | 4721 | | |
| | | 3% Contingencies on Materials | | | | 4721 | | |
| | | Labour & Transport : | | | | 69423 | | |
| | | GST @ 18% on Labour & Transport | | | | 12496 | | |
| | | 11% Estt. & Genl. charges on Materials | | | | 17309 | | |
| | | 1% Cess | | | | 2268 | | |
| | | Total : | | | | 268293 | | |
| | | Or say : | | | | 268290 | | |

| Schedule of Tower | | | | M+3 |
|--------------------------|--|-------------------------------------|------|------------|
| 1 | | 100x100x10 (Stubs) | Mts. | 4.5 |
| 2 | | 100x100x10 | Mts. | 3.4 |
| 3 | | 100x100x10 | Mts. | 3.0 |
| 4 | | 80x80x10 | Mts. | 3.0 |
| 5 | | 65x65x6 | Mts. | 3.0 |
| | | Total height : | Mts. | 16.9 |
| | | Depth of tower below ground level | Mts. | 3.4 |
| | | Hight of tower above ground level : | Mts. | 13.5 |

86. Cost data for erection of M+6 Tower as per standards

| Sl. No. | SAP Code | Particulars | Unit | Qty. | Material | | Labour | |
|---------|----------|---|------|-------|-------------|---------------|-------------|---------------|
| | | | | | Rate in Rs. | Amount in Rs. | Rate in Rs. | Amount in Rs. |
| 1 | | Supply of M+6 Tower with GI angles in full shape with all accessories as per Specification. (MP SSR) including 10% wastage of Tower Material | MT | 2.143 | 73233 | 156925 | | |
| 2 | | Cross arm for M+6 Tower(6Nos) | MT | 0.180 | 73233 | 13182 | | |
| 3 | | Supply of Suitable Hot dip Galvanised, Zinc coated Nuts and bolts with suitable plain and spring washers. (MP SSR) | KG | 193 | 87 | 16791 | | |
| 4 | | Excavation of pit including dewatering, planking, showing and shuttering (where ever necessary) and leveling in all types of soils such as BC, red earth, hard gravel etc., (size 1.6x1.6x3.5 mts. i.e., 8.96 cum | CUM | 8.96 | | | 116 | 1039 |
| 5 | | Erection of tower parts completely as per specifications including erection of insulators with all accessories, jumpering, transport of material and painting of tower with two coats of aluminium paint and bolts and nuts etc. | MT | 1.948 | | | 9948 | 19379 |
| 6 | | Setting of stubs in position for laying of foundation of towers with 1:3:6 CC mix using 40 mm HBG metal including cost of all concreting materials and cement and curing for 14 days (40 mm HBG metal for pyramid portion and 20 mm HBG metal for chimney porti | CUM | 9.98 | | | 4318 | 43094 |
| 7 | | Tack welding bolt and nuts upto 20 feet from ground (144 Nos. bolts to be welded) | Job | 1 | | | 919 | 919 |
| 8 | EMT00020 | Pipe earthing of towers with 40 mm dia GI pipe, including cost of pipe, bentonite powder and running of GI flat etc. | Each | 4 | 545 | 2181 | 1249 | 4996 |
| 9 | | Transport of Material to site including loading and unloading | MT | 2.163 | | | 2000 | 4326 |
| | | Sub Total : | | | | 189078 | | 73753 |
| | | 3% Storage & Handling charges on items 1 to 8 | | | | 5672 | | |
| | | 3% Contingencies on Materials | | | | 5672 | | |
| | | Labour & Transport : | | | | 73753 | | |
| | | | | | | | | |
| | | GST @ 18% on Labour & Transport | | | | 13275 | | |
| | | 11% Estt. & Genl. charges on Materials | | | | 20799 | | |
| | | 1% Cess | | | | 2628 | | |
| | | Total : | | | | 310878 | | |
| | | Or say : | | | | 310880 | | |

| Schedule of Tower | | | | M+6 |
|-------------------|--|--------------------------------------|------|------|
| 1 | | 100x100x10 (Stubs) | Mts. | 4.5 |
| 2 | | 100x100x10 | Mts. | 3.4 |
| 3 | | 100x100x10 | Mts. | 3.0 |
| 4 | | 100x100x10 | Mts. | 3.0 |
| 5 | | 80x80x10 | Mts. | 3.0 |
| 6 | | 65x65x6 | Mts. | 3.0 |
| | | Total height : | Mts. | 19.9 |
| | | Depth of tower below ground level | Mts. | 3.4 |
| | | Height of tower above ground level : | Mts. | 16.5 |

87. Cost data for erection of M+9 Tower as per standards

| Sl. No. | SAP Code | Particulars | Unit | Qty. | Material | | Labour | |
|---------|----------|---|------|-------|-------------|---------------|-------------|---------------|
| | | | | | Rate in Rs. | Amount in Rs. | Rate in Rs. | Amount in Rs. |
| 1 | | Supply of M+9 Tower with GI angles in full shape with all accessories as per Specification. (MP SSR) including 10% wastage of Tower Material | MT | 2.533 | 73233 | 185522 | | |
| 2 | | Cross arm for M+9 Tower(6Nos) | MT | 0.180 | 73233 | 13182 | | |
| 3 | | Supply of Suitable Hot dip Galvanised, Zinc coated Nuts and bolts with suitable plain and spring washers. (MP SSR) | KG | 228 | 87 | 19836 | | |
| 4 | | Excavation of pit including dewatering, planking, showring and shuttering (where ever necessary) and leveling in all types of soils such as BC, red earth, hard gravel etc., (size 1.6x1.6x3.5 mts. i.e., 8.96 cum | CUM | 8.96 | | | 116 | 1039 |
| 5 | | Erection of tower parts completely as per specifications including erection of insulators with all accessories, jumpering, transport of material and painting of tower with two coats of alluminium paint and bolts and nuts etc. | MT | 2.303 | | | 9948 | 22910 |
| 6 | | Setting of stubs in position for laying of foundation of towers with 1:3:6 CC mix using 40 mm HBG metal including cost of all concreting materials and cement and curing for 14 days (40 mm HBG metal for pyramid portion and 20 mm HBG metal for chimney portion) i.e., 9.98 cum | CUM | 9.98 | | | 4318 | 43094 |
| 7 | | Tack welding bolt and nuts upto 20 feet from ground (144 Nos. bolts to be welded) | Job | 1 | | | 919 | 919 |
| 8 | EMT00020 | Pipe earthing of towers with 40 mm dia GI pipe, including cost of pipe, bentonite powder and running of GI flat etc. | Each | 4 | 545 | 2181 | 1249 | 4996 |
| 9 | | Transport of Material to site including loading and unloading | MT | 2.557 | | | 2000 | 5114 |
| | | Sub Total : | | | | 220721 | | 78072 |
| | | 3% Storage & Handling charges on items 1 to 8 | | | | 6622 | | |
| | | 3% Contingencies on Materials | | | | 6622 | | |
| | | Labour & Transport : | | | | 78072 | | |
| | | GST @ 18% on Labour & Transport | | | | 14053 | | |
| | | 11% Estt. & Genl. charges on Materials | | | | 24279 | | |
| | | 1% Cess | | | | 2988 | | |
| | | Total : | | | | 353357 | | |
| | | Or say : | | | | 353360 | | |

| Schedule of Tower | | | M+9 | |
|-------------------|--------------------------------------|------|------|--|
| 1 | 100x100x10 (Stubs) | Mts. | 4.5 | |
| 2 | 100x100x10 | Mts. | 3.4 | |
| 3 | 100x100x10 | Mts. | 3.0 | |
| 4 | 100x100x10 | Mts. | 3.0 | |
| 5 | 100x100x10 | Mts. | 3.0 | |
| 6 | 80x80x10 | Mts. | 3.0 | |
| 7 | 65x65x6 | Mts. | 3.0 | |
| | Total height : | Mts. | 22.9 | |
| | Depth of tower below ground level | Mts. | 3.4 | |
| | Height of tower above ground level : | Mts. | 19.5 | |

88. Cost data for erection of M+12 Tower as per standards

| Sl. No. | SAP Code | Particulars | Unit | Qty. | Material | | Labour | |
|---------|----------|---|------|-------|-------------|---------------|-------------|---------------|
| | | | | | Rate in Rs. | Amount in Rs. | Rate in Rs. | Amount in Rs. |
| 1 | | Supply of M+12 Tower with GI angles in full shape with all accessories as per Specification. (MP SSR) including 10% wastage of Tower Material | MT | 2.956 | 73233 | 216456 | | |
| 2 | | Cross arm for M+12 Tower(6Nos) | MT | 0.180 | 73233 | 13182 | | |
| 3 | | Supply of Suitable Hot dip Galvanised, Zinc coated Nuts and bolts with suitable plain and spring washers. (MP SSR) | KG | 228 | 87 | 19836 | | |
| 4 | | Excavation of pit including dewatering, planking, showing and shuttering (where ever necessary) and leveling in all types of soils such as BC, red earth, hard gravel etc., (size 1.6x1.6x3.5 mts. i.e., 8.96 cum | CUM | 8.96 | | | 116 | 1039 |
| 5 | | Erection of tower parts completely as per specifications including erection of insulators with all accessories, jumpering, transport of material and painting of tower with two coats of aluminium paint and bolts and nuts etc. | MT | 2.687 | | | 9948 | 26730 |
| 6 | | Setting of stubs in position for laying of foundation of towers with 1:3:6 CC mix using 40 mm HBG metal including cost of all concreting materials and cement and curing for 14 days (40 mm HBG metal for pyramid portion and 20 mm HBG metal for chimney portion) i.e., 9.98 cum | CUM | 9.98 | | | 4318 | 43094 |
| 7 | | Tack welding bolt and nuts upto 20 feet from ground (144 Nos. bolts to be welded) | Job | 1 | | | 919 | 919 |
| 8 | EMT00020 | Pipe earthing of towers with 40 mm dia GI pipe, including cost of pipe, bentonite powder and running of GI flat etc. | Each | 4 | 545 | 2181 | 1249 | 4996 |
| 9 | | Transport of Material to site including loading and unloading | MT | 2.951 | | | 2000 | 5902 |
| | | Sub Total : | | | | 251655 | | 82680 |
| | | 3% Storage & Handling charges on items 1 to 8 | | | | 7550 | | |
| | | 3% Contingencies on Materials | | | | 7550 | | |
| | | Labour & Transport : | | | | 82680 | | |
| | | GST @ 18% on Labour & Transport | | | | 14882 | | |
| | | 11% Estt. & Genl. charges on Materials | | | | 27682 | | |
| | | 1% Cess | | | | 3343 | | |
| | | Total : | | | | 395342 | | |
| | | Or say : | | | | 395340 | | |

| Schedule of Tower | | | M+12 | |
|-------------------|--------------------------------------|------|------|--|
| 1 | 100x100x10 (Stubs) | Mts. | 4.5 | |
| 2 | 100x100x10 | Mts. | 3.4 | |
| 3 | 100x100x10 | Mts. | 3.0 | |
| 4 | 100x100x10 | Mts. | 3.0 | |
| 5 | 100x100x10 | Mts. | 3.0 | |
| 6 | 100x100x10 | Mts. | 3.0 | |
| 7 | 80x80x10 | Mts. | 3.0 | |
| 8 | 65x65x6 | Mts. | 3.0 | |
| | Total height : | Mts. | 25.9 | |
| | Depth of tower below ground level | Mts. | 3.4 | |
| | Height of tower above ground level : | Mts. | 22.5 | |

M+3, M+6, M+9, M+12 Towers Data

| Item | Description | Width | Length | Kg/m | Wt/piece | Nos | Weight | Type | Length | QTY | Unit Wt | Total Wt |
|----------------------|-------------|-------|--------|--------|----------|-----|--------|--|----------|-------|------------|----------|
| | | mm | mm | Kg/m^2 | Kg | | Kg | | | | | |
| BOM for Normal Tower | | | | | | | | Bolts & Nuts Statement for Normal Tower | | | | |
| Stub | L100x100x10 | | 4450 | 14.9 | 66.305 | 4 | 265.22 | M16 | 40 | 250 | 0.125 | 31.25 |
| Stub-Cleat | L45x45x5 | | 300 | 3.4 | 1.020 | 8 | 8.16 | M16 | 45 | 65 | 0.133 | 8.645 |
| M-1 | L100x100x8 | | 2994 | 12.1 | 36.227 | 4 | 144.91 | M16 | 50 | 100 | 0.141 | 14.1 |
| M-2 | L75x75x6 | | 3152 | 6.8 | 21.434 | 1 | 21.43 | M16-Plain washer | | 415 | 0.03 | 12.45 |
| M-3 | L75x75x6 | | 3152 | 6.8 | 21.434 | 1 | 21.43 | M16x6-THK Pack washer | | 30 | 0.104 | 3.12 |
| M-4 | L75x75x6 | | 3152 | 6.8 | 21.434 | 1 | 21.43 | M16x8-THK Pack washer | | 8 | 0.139 | 1.112 |
| M-5 | L75x75x6 | | 3152 | 6.8 | 21.434 | 1 | 21.43 | M16x10-THK Pack washer | | 8 | 0.173 | 1.384 |
| M-6 | L65x65x6 | | 2879 | 5.8 | 16.698 | 1 | 16.70 | Total Wt Kg | | | | 72.061 |
| M-7 | L65x65x6 | | 2879 | 5.8 | 16.698 | 1 | 16.70 | Bolts & Nuts Statement for +3Mts extension Tower | | | | |
| M-8 | L65x65x6 | | 2879 | 5.8 | 16.698 | 1 | 16.70 | M16 | 40 | 32 | 0.125 | 4.000 |
| M-9 | L65x65x6 | | 2879 | 5.8 | 16.698 | 1 | 16.70 | M16 | 45 | 16 | 0.133 | 2.128 |
| M-10 | L100x100x8 | | 376 | 12.1 | 4.550 | 4 | 18.20 | M16 | 50 | 64 | 0.141 | 9.024 |
| M-11 | P376x75x8 | 376 | 75 | 62.8 | 1.771 | 8 | 14.17 | M16-Plain washer | | 112 | 0.03 | 3.360 |
| M-12 | P185x75x2 | 185 | 75 | 15.7 | 0.218 | 8 | 1.74 | M16x8-THK Pack washer | | 12 | 0.139 | 1.668 |
| M-13 | L45x45x5 | | 1232 | 3.4 | 4.189 | 32 | 134.04 | M16x10-THK Pack washer | | 4 | 0.173 | 0.692 |
| M-14 | L75x75x6 | | 266 | 6.8 | 1.809 | 4 | 7.24 | Total Wt Kg | | | | 20.872 |
| M-15 | P266x75x6 | 266 | 75 | 47.1 | 0.940 | 8 | 7.52 | Heights | | | | |
| M-16 | P130x75x2 | 130 | 75 | 15.7 | 0.153 | 8 | 1.22 | Normal Tower | | | MM | Ft |
| M-17 | L45x45x5 | | 1240 | 3.4 | 4.216 | 8 | 33.73 | Up to GL | 300+2900 | 3200 | | 10.5 |
| M-18 | L45x45x5 | | 1248 | 3.4 | 4.243 | 8 | 33.95 | Above GL | | 100 | | 0.3 |
| M-19 | L45x45x5 | | 1190 | 3.4 | 4.046 | 4 | 16.18 | | 1000x7 | 7000 | | 23.0 |
| M-20 | L45x45x5 | | 710 | 3.4 | 2.414 | 2 | 4.83 | | 1500x2 | 3000 | | 9.8 |
| M-21 X | L45x45x5 | | 1005 | 3.4 | 3.417 | 4 | 13.67 | | | 366 | 1.2007874 | |
| M-21 | L45x45x5 | | 1005 | 3.4 | 3.417 | 4 | 13.67 | | | 10466 | 34.3 | |
| M-22 X | L45x45x5 | | 1012 | 3.4 | 3.441 | 12 | 41.29 | Total | | 13666 | 44.8 | |
| M-22 | L45x45x5 | | 1012 | 3.4 | 3.441 | 12 | 41.29 | Above GL | | | | |
| M-23 | L45x45x5 | | 730 | 3.4 | 2.482 | 4 | 9.93 | Normal Tower | | 10466 | 34.3372703 | |
| M-24 | L45x45x5 | | 730 | 3.4 | 2.482 | 4 | 9.93 | Normal Tower + 3Mts | | 13466 | 44.17979 | |
| M-25 | L45x45x5 | | 231 | 6.8 | 1.571 | 4 | 6.28 | Normal Tower + 6Mts | | 16466 | 54.0223097 | |
| M-26 | L45x45x5 | | 1142 | 4.5 | 5.139 | 2 | 10.28 | Normal Tower + 9Mts | | 19466 | 63.8648294 | |
| M-27 | L45x45x5 | | 1142 | 4.5 | 5.139 | 2 | 10.28 | Normal Tower + 12Mts | | 22466 | 73.7073491 | |
| M-28 | L45x45x5 | | 840 | 3.4 | 2.856 | 2 | 5.71 | | | | | |
| M-29 | L45x45x5 | | 840 | 3.4 | 2.856 | 2 | 5.71 | | | | | |
| M-30 | P150x100x6 | 150 | 100 | 47.1 | 0.707 | 2 | 1.41 | | | | | |
| M-30 X | P150x100x6 | 150 | 100 | 47.1 | 0.707 | 2 | 1.41 | | | | | |

| Item | Description | Width | Length | Kg/m | Wt/piece | Nos | Weight | Type | Length | QTY | Unit Wt | Total Wt |
|---------------------------------|-------------|-------|--------|--------|----------|-----|-----------------|----------------|--------|-----|---------|----------|
| | | mm | mm | Kg/m^2 | Kg | | Kg | | | | | |
| M-31 | P225x100x6 | 225 | 100 | 47.1 | 1.060 | 6 | 6.36 | | | | | |
| M-32 | P262x150x8 | 282 | 150 | 62.8 | 2.656 | 6 | 15.94 | | | | | |
| M-33 | L50x50x6 | | 1142 | 4.5 | 5.139 | 4 | 20.56 | | | | | |
| M-34 | L50x50x6 | | 1142 | 4.5 | 5.139 | 4 | 20.56 | | | | | |
| M-35 | L45x45x5 | | 820 | 3.4 | 2.788 | 4 | 11.15 | | | | | |
| M-36 | L45x45x5 | | 820 | 3.4 | 2.788 | 4 | 11.15 | | | | | |
| M-37 | P150x100x6 | 150 | 100 | 47.1 | 0.707 | 4 | 2.83 | | | | | |
| M-37 X | P150x100x6 | 150 | 100 | 47.1 | 0.707 | 4 | 2.83 | | | | | |
| M-38 X | L45x45x5 | | 1168 | 3.4 | 3.971 | 2 | 7.94 | | | | | |
| M-38 | L45x45x5 | | 1168 | 3.4 | 3.971 | 2 | 7.94 | | | | | |
| M-39 | L50x50x6 | | 860 | 4.5 | 3.870 | 2 | 7.74 | | | | | |
| M-40 | L50x50x6 | | 860 | 4.5 | 3.870 | 4 | 15.48 | | | | | |
| M-41 | L45x45x5 | | 959 | 3.4 | 3.261 | 3 | 9.78 | | | | | |
| M-41 X | L45x45x5 | | 959 | 3.4 | 3.261 | 3 | 9.78 | | | | | |
| | | | | | | | Total Weight Kg | 1164.52 | | | | |
| For each +3Mts | | | | | | | | | | | | |
| M-13 | L45x45x5 | | 1232 | 3.4 | 4.189 | 24 | 100.53 | | | | | |
| M-42 | L100x100x10 | | 376 | 14.9 | 5.602 | 4 | 22.41 | | | | | |
| M-43 | P376x75x8 | 75 | 376 | 62.8 | 1.771 | 8 | 14.17 | | | | | |
| M-44 | L110x110x10 | | 2994 | 16.5 | 49.401 | 4 | 197.60 | | | | | |
| | | | | | | | Total Weight Kg | 334.71 | | | | |
| STUB BOM for Normal Tower +12Mt | | | | | | | | | | | | |
| Stub | L110x110x10 | | 4450 | 16.5 | 73.425 | 4 | 293.70 | | | | | |
| Stub-Cleat | L45x45x5 | | 300 | 3.4 | 1.020 | 8 | 8.16 | | | | | |
| | | | | | | | Total Weight Kg | 301.86 | | | | |

| Weights (Kg) | | | |
|--------------|----------------------|----------------|-------|
| Normal Tower | Angles | Plates | B&N |
| Stub | 265.22 | | |
| Stub-Cleat | 8.16 | | |
| Structure | 835.72 | 55.43 | 72.06 |
| | 1109.10 | 55.43 | 72.06 |
| | Total Wt | 1236.58 | |
| | Normal Tower + 3Mts | 1592.17 | |
| | Normal Tower + 6Mts | 1947.75 | |
| | Normal Tower + 9Mts | 2303.34 | |
| | Normal Tower + 12Mts | 2687.40 | |

89. Cost data for 33KV Fabricated Line Items as per standards

| Sl. No. | Name of the Item | Type of the Material | Length in Mts | Weight per Metre | Weight of the Material in Kgs | | | | Cost of Material per Kg | Labour charges per Kg | Cost of the Material in Rs. | | | | Labour Charges in Rs. | Total Cost of Item in Rs. |
|---------|------------------------------------|--|---------------|------------------|-------------------------------|----------------|--------------|---------------------|-------------------------|-----------------------|-----------------------------|----------------------|-----------------|-------------------|-----------------------|---------------------------|
| | | | | | Weight in Kgs | Add:1% wastage | Add:4% scrap | Total Weight in Kgs | | | Cost in Rs. | Add:3% contingencies | Deduct:4% scrap | Total Cost in Rs. | | |
| 1 | 33KV V-Cross Arm | 100x50 MS Channel 120+796+320+796+120mm | 2.152 | 9.200 | 19.798 | 0.198 | 0.792 | 20.788 | 44.191 | 8.000 | 918.657 | 27.560 | 6.335 | 939.881 | 171.145 | 1137.967 |
| | | 50x6 MS Flat(60mm*4) | 0.240 | 2.400 | 0.576 | 0.006 | 0.023 | 0.605 | 44.191 | 8.000 | 26.727 | 0.802 | 0.588 | 26.941 | | |
| 2 | 33KV Horizontal Cross Arm | 100x50 MS Channel 2100mm | 2.100 | 9.200 | 19.320 | 0.193 | 0.773 | 20.286 | 44.191 | 8.000 | 896.459 | 26.894 | 19.706 | 903.646 | 162.288 | 1065.934 |
| 3 | Back clamp for 8.0m PSCC Pole | 50*6 MS Flat (60+75+180+75+60 mm) | 0.450 | 2.400 | 1.080 | 0.011 | 0.043 | 1.134 | 44.191 | 8.000 | 50.113 | 1.503 | 1.102 | 50.514 | 9.072 | 59.586 |
| 4 | Back clamp for 9.1m PSCC Pole | 75*8 MS Flat (60+125+200+125+60 mm) | 0.570 | 4.710 | 2.685 | 0.027 | 0.107 | 2.819 | 44.191 | 8.000 | 124.572 | 3.737 | 2.738 | 125.570 | 22.551 | 148.122 |
| | | 50*6 MS Flat (60+125+200+125+60 mm) | 0.570 | 2.400 | 1.368 | 0.014 | 0.055 | 1.436 | 44.191 | 8.000 | 63.476 | 1.904 | 1.395 | 63.985 | 11.491 | 75.476 |
| 5 | Back clamp for 11.0m PSCC Pole | 75*8 MS Flat (60+130+270+130+60 mm) | 0.640 | 4.710 | 3.014 | 0.030 | 0.121 | 3.165 | 44.191 | 8.000 | 139.870 | 4.196 | 3.075 | 140.991 | 25.321 | 166.312 |
| | | 50*6 MS Flat (60+130+270+130+60 mm) | 0.640 | 2.400 | 1.536 | 0.015 | 0.061 | 1.613 | 44.191 | 8.000 | 71.271 | 2.138 | 1.567 | 71.843 | 12.902 | 84.745 |
| 6 | Back clamp for Spun Pole at HT | 75*8 MS Flat (88.9+478.97+88.9mm) | 0.657 | 4.710 | 3.093 | 0.031 | 0.124 | 3.248 | 44.191 | 8.000 | 143.535 | 4.306 | 3.155 | 144.686 | 25.985 | 170.670 |
| 7 | Back clamp for Spun Pole at LT | 75*8 MS Flat (88.9+598.71+88.9mm) | 0.777 | 4.710 | 3.657 | 0.037 | 0.146 | 3.840 | 44.191 | 8.000 | 169.705 | 5.091 | 3.731 | 171.065 | 30.722 | 201.787 |
| 8 | Stay clamp set for 8.0m PSCC Pole | 50*6 MS Flat 2*(60+32+180+32+60 mm) | 0.728 | 2.400 | 1.747 | 0.017 | 0.070 | 1.835 | 44.191 | 8.000 | 81.071 | 2.432 | 1.782 | 81.721 | 14.676 | 96.398 |
| 9 | Stay clamp set for 9.1m PSCC Pole | 75*8 MS Flat 2*(60+60+200+60+60 mm) | 0.880 | 4.710 | 4.145 | 0.041 | 0.166 | 4.352 | 44.191 | 8.000 | 192.321 | 5.770 | 4.228 | 193.863 | 34.816 | 228.679 |
| | | 50*6 MS Flat 2*(60+60+200+60+60 mm) | 0.880 | 2.400 | 2.112 | 0.021 | 0.084 | 2.218 | 44.191 | 8.000 | 97.998 | 2.940 | 2.154 | 98.784 | 17.741 | 116.524 |
| 10 | Stay clamp set for 11.0m PSCC Pole | 75*8 MS Flat 2*(60+60+270+60+60 mm) | 1.020 | 4.710 | 4.804 | 0.048 | 0.192 | 5.044 | 44.191 | 8.000 | 222.918 | 6.688 | 4.900 | 224.705 | 40.355 | 265.060 |
| | | 50*6 MS Flat 2*(60+60+270+60+60 mm) | 1.020 | 2.400 | 2.448 | 0.024 | 0.098 | 2.570 | 44.191 | 8.000 | 113.589 | 3.408 | 2.497 | 114.499 | 20.563 | 135.062 |
| 11 | Stay clamp set for Spun Pole at HT | 75*8 MS Flat 2*(85+478.97+85mm) | 1.298 | 4.710 | 6.113 | 0.061 | 0.245 | 6.419 | 44.191 | 8.000 | 283.660 | 8.510 | 6.236 | 285.935 | 51.352 | 337.286 |
| 12 | Stay clamp set for Spun Pole at LT | 75*8 MS Flat 2*(85+598.71+85mm) | 1.537 | 4.710 | 7.241 | 0.072 | 0.290 | 7.603 | 44.191 | 8.000 | 335.998 | 10.080 | 7.386 | 338.692 | 60.826 | 399.518 |

| Sl. No. | Name of the Item | Type of the Material | Length in Mts | Weight per Metre | Weight of the Material in Kgs | | | | Cost of Material per Kg | Labour charges per Kg | Cost of the Material in Rs. | | | | Labour Charges in Rs. | Total Cost of Item in Rs. | |
|---------|---|--|---------------|------------------|-------------------------------|----------------|--------------|---------------------|-------------------------|-----------------------|-----------------------------|----------------------|------------------|-------------------|-----------------------|---------------------------|-------|
| | | | | | Weight in Kgs | Add:1% wastage | Add:4% scrap | Total Weight in Kgs | | | Cost in Rs. | Add:3% contingencies | Deduct:4 % scrap | Total Cost in Rs. | | | |
| 13 | 33 kv MS Stay set without clamps and base plate | Anchor rod + bow (20 mm dia) ((1760+2x22/7x40)+(2x450+22/7x20/2+22/7x1/4x20x2) mm) | 2.974 | 2.470 | 7.346 | 0.073 | 0.294 | 7.713 | 53.830 | 8.000 | 415.194 | 12.456 | 7.493 | 420.157 | 61.705 | 857.973 | |
| | | Eye bolt ((450-40)+(22/7xD) mm) | 0.805 | 4.700 | 3.784 | 0.038 | 0.151 | 3.973 | 44.191 | 8.000 | 175.556 | 5.267 | 3.859 | 176.964 | 31.781 | | |
| | | MS Channel 100x50 (180mm) | 0.180 | 9.200 | 1.656 | 0.017 | 0.066 | 1.739 | 44.191 | 8.000 | 76.839 | 2.305 | 1.689 | 77.455 | 13.910 | | |
| | | Square washer @ ` 22/each | | | | | | | | | | | | | 22.000 | | 0.000 |
| | | Hexagonal nut 20 mm dia @ ` 18/each | | | | | | | | | | | | | 54.000 | | 0.000 |
| 14 | 33 kv Bracing set with double x-arm | MS Channel 100x50x6 mm (Top) (3150 mm x 2 Nos.) | 6.300 | 9.200 | 57.960 | 0.580 | 2.318 | 60.858 | 44.191 | 8.000 | 2689.376 | 80.681 | 59.119 | 2710.938 | 486.864 | 7271.524 | |
| | | Belting Angle 65x65x6 mm (1800 mm x 2 Nos.) | 3.600 | 5.800 | 20.880 | 0.209 | 0.835 | 21.924 | 44.191 | 8.000 | 968.843 | 29.065 | 21.298 | 976.611 | 175.392 | | |
| | | Bracing Angle 50x50x6 mm (2500 mm x 2 Nos.) | 5.000 | 4.500 | 22.500 | 0.225 | 0.900 | 23.625 | 44.191 | 8.000 | 1044.012 | 31.320 | 22.950 | 1052.383 | 189.000 | | |
| | | MS Flat 75x8 mm (500 mm x 2 Nos. x 2 sets) | 2.000 | 4.700 | 9.400 | 0.094 | 0.376 | 9.870 | 44.191 | 8.000 | 436.165 | 13.085 | 9.588 | 439.662 | 78.960 | | |
| | | Fish Plates 75x8 mm (MS Plate) (280 mm x 6 Nos.) | 1.680 | 4.700 | 7.896 | 0.079 | 0.316 | 8.291 | 44.191 | 8.000 | 366.379 | 10.991 | 8.054 | 369.316 | 66.326 | | |
| | | Back clamps for bracings MS Flat 75x8 mm ((800+600) mm x 2 Nos.) | 2.800 | 4.700 | 13.160 | 0.132 | 0.526 | 13.818 | 44.191 | 8.000 | 610.631 | 18.319 | 13.423 | 615.527 | 110.544 | | |
| 15 | 33 kv Top fitting with clamp | MS Angle 65x65x6 (500 mm) | 0.500 | 5.800 | 2.900 | 0.029 | 0.116 | 3.045 | 44.191 | 8.000 | 134.562 | 4.037 | 2.958 | 135.640 | 24.360 | 493.794 | |
| | | MS Channel 100x50x6 (65 mm) | 0.065 | 9.200 | 0.598 | 0.006 | 0.024 | 0.628 | 44.191 | 8.000 | 27.748 | 0.832 | 0.610 | 27.970 | 5.023 | | |
| | | MS Flat 75x8 (580 mm) | 1.160 | 4.700 | 5.452 | 0.055 | 0.218 | 5.725 | 44.191 | 8.000 | 252.976 | 7.589 | 5.561 | 255.004 | 45.797 | | |
| 16 | 33 kv T-raiser with MS Channel 100x50 with 2sets of stay clamps | MS Channel 100x50 (2.1+1.5 mts.) | 3.600 | 9.200 | 33.120 | 0.331 | 1.325 | 34.776 | 44.191 | 8.000 | 1536.786 | 46.104 | 33.782 | 1549.107 | 278.208 | 2357.435 | |
| | | 75*8 MS Flat 4*(60+60+270+60+60 mm) | 2.040 | 4.710 | 9.608 | 0.096 | 0.384 | 10.089 | 44.191 | 8.000 | 445.835 | 13.375 | 9.801 | 449.410 | 80.711 | | |
| 17 | 33 kv Side arm with Strut and clamps | MS Channel 100x50 | 2.100 | 9.200 | 19.320 | 0.193 | 0.773 | 20.286 | 44.191 | 8.000 | 896.459 | 26.894 | 19.706 | 903.646 | 162.288 | 2296.393 | |
| | | MS Angle 65x65x6 | 2.500 | 5.800 | 14.500 | 0.145 | 0.580 | 15.225 | 44.191 | 8.000 | 672.808 | 20.184 | 14.790 | 678.202 | 121.800 | | |
| | | Back clamp with 75*8 MS Flat (60+130+270+130+60 mm) | 0.640 | 4.700 | 3.008 | 0.030 | 0.120 | 3.158 | 44.191 | 8.000 | 139.573 | 4.187 | 3.068 | 140.692 | 25.267 | | |
| | | Stay clamp set with 75*8 MS Flat 2*(60+60+270+60+60 mm) | 1.020 | 4.700 | 4.794 | 0.048 | 0.192 | 5.034 | 44.191 | 8.000 | 222.444 | 6.673 | 4.890 | 224.228 | 40.270 | | |

90. Cost data for 11KV Fabricated Line Items as per standards

| Sl. No. | Name of the Item | Type of the Material | Length in Mts | Weight per Metre | Weight of the Material in Kgs | | | | Cost of Material per Kg | Labour charges per Kg | Cost of the Material in Rs. | | | | Labour Charges in Rs. | Total Cost of Item in Rs. |
|---------|---|--|---------------|------------------|-------------------------------|----------------|--------------|---------------------|-------------------------|-----------------------|-----------------------------|----------------------|------------------|-------------------|-----------------------|---------------------------|
| | | | | | Weight in Kgs | Add:1% wastage | Add:4% scrap | Total Weight in Kgs | | | Cost in Rs. | Add:3% contingencies | Deduct:4 % scrap | Total Cost in Rs. | | |
| 1 | 11KV V-Cross Arm | 75x40 MS Channel (80+438.40+370+438.40+80 mm) | 1.407 | 6.800 | 9.568 | 0.096 | 0.383 | 10.046 | 44.191 | 8.000 | 443.942 | 13.318 | 9.759 | 447.501 | 85.206 | 559.648 |
| | | 50x6 MS Flat(60mm*4) | 0.240 | 2.400 | 0.576 | 0.006 | 0.023 | 0.605 | 44.191 | 8.000 | 26.727 | 0.802 | 0.588 | 26.941 | | |
| 2 | 11KV Horizontal Cross Arm | 75x40 MS Channel 1500mm | 1.500 | 6.800 | 10.200 | 0.102 | 0.408 | 10.710 | 44.191 | 8.000 | 473.286 | 14.199 | 10.404 | 477.080 | 85.680 | 562.760 |
| 3 | Back clamp for 8.0m PSCC Pole | 50x6 MS Flat (60+75+180+75+60 mm) | 0.450 | 2.400 | 1.080 | 0.011 | 0.043 | 1.134 | 44.191 | 8.000 | 50.113 | 1.503 | 1.102 | 50.514 | 9.072 | 59.586 |
| 4 | Back clamp for 9.1m PSCC Pole | 50x6 MS Flat (60+125+200+125+60 mm) | 0.570 | 2.400 | 1.368 | 0.014 | 0.055 | 1.436 | 44.191 | 8.000 | 63.476 | 1.904 | 1.395 | 63.985 | 11.491 | 75.476 |
| 5 | Back clamp for 11.0m PSCC Pole | 50x6 MS Flat (60+130+270+130+60 mm) | 0.640 | 2.400 | 1.536 | 0.015 | 0.061 | 1.613 | 44.191 | 8.000 | 71.271 | 2.138 | 1.567 | 71.843 | 12.902 | 84.745 |
| 6 | Back clamp for Spun Pole at HT | 50x6 MS Flat (88.9+478.97+88.9mm) | 0.657 | 2.400 | 1.576 | 0.016 | 0.063 | 1.655 | 44.191 | 8.000 | 73.139 | 2.194 | 1.608 | 73.725 | 13.241 | 86.966 |
| 7 | Back clamp for Spun Pole at LT | 50x6 MS Flat (88.9+598.71+88.9mm) | 0.777 | 2.400 | 1.864 | 0.019 | 0.075 | 1.957 | 44.191 | 8.000 | 86.474 | 2.594 | 1.901 | 87.167 | 15.655 | 102.821 |
| 8 | Stay clamp set for 8.0m PSCC Pole | 50x6 MS Flat 2*(60+32+180+32+60 mm) | 0.728 | 2.400 | 1.747 | 0.017 | 0.070 | 1.835 | 44.191 | 8.000 | 81.071 | 2.432 | 1.782 | 81.721 | 14.676 | 96.398 |
| 9 | Stay clamp set for 9.1m PSCC Pole | 50x6 MS Flat 2*(60+60+200+60+60 mm) | 0.880 | 2.400 | 2.112 | 0.021 | 0.084 | 2.218 | 44.191 | 8.000 | 97.998 | 2.940 | 2.154 | 98.784 | 17.741 | 116.524 |
| 10 | Stay clamp set for 11.0m PSCC Pole | 50x6 MS Flat 2*(60+60+270+60+60 mm) | 1.020 | 2.400 | 2.448 | 0.024 | 0.098 | 2.570 | 44.191 | 8.000 | 113.589 | 3.408 | 2.497 | 114.499 | 20.563 | 135.062 |
| 11 | Stay clamp set for Spun Pole at HT | 50x6 MS Flat 2*(85+478.97+85mm) | 1.298 | 2.400 | 3.115 | 0.031 | 0.125 | 3.271 | 44.191 | 8.000 | 144.540 | 4.336 | 3.177 | 145.699 | 26.166 | 171.866 |
| 12 | Stay clamp set for Spun Pole at LT | 50x6 MS Flat 2*(85+598.71+85mm) | 1.537 | 2.400 | 3.690 | 0.037 | 0.148 | 3.874 | 44.191 | 8.000 | 171.209 | 5.136 | 3.764 | 172.582 | 30.994 | 203.576 |
| 13 | 11 kv MS Stay set without clamps and base plate | Anchor rod + bow (16 mm dia) ((1760+2x22/7x40)+(2x450+22/7x20/2+22/7x1/4x20x2) mm) | 2.974 | 1.580 | 4.699 | 0.047 | 0.188 | 4.934 | 44.191 | 8.000 | 218.032 | 6.541 | 4.793 | 219.781 | 39.471 | 463.827 |
| | | Eye bolt((450-40)+(22/7xD) mm) | 0.536 | 2.470 | 1.324 | 0.013 | 0.053 | 1.390 | 44.191 | 8.000 | 61.431 | 1.843 | 1.350 | 61.923 | 11.121 | |
| | | MS Channel 75x40 (180mm) | 0.180 | 6.800 | 1.224 | 0.012 | 0.049 | 1.285 | 44.191 | 8.000 | 56.794 | 1.704 | 1.248 | 57.250 | 10.282 | |
| | | Square washer @ ` 22/each | | | | | | | | 8.000 | | | | 22.000 | 0.000 | |
| | | Hexagonal nut 20 mm dia @ ` 18/each | | | | | | | 8.000 | | | | 42.000 | 0.000 | | |
| 14 | 11 kv Bracing set with double x-arm | MS Channel 75x40x6 mm (Top) (2500 mm x 2 Nos.) | 5.000 | 6.800 | 34.000 | 0.340 | 1.360 | 35.700 | 44.191 | 8.000 | 1577.619 | 47.329 | 34.680 | 1590.267 | 285.600 | 4771.103 |
| | | Belting Angle 50x50x6 mm (1800 mm x 2 Nos.) | 3.600 | 4.500 | 16.200 | 0.162 | 0.648 | 17.010 | 44.191 | 8.000 | 751.689 | 22.551 | 16.524 | 757.716 | 136.080 | |
| | | Bracing Angle 50x50x6 mm (2500 mm x 2 Nos.) | 5.000 | 4.500 | 22.500 | 0.225 | 0.900 | 23.625 | 44.191 | 8.000 | 1044.012 | 31.320 | 22.950 | 1052.383 | 189.000 | |
| | | MS Flat 50x6 mm (400 mm x 2 Nos. x 2 sets) | 1.600 | 2.400 | 3.840 | 0.038 | 0.154 | 4.032 | 44.191 | 8.000 | 178.178 | 5.345 | 3.917 | 179.607 | 32.256 | |
| | | Fish Plates 50x6 mm (MS Plate) (240 mm x 6 Nos.) | 1.440 | 2.400 | 3.456 | 0.035 | 0.138 | 3.629 | 44.191 | 8.000 | 160.360 | 4.811 | 3.525 | 161.646 | 29.030 | |
| | | Back clamps for bracings MS Flat 50x6 mm ((750+600) mm x 2 Nos.) | 2.700 | 2.400 | 6.480 | 0.065 | 0.259 | 6.804 | 44.191 | 8.000 | 300.676 | 9.020 | 6.610 | 303.086 | 54.432 | |

| Sl. No. | Name of the Item | Type of the Material | Length in Mts | Weight per Metre | Weight of the Material in Kgs | | | | Cost of Material per Kg | Labour charges per Kg | Cost of the Material in Rs. | | | | Labour Charges in Rs. | Total Cost of Item in Rs. |
|---------|--|---|---------------|------------------|-------------------------------|----------------|--------------|---------------------|-------------------------|-----------------------|-----------------------------|----------------------|------------------|-------------------|-----------------------|---------------------------|
| | | | | | Weight in Kgs | Add:1% wastage | Add:4% scrap | Total Weight in Kgs | | | Cost in Rs. | Add:3% contingencies | Deduct:4 % scrap | Total Cost in Rs. | | |
| 15 | 11 kv Top fitting with clamp | MS Angle 50x50x6 (300 mm) | 0.300 | 4.500 | 1.350 | 0.014 | 0.054 | 1.418 | 44.191 | 8.000 | 62.641 | 1.879 | 1.377 | 63.143 | 11.340 | 252.470 |
| | | MS Channel 75x40x6 (65 mm) | 0.065 | 6.800 | 0.442 | 0.004 | 0.018 | 0.464 | 44.191 | 8.000 | 20.509 | 0.615 | 0.451 | 20.673 | 3.713 | |
| | | MS Flat 50x6 (580 mm) | 1.160 | 2.400 | 2.784 | 0.028 | 0.111 | 2.923 | 44.191 | 8.000 | 129.179 | 3.875 | 2.840 | 130.215 | 23.386 | |
| 16 | 11 kv T-raiser with MS Channel 100x50 with 2sets of stay clamps | MS Channel 75x40 (1.5+1.5 mts.) | 3.000 | 9.200 | 27.600 | 0.276 | 1.104 | 28.980 | 44.191 | 8.000 | 1280.655 | 38.420 | 28.152 | 1290.923 | 231.840 | 1792.888 |
| | | 50x6 MS Flat 4*(60+60+270+60+60 mm) | 2.040 | 2.400 | 4.896 | 0.049 | 0.196 | 5.141 | 44.191 | 8.000 | 227.177 | 6.815 | 4.994 | 228.998 | 41.126 | |
| 17 | 11 kv Side arm with Strut | MS Channel 75x40 | 1.650 | 6.800 | 11.220 | 0.112 | 0.449 | 11.781 | 44.191 | 8.000 | 520.614 | 15.618 | 11.444 | 524.788 | 94.248 | 1260.914 |
| | | MS Angle 50x50x6 | 1.700 | 4.500 | 7.650 | 0.077 | 0.306 | 8.033 | 44.191 | 8.000 | 354.964 | 10.649 | 7.803 | 357.810 | 64.260 | |
| | | Back clamp with 50x6 MS Flat (60+130+270+130+60 mm) | 0.640 | 2.400 | 1.536 | 0.015 | 0.061 | 1.613 | 44.191 | 8.000 | 71.271 | 2.138 | 1.567 | 71.843 | 12.902 | |
| | | Stay clamp set with 50x6 MS Flat 2*(60+60+270+60+60 mm) | 1.020 | 2.400 | 2.448 | 0.024 | 0.098 | 2.570 | 44.191 | 8.000 | 113.589 | 3.408 | 2.497 | 114.499 | 20.563 | |
| 18 | DP Structure Set | MS Channel 100x50(3240mm 2Nos) | 6.48 | 9.200 | 59.616 | 0.596 | 2.385 | 62.597 | 55.200 | 8.000 | 3455.343 | 103.660 | 60.808 | 3498.195 | 500.774 | 7832.389 |
| | | MS Angle 65x65x6(1800mm 2Nos) | 3.6 | 5.800 | 20.880 | 0.209 | 0.835 | 21.924 | 55.200 | 8.000 | 1210.205 | 36.306 | 21.298 | 1225.213 | 175.392 | |
| | | MS Angle 50x50x6(2700mm 2Nos) | 5.4 | 4.500 | 24.300 | 0.243 | 0.972 | 25.515 | 55.200 | 8.000 | 1408.428 | 42.253 | 24.786 | 1425.895 | 204.120 | |
| | | MS Angle 65x65x6(280mm 4Nos) | 1.12 | 5.800 | 6.496 | 0.065 | 0.260 | 6.821 | 55.200 | 8.000 | 376.508 | 11.295 | 6.626 | 381.177 | 54.566 | |
| | | MS Clamps 50x6(570mm 4Nos) | 2.28 | 2.400 | 5.472 | 0.055 | 0.219 | 5.746 | 55.200 | 8.000 | 317.157 | 9.515 | 5.581 | 321.090 | 45.965 | |
| 19 | SP Structure Set for Mounting of DTR (16/25/40KVA) | MS Channel 75x40(1220mm 2Nos) | 2.44 | 6.800 | 16.592 | 0.166 | 0.664 | 17.422 | 55.200 | 8.000 | 961.672 | 28.850 | 16.924 | 973.599 | 139.373 | 1991.167 |
| | | MS Angle 50x50x6(1524mm 1Nos) | 1.524 | 4.500 | 6.858 | 0.069 | 0.274 | 7.201 | 55.200 | 8.000 | 397.490 | 11.925 | 6.995 | 402.419 | 57.607 | |
| | | MS Angle 50x50x6(458mm 2Nos) | 0.916 | 4.500 | 4.122 | 0.041 | 0.165 | 4.328 | 55.200 | 8.000 | 238.911 | 7.167 | 4.204 | 241.874 | 34.625 | |
| | | 50x6 MS Flat 2*(60+60+200+60+60 mm) | 0.880 | 2.400 | 2.112 | 0.021 | 0.084 | 2.218 | 55.200 | 8.000 | 122.412 | 3.672 | 2.154 | 123.930 | 17.741 | |
| 20 | SP Structure Set for Mounting of AB Switch | MS Channel 75x40(1500mm 1Nos) | 1.5 | 6.800 | 10.200 | 0.102 | 0.408 | 10.710 | 55.200 | 8.000 | 591.192 | 17.736 | 10.404 | 598.524 | 85.680 | 2950.662 |
| | | MS Channel 75x40(1100mm 2Nos) | 2.2 | 6.800 | 14.960 | 0.150 | 0.598 | 15.708 | 55.200 | 8.000 | 867.082 | 26.012 | 15.259 | 877.835 | 125.664 | |
| | | MS Angle 50x50x6(1100mm 2Nos) | 2.2 | 4.500 | 9.900 | 0.099 | 0.396 | 10.395 | 55.200 | 8.000 | 573.804 | 17.214 | 10.098 | 580.920 | 83.160 | |
| | | 50x6 MS Flat 2*(60+125+1050+125+60 mm) | 2.840 | 2.400 | 6.816 | 0.068 | 0.273 | 7.157 | 55.200 | 8.000 | 395.055 | 11.852 | 6.952 | 399.955 | 57.254 | |
| | | 50x6 MS Flat 2*(60+60+200+60+60 mm) | 0.880 | 2.400 | 2.112 | 0.021 | 0.084 | 2.218 | 55.200 | 8.000 | 122.412 | 3.672 | 2.154 | 123.930 | 17.741 | |
| 21 | SP Structure Set for Mounting of S-Ph 16KVA DTR with Mounting of AB Switch | MS Channel 75x40(600mm 1Nos) | 1.2 | 6.800 | 8.160 | 0.082 | 0.326 | 8.568 | 55.200 | 8.000 | 472.954 | 14.189 | 8.323 | 478.819 | 68.544 | 1151.072 |
| | | MS Channel 75x40(360mm 2Nos) | 0.72 | 6.800 | 4.896 | 0.049 | 0.196 | 5.141 | 55.200 | 8.000 | 283.772 | 8.513 | 4.994 | 287.291 | 41.126 | |
| | | 50x6 MS Flat 3*(60+125+200+125+60 mm) | 1.710 | 2.400 | 4.104 | 0.041 | 0.164 | 4.309 | 55.200 | 8.000 | 237.868 | 7.136 | 4.186 | 240.818 | 34.474 | |

91. Cost data for LT Fabricated Line Items as per standards

| Sl. No. | Name of the Item | Type of the Material | Length in Mts | Weight per Metre | Weight of the Material in Kgs | | | | Cost of Material per Kg | Labour charges per Kg | Cost of the Material in Rs. | | | | Labour Charges in Rs. | Total Cost of Item in Rs. |
|---------|--|--|---------------|------------------|-------------------------------|----------------|--------------|---------------------|-------------------------|-----------------------|-----------------------------|----------------------|------------------|-------------------|-----------------------|---------------------------|
| | | | | | Weight in Kgs | Add:1% wastage | Add:4% scrap | Total Weight in Kgs | | | Cost in Rs. | Add:3% contingencies | Deduct:4 % scrap | Total Cost in Rs. | | |
| 1 | LT 3-ph 5 W/L x-arm 50x50x6 mm | 50x50x6 MS Angle (30+300+450+300+300+30+(250)) | 1.660 | 4.500 | 7.470 | 0.075 | 0.299 | 7.844 | 44.191 | 8.000 | 346.612 | 10.398 | 7.619 | 349.391 | 62.748 | 412.139 |
| | | 75x40x6 MS Channel (300+450+300+300+(250)) | 1.410 | 6.800 | 9.588 | 0.096 | 0.384 | 10.067 | 44.191 | 8.000 | 444.888 | 13.347 | 9.780 | 448.455 | 80.539 | 528.995 |
| 2 | LT 3-ph 4 W/L x-arm 50x50x6 mm | 50x50x6 MS Angle (30+300+450+300+30+(200)) | 1.310 | 4.500 | 5.895 | 0.059 | 0.236 | 6.190 | 44.191 | 8.000 | 273.531 | 8.206 | 6.013 | 275.724 | 49.518 | 325.242 |
| | | 75x40x6 MS Channel (300+450+300+(200)) | 1.030 | 6.800 | 7.004 | 0.070 | 0.280 | 7.354 | 44.191 | 8.000 | 324.989 | 9.750 | 7.144 | 327.595 | 58.834 | 386.429 |
| 3 | LT 1-ph 3 W/L Angle x-arm 50x50x6 mm | 50x50x6 MS Angle (30+300+450+30+(150)) | 0.960 | 4.500 | 4.320 | 0.043 | 0.173 | 4.536 | 44.191 | 8.000 | 200.450 | 6.014 | 4.406 | 202.057 | 36.288 | 238.345 |
| 4 | LT 1-ph 2 W/L Angle x-arm 50x50x6 mm | 50x50x6 MS Angle (30+450+30+(100)) | 0.610 | 4.500 | 2.745 | 0.027 | 0.110 | 2.882 | 44.191 | 8.000 | 127.370 | 3.821 | 2.800 | 128.391 | 23.058 | 151.449 |
| 5 | Back clamp for 8.0m PSCC Pole | 50x6 MS Flat (60+75+180+75+60 mm) | 0.450 | 2.400 | 1.080 | 0.011 | 0.043 | 1.134 | 44.191 | 8.000 | 50.113 | 1.503 | 1.102 | 50.514 | 9.072 | 59.586 |
| 6 | Back clamp for 9.1m PSCC Pole | 50x6 MS Flat (60+125+200+125+60 mm) | 0.570 | 2.400 | 1.368 | 0.014 | 0.055 | 1.436 | 44.191 | 8.000 | 63.476 | 1.904 | 1.395 | 63.985 | 11.491 | 75.476 |
| 7 | Stay clamp set for 8.0m PSCC Pole | 50x6 MS Flat 2*(60+32+180+32+60 mm) | 0.728 | 2.400 | 1.747 | 0.017 | 0.070 | 1.835 | 44.191 | 8.000 | 81.071 | 2.432 | 1.782 | 81.721 | 14.676 | 96.398 |
| 8 | Stay clamp set for 9.1m PSCC Pole | 50x6 MS Flat 2*(60+60+200+60+60 mm) | 0.880 | 2.400 | 2.112 | 0.021 | 0.084 | 2.218 | 44.191 | 8.000 | 97.998 | 2.940 | 2.154 | 98.784 | 17.741 | 116.524 |
| 9 | LT MS Stay set without clamps and base plate | Anchor rod + bow (16 mm dia) ((1760+2x22/7x40)+(2x450+22/7x20/2+22/7x1/4x20x2) mm) | 2.974 | 1.580 | 4.699 | 0.047 | 0.188 | 4.934 | 44.191 | 8.000 | 218.032 | 6.541 | 4.793 | 219.781 | 39.471 | 457.827 |
| | | Eye bolt((450-40)+(22/7xD) mm) | 0.536 | 2.470 | 1.324 | 0.013 | 0.053 | 1.390 | 44.191 | 8.000 | 61.431 | 1.843 | 1.350 | 61.923 | 11.121 | |
| | | MS Channel 75x40 (180mm) | 0.180 | 6.800 | 1.224 | 0.012 | 0.049 | 1.285 | 44.191 | 8.000 | 56.794 | 1.704 | 1.248 | 57.250 | 10.282 | |
| | | Square washer @ ` 22/each | | | | | | | | 8.000 | | | | 22.000 | 0.000 | |
| | | Hexagonal nut 20 mm dia @ ` 18/each | | | | | | | | 8.000 | | | | 36.000 | 0.000 | |
| 10 | LT Top fitting with clamp | MS Angle 50x50x6 (150 mm) | 0.150 | 4.500 | 0.675 | 0.007 | 0.027 | 0.709 | 44.191 | 8.000 | 31.320 | 0.940 | 0.689 | 31.571 | 5.670 | 215.228 |
| | | MS Channel 75x40x6 (65 mm) | 0.065 | 6.800 | 0.442 | 0.004 | 0.018 | 0.464 | 44.191 | 8.000 | 20.509 | 0.615 | 0.451 | 20.673 | 3.713 | |
| | | MS Flat 50x6 (580 mm) | 1.160 | 2.400 | 2.784 | 0.028 | 0.111 | 2.923 | 44.191 | 8.000 | 129.179 | 3.875 | 2.840 | 130.215 | 23.386 | |
| 11 | LT 3-ph 4 W/LT-raiser with 2sets of stay clamps | MS Channel 75x40 (1.5 mts.) | 1.500 | 9.200 | 13.800 | 0.138 | 0.552 | 14.490 | 44.191 | 8.000 | 640.328 | 19.210 | 14.076 | 645.461 | 115.920 | 1356.749 |
| | | MS Angle 50x50x6 (30+300+450+300+30+(200)) | 1.310 | 4.500 | 5.895 | 0.059 | 0.236 | 6.190 | 44.191 | 8.000 | 273.531 | 8.206 | 6.013 | 275.724 | 49.518 | |
| | | 50x6 MS Flat 4*(60+60+270+60+60 mm) | 2.040 | 2.400 | 4.896 | 0.049 | 0.196 | 5.141 | 44.191 | 8.000 | 227.177 | 6.815 | 4.994 | 228.998 | 41.126 | |
| 12 | LT Side arm with Strut with back clamps and strut clamps | MS Channel 75x40 | 1.500 | 6.800 | 10.200 | 0.102 | 0.408 | 10.710 | 44.191 | 8.000 | 473.286 | 14.199 | 10.404 | 477.080 | 85.680 | 1192.224 |
| | | MS Angle 50x50x6 | 1.650 | 4.500 | 7.425 | 0.074 | 0.297 | 7.796 | 44.191 | 8.000 | 344.524 | 10.336 | 7.574 | 347.286 | 62.370 | |
| | | Back clamp with 50x6 MS Flat (60+130+270+130+60 mm) | 0.640 | 2.400 | 1.536 | 0.015 | 0.061 | 1.613 | 44.191 | 8.000 | 71.271 | 2.138 | 1.567 | 71.843 | 12.902 | |
| | | Stay clamp set with 50x6 MS Flat 2*(60+60+270+60+60 mm) | 1.020 | 2.400 | 2.448 | 0.024 | 0.098 | 2.570 | 44.191 | 8.000 | 113.589 | 3.408 | 2.497 | 114.499 | 20.563 | |