



SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA. LIMITED
6-1-50, Corporate Office, Mint Compound, Hyderabad - 63

O/o Chief General Manager Projects,
4th Floor, Corporate Office, TSSPDCL,
Mint Compound, Hyderabad -500 004.

Memo No.CGM(P)/SE(P)/DE(R-APDRP)/F. /D.No.1984/2017, Dt:08-11-2017.

Sub: Projects – Cost Data for the year 2017-18- Reg.

Ref: 1. Note approved by the Chairman and managing Director/TSSPDCL, Dt:26.10.2017

*_*_*

The approved cost-data for the FY 2017-18 is herewith enclosed and the soft copy is placed in 202/cgm-proj/DE-RE/Cost-dataFY17-18.

Hence, it is requested to adopt the rates with effect from 01.07.2017. Further, cost data for FY2017-18 is also available in the TSSPDCL website ie., www.tssouthernpower.com

Encls: As above.

Sd/-
Chief General Manager / Projects

To:

The Superintending Engineer/ Operation/
The Superintending Engineer/ Master Plan/
The Superintending Engineer/SCADA/

Copy communicated to:

The Chief General Manager/Operation/
The Chief General Manager/Master Plan/
All the Chief General Managers / Corporate office / TSSPDCL

Copy submitted to

The Director (Projects & IT)/ TSSPDCL, Corporate Office, Mint Compound, Hyderabad.
The Director (Finance)/TSSPDCL, Corporate Office, Mint Compound, Hyderabad.

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COST DATA OF CENTRALISED MATERIALS FOR R.E. AND DISTRIBUTION WORKS

| Sl. No | Name of the Material | P.O. No. | Unit | Rupees | EX-Works | F&I | Basic Price | GST | % GST | SAP Code No. |
|--|--|----------------------------------|------|-----------------------|--------------|------------|--------------|------------|-------|--------------|
| 1 | 2 | 3 | 4 | 5 | | | | | | |
| SUBHEAD - I : SUPPORTS AND FIXTURES, IRON, STEEL AND CEMENT | | | | | | | | | | |
| 1 (a) | RS Joists 175 x 85 mm. | PM-946/16, dt. 03-01-2017 | MT | 41,851.06 | 35,467.00 | - | 35,467.00 | 6,384.06 | 18 | MST00032 |
| (b) | RS Joists 150 x 150 mm. | PM-946/16, dt. 03-01-2017 | MT | 44,052.94 | 37,333.00 | | 37,333.00 | 6,719.94 | 18 | MST00029 |
| (c) | Spun Pole 9.5 m. | | - | Not procured recently | | | - | | | |
| 2 | MS Channel 100 x 50. | PM-946/16, dt. 03-01-2017 | MT | 40,392.58 | 34,231.00 | | 34,231.00 | 6,161.58 | 18 | MST00012 |
| 3 | MS Channel 75 x 40 mm | PM-946/16, dt. 03-01-2017 | MT | 36,894.66 | 31,266.66 | | 31,266.66 | 5,628.00 | 18 | MST00013 |
| 4 | MS Angle 65 x 65 x 6 mm. | PM-946/16, dt. 03-01-2017 | MT | 39,841.83 | 33,764.26 | | 33,764.26 | 6,077.57 | 18 | MST00003 |
| 5 | MS Angle 50 x 50 x 6 mm | PM-946/16, dt. 03-01-2017 | MT | 41,465.09 | 35,139.91 | | 35,139.91 | 6,325.18 | 18 | MST00002 |
| 6 | MS Flat 75x 8 | PM-946/16, dt. 03-01-2017 | MT | 42,952.00 | 36,400.00 | | 36,400.00 | 6,552.00 | 18 | MST00015 |
| 7 | MS Flat 50 x 6 mm | PM-946/16, dt. 03-01-2017 | MT | 42,952.00 | 36,400.00 | | 36,400.00 | 6,552.00 | 18 | MST00014 |
| 8 | MS Rod 20 mm. | PM-946/16, dt. 03-01-2017 | MT | 41,300.00 | 35,000.00 | | 35,000.00 | 6,300.00 | 18 | MST00019 |
| 9 | MS Rod 16 mm. | PM-946/16, dt. 03-01-2017 | MT | 41,300.00 | 35,000.00 | | 35,000.00 | 6,300.00 | 18 | MST00018 |
| 10 | GI Stay wire 7/3.15 mm. | PM-1046/16, dt. 13-03-2017 | MT | 53,583.87 | 44,260.06 | 1,150.00 | 45,410.06 | 8,173.81 | 18 | WRS00006 |
| 11 | GI Stay wire 7/2.5 mm | PM-1046/16, dt. 13-03-2017 | MT | 57,021.05 | 47,172.92 | 1,150.00 | 48,322.92 | 8,698.13 | 18 | WRS00007 |
| 12 | GI wire 4 mm | Rpt PM-538/15, dt. 31-10-2015 | MT | 57,434.00 | 47,722.88 | 950.00 | 48,672.88 | 8,761.12 | 18 | WRS00005 |
| 13 | PSCC Pole (9.1 M) - 280 Kg WL | PM-889/16, dt. 19-10-2016 | Nos. | 3,775.94 | 2,350.00 | 599.95 | 2,949.95 | 825.99 | 28 | PLS00004 |
| 14 | PSCC Pole (8.0 M) - 140 Kg WL | PM-952/16, dt. 25-01-2017 | Nos. | 1,619.07 | 1,125.00 | 139.90 | 1,264.90 | 354.17 | 28 | PLS00001 |
| 15 | PSCC Poles (11 Mtrs) 365 Kgs | Rpt PM-948/16, dt. 07-01-2017 | Nos. | 7,496.59 | 4,500.00 | 1,356.71 | 5,856.71 | 1,639.88 | 28 | PLS00013 |
| SUBHEAD - II : INSULATORS AND HARDWARE | | | | | | | | | | |
| 1 | 33 KV Pin Insulators | | Nos. | Not procured recently | | | - | | | INS30001 |
| 2 | 33 KV GI Pins | PM-765/16, Dt: 21-05-2016 | Nos. | 154.37 | 123.90 | 6.92 | 130.82 | 23.55 | 18 | HWR00003 |
| 3 | 33 KV Post Insulators | PM-1074/16, Dt. 27-03-2017 | Sets | 898.13 | 761.13 | - | 761.13 | 137.00 | 18 | INS30004 |
| 4 | 33 KV Hard Ware Fittings (B&S) | PM-1298/17, Dt. 13-09-2017 | Sets | 185.25 | 150.00 | 6.99 | 156.99 | 28.26 | 18 | HWR00004 |
| 5 | 33 KV Polymer String Insulator (B&S) | PM-1312/17, Dt. 18-09-2017 | Nos. | 282.40 | 239.32 | - | 239.32 | 43.08 | 18 | INS30007 |
| 6 | 11KV Pin Insulator | PM-908/16, Dt: 16-11-2016 | Nos. | 42.53 | 36.04 | - | 36.04 | 6.49 | 18 | INS10001 |
| 7 | 11 KV GI Pin | PM-928/16, Dt: 15-12-2016 | Nos. | 58.41 | 46.00 | 3.50 | 49.50 | 8.91 | 18 | HWR00001 |
| 8 | 11 KV Post Insulator. | LOI issued | Nos. | 300.00 | 254.24 | - | 254.24 | 45.76 | 18 | INS10008 |
| 9 | 11 KV String Insulator (B&S). | PM-2385/07, Dt: 03-09-2007 | Nos. | 187.00 | - | - | - | - | | INS10004 |
| 10 | 11 KV String Insulator (C&T). | PM-2063/06, Dt. 26.08.06 | Nos. | 192.00 | - | - | - | - | | INS10002 |
| 11 | 11 KV String Hardware Fitting (C&T) | PM-1090/16, Dt: 31-03-2017 | Sets | 84.30 | 68.00 | 3.44 | 71.44 | 12.86 | 18 | HWR00002 |
| 12 | 11 KV Polymer String insulator (C&T) | PM-1258/17, Dt: 05-08-2017. | Nos. | 138.15 | 117.08 | - | 117.08 | 21.07 | 18 | INS10003 |
| 13 | 11 KV Solid Core Insulators | | Nos. | Not procured recently | | | - | | | INS10006 |
| 14 | LT Pin Insulators | PM-1208/17, Dt: 17-06-2017. | Nos. | 22.25 | 18.86 | - | 18.86 | 3.39 | 18 | INS00001 |
| 15 | LT GI Pins | PM-1233/17, Dt: 03-07-2017. | Nos. | 32.26 | 25.50 | 1.84 | 27.34 | 4.92 | 18 | HWR00015 |
| 16 | LT Shackle Insulators | PM-1210/17, Dt: 17-06-2017. | Nos. | 19.01 | 16.11 | - | 16.11 | 2.90 | 18 | INS00002 |
| 17 | LT Shackle Hardware (LT Metal Parts) | PM-1239/17, Dt: 03-07-2017. | Nos. | 35.79 | 28.50 | 1.83 | 30.33 | 5.46 | 18 | HWR00016 |
| 18 | HT Guy Insulators | LOI issued | Nos. | 53.10 | 45.00 | - | 45.00 | 8.10 | 18 | INS10005 |
| 19 | LT Guy Insulators | PM-981/16, Dt: 15-02-2017. | Nos. | 23.60 | 20.00 | - | 20.00 | 3.60 | 18 | INS00003 |
| SUBHEAD - III CONDUCTOR AND CABLES | | | | | | | | | | |
| 1 | ACSR Zebra Conductor | | | Not procured recently | | | - | | | CDR00011 |
| 2 | ACSR Panther Conductor (200 sq mm). | PM-1181/17, Dt: 07-06-2017 | KM | 140,665.63 | 116,585.00 | 2,623.16 | 119,208.16 | 21,457.47 | 18 | CDR00010 |
| 3 | 100 Sqmm AAA Conductor or 7/4.26 AAAC. | PM-1089/16, Dt: 31-03-2017 | KM | 50,489.25 | 41,700.00 | 1,087.50 | 42,787.50 | 7,701.75 | 18 | CDR00004 |
| 4 | 55 Sqmm AAA Conductor or 7/3.15 AAAC/RABBIT | PM-1093/17, Dt: 03-04-2017. | KM | 28,459.05 | 23,660.84 | 457.00 | 24,117.84 | 4,341.21 | 18 | CDR00003 |
| 5 | 34 Sqmm AAA Conductor or 7/2.50 AAAC/Wweasel | PM-1109/17, Dt: 13-04-2017 | KM | 18,754.18 | 15,565.00 | 328.37 | 15,893.37 | 2,860.81 | 18 | CDR00002 |
| SUBHEAD - III (A) LT AERIAL BUNCHED CABLE | | | | | | | | | | |
| 1 | 2 x 16+25 Sqmm Cable | PM-691/15, Dt: 26-03-2016 | KM | 31,456.20 | 23,970.16 | 605.00 | 24,575.16 | 6,881.04 | 28 | CBA00002 |
| 2 | 3 x 16+25 Sqmm Cable | PM-1049/16, Dt: 15-03-2017 | KM | 45,808.81 | 35,432.13 | 356.00 | 35,788.13 | 10,020.68 | 28 | CBA00003 |
| 3 | 3 x 70 + 1x16 +1x50 Sqmm XLPE AB, Cable | PM-1224/17, Dt: 30-06-2017 | KM | 177,139.42 | 137,069.17 | 1,321.00 | 138,390.17 | 38,749.25 | 28 | CBA00004 |
| SUBHEAD - III (B) 33 & 11 KV XLPE POWER CABLE | | | | | | | | | | |
| 1 | 33 KV 400 Sq.mm. | PM-1111/17, Dt: 15-04-2017 | KM | 2,347,045.04 | 1,711,912.00 | 121,716.94 | 1,833,628.94 | 513,416.10 | 28 | CBX30001 |
| 2 | 11 KV 3x300 sq.mm | PM-1127/17, Dt: 21-04-2017 | KM | 1,092,399.36 | 811,937.00 | 41,500.00 | 853,437.00 | 238,962.36 | 28 | CBX10008 |
| 3 | 11 KV 3x185 sq.mm. | PM-1144/17, Dt: 11-05-2017 | KM | 798,005.76 | 592,512.00 | 30,930.00 | 623,442.00 | 174,563.76 | 28 | CBA10007 |
| 4 | 11 KV 3x95 sq.mm | | | Not procured recently | | | - | | | CBX10005 |
| 5 | 11 KV 3x35 sq.mm | PM-4327, 22.04.2015 | KM | 317,665.84 | | | - | | | CBX10002 |

| Sl. No | Name of the Material | P.O. No. | Unit | Rupees | EX-Works | F&I | Basic Price | GST | % GST | SAP Code No. |
|--|--|-------------------------------|------|-----------------------|--------------|-----------|--------------|------------|-------|--------------|
| 1 | 2 | 3 | 4 | 5 | | | | | | |
| SUBHEAD - III (C)11 KV AB Cable (Aluminum) | | | | | | | | | | |
| 1 | 3x35+35 Sqmm. | | | Not procured recently | | | - | | | CBX10004 |
| 2 | 3x70+70 Sqmm. | | | Not procured recently | | | - | | | CBX10005 |
| 3 | 3x120+70 Sqmm. | | | Not procured recently | | | - | | | CBX10007 |
| 4 | 3x185+70 Sqmm. | PM-772/16, Dt.24-05-2016 | KM | 729,325.29 | 548,200.00 | 21,585.38 | 569,785.38 | 159,539.91 | 28 | CBX10006 |
| SUBHEAD - III (D) LT XLPE POWER CABLE | | | | | | | | | | |
| 1 | LT 3 ½ Cx300 sq.mm. | | | Not procured recently | | | - | | | CBX00016 |
| 2 | 3 ½ Cx185 sq.mm. | PM-1139/17, Dt.08-05-2017 | KM | 481,061.94 | 371,648.00 | 4,181.64 | 375,829.64 | 105,232.30 | 28 | CBX00015 |
| 3 | 3 ½ Cx95 sq.mm | | | Not procured recently | | | - | | | CBX00013 |
| 4 | 3 ½ Cx70 sq.mm | PM-1285/17, 04-09-2017 | KM | 200,309.70 | 154,751.00 | 1,740.95 | 156,491.95 | 43,817.75 | 28 | CBX00012 |
| 5 | 3 ½ Cx25 sq.mm | | | Not procured recently | | | - | | | CBX00010 |
| 6 | 1x120 sq mm | PM-1164/17, Dt.01-06-2017 | KM | 78,431.36 | 60,274.50 | 1,000.00 | 61,274.50 | 17,156.86 | 28 | CBX00004 |
| SUBHEAD - III (E) L.T.P.CONTROL CABLE | | | | | | | | | | |
| 1 | 2x2.5 sq.mm Copper | PM-662/15, Dt.25-02-2016 | KM | 40,022.45 | 31,002.54 | 265.00 | 31,267.54 | 8,754.91 | 28 | CBP00001 |
| 2 | 4x2.5 sq.mm Copper. | PM-1098/17, Dt.06-04-2017 | KM | 73,987.76 | 55,000.00 | 2,802.94 | 57,802.94 | 16,184.82 | 28 | CBP00002 |
| 3 | 10x2.5 sq.mm Copper. | PM-1226/17, Dt.30-06-2017 | KM | 155,595.67 | 121,001.00 | 558.12 | 121,559.12 | 34,036.55 | 28 | CBP00006 |
| SUBHEAD - IV : POWER TRANSFORMERS & TRANSFORMER OIL | | | | | | | | | | |
| 1 | 5 MVA PTR | PM-1170/17, Dt.06-06-2017 | Nos. | 3,078,550.84 | 2,590,002.00 | 18,939.39 | 2,608,941.39 | 469,609.45 | 18 | PTR00006 |
| 2 | 8 MVA PTR | PM-1124/17, Dt.21-04-2017 | Nos. | 4,559,641.66 | 3,845,070.00 | 19,033.10 | 3,864,103.10 | 695,538.56 | 18 | PTR00008 |
| 3 | 12.5 MVA PTR | PM-1211/17, Dt.17-06-2017 | Nos. | 6,450,154.94 | 5,428,233.00 | 38,000.00 | 5,466,233.00 | 983,921.94 | 18 | PTR00020 |
| 4 | Transformer Oil (New) - (IOCL MOU) | PM-592/15, Dt.04-12-2015 | L | 68.62 | 58.15 | 0.00 | 58.15 | 10.47 | | OF010006 |
| SUBHEAD - IV (A) : Distribution Transformers | | | | | | | | | | |
| 1 | 3-Phase 63 KVA (CSP) (Al) | PM-1161/17, Dt. 01-06-2017 | Each | 101,960.78 | 85,507.44 | 900.00 | 86,407.44 | 15,553.34 | 18 | DTC30004 |
| 2 | 3-Phase 100 KVA (CSP) (Al) | PM-904/16, Dt.08-11-2016 | Each | 123,969.34 | 103,890.00 | 1,168.76 | 105,058.76 | 18,910.58 | 18 | DTC30122 |
| 3 | 3-Phase 160 KVA (CSP) (Al) | PM-1012/16, Dt. 01-03-2017 | Each | 195,724.92 | 163,116.00 | 2,752.58 | 165,868.58 | 29,856.34 | 18 | DTC30125 |
| 4 | 3-Phase 315 KVA (CSP) (Al) | | Each | Not procuring | | | - | | | DTC30009 |
| 5 | 3-Phase 500 KVA (Con.) (Al) | | Each | Not procuring | | | - | | | DTC30110 |
| 6 | 3-Phase 25 KVA (CSP) (Al) | PM-1166/17, Dt: 02-06-2017 | Each | 54,720.80 | 45,999.00 | 374.56 | 46,373.56 | 8,347.24 | 18 | DTC30121 |
| 7 | 3-Phase 25KVA (CSP) (Copper) | | | Not procuring | | | - | | | DTC30011 |
| 8 | 3-Phase 16KVA (CSP) (Copper) | | | Not procuring | | | - | | | DTC30101 |
| 9 | 1-Ph 10kVA 11kV/250V (CSP) (Al) | | | Not procuring | | | - | | | DTC10002 |
| 10 | 1-Ph 10kVA 11kV/O3/250V (CSP) (Al) | | | Not procuring | | | - | | | DTC10003 |
| 11 | 1-Phase 15 KVA (CSP) (Copper) | PM-3546/11, 18.04.2012 | Each | 25868.57 | | | - | | | DTC10004 |
| 12 | 1-Phase 25 KVA (CSP) (Aluminium) | PM-1005/16, Dt: 20-02-2017 | Each | 49,185.04 | 41,125.28 | 556.96 | 41,682.24 | 7,502.80 | 18 | 0008-DTC1 |
| 13 | 3-Phase 315 KVA (CSP) Copper | PM-1270/17, Dt: 16-08-2017 | Each | 620,143.37 | 519,745.23 | 5,800.00 | 525,545.23 | 94,598.14 | 18 | DTC30123 |
| 14 | 3-Phase 500 KVA Copper (Conventional) | PM-1243/17, Dt: 13-07-2017 | Each | 809,267.60 | 681,054.00 | 4,766.00 | 685,820.00 | 123,447.60 | 18 | DTC30124 |
| SUBHEAD - V : SWITCH CONTROL AND PROTECTIVE GEAR | | | | | | | | | | |
| 1 | 33 KV 24V DC VCB with diff. prot. with CRPs & CTs ratio 400-200-100/1-1-1A | PM-578/15, Dt: 30-11-2015 | Nos. | 397,610.44 | 333,958.00 | 3,000.00 | 336,958.00 | 60,652.44 | 18 | BRK30031 |
| 2 | 33 KV 24V DC VCB with CRPs & CTs ratio 400-200-100/1-1A | PM-1275/17, Dt: 28-08-2017 | Nos. | 385,014.58 | 318,753.00 | 7,530.54 | 326,283.54 | 58,731.04 | 18 | BRK30019 |
| 3 | 11KV, 24V DC LV VCB with diff. prot. with CRPs & CTs of Ratio 600-300/01-01-0.577A | PM-596/15, Dt: 28-12-2015 | Nos. | 330,166.75 | 275,776.00 | 4,026.33 | 279,802.33 | 50,364.42 | 18 | BRK10009 |
| 4 | 11KV 24V LV VCBs with CTs & Panel (600-300/1-1A) | PM-689/15, Dt: 24-03-2016 | Nos. | 260,654.07 | 216,881.00 | 4,012.28 | 220,893.28 | 39,760.79 | 18 | BRK10014 |
| 5 | 11KV, 24V DC feeder VCBs with CRPs & CTs of Ratio 400-200-100/1-1A | PM-1182/17, Dt: 09-06-2017 | Nos. | 245848.7284 | 202050 | 6296.38 | 208,346.38 | 37502.3484 | 18 | BRK10015 |
| 6 | 33 KV Feeder CTs (400-200-100/1-1A) 0.5 class | | | Not procured recently | | | - | | | ITR30011 |
| 7 | 33 KV CTs 25/1 for HT Metering (0.5 class) | | | Not procured recently | | | - | | | ITR30029 |
| 8 | 33 KV CTs 50/1 for HT Metering (0.2 class) | | | Not procured recently | | | - | | | ITR30028 |
| 9 | 33 KV CTs 100/1 for HT Metering (0.2 class) | | | Not procured recently | | | - | | | ITR30027 |
| 10 | 33 KV CTs 200/1A for HT Metering (0.2 Class) | | | Not procured recently | | | - | | | ITR30026 |
| 11 | 33 KV CTs 25/1 for HT Metering (0.2 class) | | | Not procured recently | | | - | | | ITR30055 |
| 12 | 33 KV CTs 50/1 for HT Metering (0.5 class) | | | Not procured recently | | | - | | | ITR30004 |
| 13 | 33 KV CTs 100/1 for HT Metering (0.5 class) | | | Not procured recently | | | - | | | ITR30003 |
| 14 | 33 KV CTs 200/1 for HT Metering (0.5 class) | | | Not procured recently | | | - | | | ITR30002 |
| 15 | 33 KV CTs 400-200-100/1-1A for HT Metering (0.5 class) | | | Not procured recently | | | - | | | ITR30011 |

| Sl. No | Name of the Material | P.O. No. | Unit | Rupees | EX-Works | F&I | Basic Price | GST | % GST | SAP Code No. |
|---|--|-------------------------------------|------|---------------------------|---------------|----------|---------------|------------|-------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | | | | | | |
| 16 | 11 KV Feeder CTs (400-200-100/1-1A) (0.5 class) | | | Not procured recently | | | - | | | ITR10020 |
| 18 | 33 KV PT (Single Phase) 0.5 Class | PM-976/16, Dt.14-02-2017 | | 17,962.26 | 14,001.49 | 1,220.76 | 15,222.25 | 2,740.01 | 18 | ITR30061 |
| 19 | 33 KV PT (Single Phase) 0.2 Class | PM-661/16, Dt.20-02-2016 | | 21,004.00 | 17,400.00 | 400.00 | 17,800.00 | 3,204.00 | 18 | ITR30058 |
| 20 | 11 KV PT 3 Phase 0.5Class | PM-1192/17, Dt.15-06-2017 | | 18,167.48 | 14,975.00 | 421.17 | 15,396.17 | 2,771.31 | 18 | ITR10065 |
| 21 | 33 KV 800 Amps AB Switch | Rpt PM-1031/16, Dt.09-03-2017 | Nos. | 30,585.60 | 25,920.00 | - | 25,920.00 | 4,665.60 | 18 | ABS30004 |
| 22 | 11 KV 800 Amps (Conventional) AB Switch | PM-804/16, Dt.24-06-2016 | Nos. | 16,867.75 | 14,294.70 | - | 14,294.70 | 2,573.05 | 18 | ABS10015 |
| 23 | 11 KV 400 Amps (Conventional) SB AB Switch with post type porcelain insulators | PM-799/16, Dt.24-06-2016 | Nos. | 7,068.20 | 5,990.00 | - | 5,990.00 | 1,078.20 | 18 | ABS10008 |
| 24 | 11 KV 400 Amps AB Switch for single phasing | | Nos. | 12,026.69 | 10,192.11 | - | 10,192.11 | 1,834.58 | 18 | |
| 25 | 11 KV 200 Amps AB Switch (Tilting) round pipe | | Nos. | 6,212.70 | 5,265.00 | - | 5,265.00 | 947.70 | 18 | ABS10002 |
| 26 | 30 KV 10 KA Metal Oxide Lightning Arresters (station type) | PM-1227/17, Dt.30-06-2017 | Nos. | 3,321.37 | 2,769.72 | 45.00 | 2,814.72 | 506.65 | 18 | LAS00004 |
| 27 | 9 KV 10 KA Metal Single Phase Lightning Arrester (station type) | PM-619/16, Dt.18-01-2016 | Nos. | 2,014.80 | 1,659.93 | 47.53 | 1,707.46 | 307.34 | 18 | LAS00002 |
| 28 | 9 KV 5 KA Metal Oxide Lightning Arrester (DTR Class) | PM-963/16, Dt.02-02-2017 | Nos. | 1,087.46 | 891.00 | 30.58 | 921.58 | 165.88 | 18 | LAS00001 |
| 29 | 11 KV HG Fuse set with insulators | PM-871/16, Dt.14-09-2016 | Nos. | 1,843.04 | 1,561.90 | - | 1,561.90 | 281.14 | 18 | HGF10002 |
| 30 | 24 V, 40 AH Batteries with Chargers (Conventional) | PM-1231/17, Dt.03-07-2017 | Nos. | 25,600.00 | 20,000.00 | - | 20,000.00 | 5,600.00 | 28 | BAT00074 |
| 31 | 24 V, 40 AH SMF Batteries | | | Not procuring | | | - | | | BAT00025 |
| 32 | 24 V, 40 AH Chargers (Conventional) | PM-20/14, Dt.11-06-2014 | Nos. | 12,312.32 | 9,619.00 | - | 9,619.00 | 2,693.32 | 28 | BAT00075 |
| 33 | 12 V 42 AH SMF VRLA Batteries | PM-1025/16, Dt.08-03-2017 | Nos. | 3,520.00 | 2,750.00 | - | 2,750.00 | 770.00 | 28 | BAT00056 |
| 34 | 12 V, 80 AH SMF Batteries cells | | | Not procured recently | | | - | | | SBA10051 |
| 35 | 220V 80 AH Battery charger & DCDB | PM-1137/17, Dt.28-04-2017 | Nos. | 329,093.12 | 254,020.00 | 3,084.00 | 257,104.00 | 71,989.12 | 28 | BAT00072 |
| 36 | 220 V, 80 AH SMF Batteries | PM-1141/17, Dt.10-05-2017 | Nos. | 194,427.84 | 150,040.00 | 1,856.75 | 151,896.75 | 42,531.09 | 28 | BAT00023 |
| 37 | LT Switched capacitors | | - | | | | - | | | |
| (a) | 1*9 KVAR (Shunt) | | - | | | | - | | | CPT00027 |
| (b) | 1x10 KVAR | | - | | | | - | | | CPT00025 |
| 38 | 11 KV 2 MVAR Capacitor banks with associated equipment | | | Not procured in 2016-17 | | | - | | | |
| (a) | Type A | | Nos. | | | | - | | | CPT10009 |
| (b) | Type B with 40 Mtrs HT UG cable | | - | | | | - | | | |
| (c) | Type C (Indoor Type with HT UG cable) | | Nos. | | | | - | | | CPT10014 |
| 39 | Sectionalizers | Not procured (Procured exclusively) | | | | | - | | | |
| 40 | Auto - Reclosures | Not procured (Procured exclusively) | | | | | - | | | |
| 41 | 11 KV 3 Way RMU | | | Not procuring | | | - | | | |
| 42 | 11 KV 3 Way RMU (SF6) | PM-1178/17, Dt.07-06-2017 | Nos. | 480,787.46 | 371,115.20 | 4,500.00 | 375,615.20 | 105,172.26 | 28 | BRK00001 |
| 43 | 11 KV SF6 5 Way RMU | PM-1179/17, Dt.07-06-2017 | Nos. | 808,876.66 | 625,926.00 | 6,008.89 | 631,934.89 | 176,941.77 | 28 | BRK00002 |
| 44 | 33 KV Indoor twin feeder control panel | PM-579/15, Dt.30-11-2015 | Nos. | 418,324.95 | 324,299.00 | 2,517.37 | 326,816.37 | 91,508.58 | 28 | BRK30014 |
| 45 | Indoor type VCB with control panel (LV) | | | Not Procured in P&MM wing | | | - | | | |
| 46 | Indoor type VCB with control panel (feeder) | | | Not Procured in P&MM wing | | | - | | | |
| 47 | 33/11 KV Indoor switch gear (8 feeders) | PM-774/16, Dt.26-05-2016 | Nos. | 19,188,115.44 | 14,990,715.19 | - | 14,990,715.19 | ##### | 28 | BRK30020 |
| 48 | 33 KV CTs of ratio 600-300/1-1A 0.2S Class of Accuracy | PM-1116/17, Dt.17-04-2017 | Nos. | 22,566.91 | 18,400.00 | 724.50 | 19,124.50 | 3,442.41 | 18 | ITR30068 |
| 49 | 33 KV HG fuse set | | | Not Procured in P&MM wing | | | - | | | HGF30001 |
| 50 | 11KV switch Fuse unit (SFU) | | | Not Procured in P&MM wing | | | - | | | |
| 51 | 33KV switch Fuse unit (SFU) | | | Not Procured in P&MM wing | | | - | | | |
| 52 | 33KV 3-way RMU without VCB | | | Not Procured in P&MM wing | | | - | | | |
| 53 | 33KV 3-way RMU with VCB | PM-151/14, Dt.09-09-2014 | Nos. | 3349433.792 | 2589062 | 27683.15 | 2,616,745.15 | 732688.642 | 28 | BRK30024 |
| 54 | 11KV metering panel with CTS& PTS (Indoor) | | | Not Procured in P&MM wing | | | - | | | |
| 55 | 33KV metering panel with CTS&PTS (Indoor) | | | Not Procured in P&MM wing | | | - | | | |
| SUBHEAD - VI : METERS AND METERING EQUIPMENT | | | | | | | | | | |
| I | HT Metering | | | | | | - | | | |
| 1 | HT Trivector Meter of class 0.2S | PM-604/ 05-01-2016 | Nos. | 8,271 | 6,960 | 50 | 7,009.60 | 1,262 | 18 | 0031□MHT3 |
| 2 | HT Trivector Meter of class 0.5S | Rpt PM-3283/ 01-04-2011 | Nos. | 4,159.55 | 3,510.00 | 15.04 | 3,525.04 | 634.51 | 18 | MHT30022 |
| II | 11 KV Metering (11 KV CT PT Sets) | | | | | | - | | | |
| 1 | 10/5, 20/5, 40/5 (0.5 class) | | EA | 30,059.43 | 23,994.00 | 1,480.09 | 25,474.09 | 4,585.34 | 18 | ITR10006 ITR10007 |
| 2 | 5/5A (0.5 class) | | EA | 35,051.90 | 29,055.00 | 650.00 | 29,705.00 | 5,346.90 | 18 | ITR10057 |
| 3 | 60/5 & 100/5 (0.5 class) | | Nos. | 30,857.00 | 25,800.00 | 350.00 | 26,150.00 | 4,707.00 | 18 | ITR10042 ITR10043 |
| 4 | 40/5A,60/5,100/5A(0.2S CLASS) | PM-843/16, Dt.06-08-2016 | Nos. | 38,908.46 | 32,600.00 | 373.27 | 32,973.27 | 5,935.19 | 18 | ITR10047, ITR10046 |

| Sl. No | Name of the Material | P.O. No. | Unit | Rupees | EX-Works | F&I | Basic Price | GST | % GST | SAP Code No. |
|---|--|-------------------------------|------|---------------------------|--------------|----------|--------------|------------|-------|----------------------|
| 1 | 2 | 3 | 4 | 5 | | | | | | |
| 5 | 100/5A & 40/5A (0.2s class) | PM-843/16, Dt.06-08-2016 | Nos. | 38,908.46 | 32,600.00 | 373.27 | 32,973.27 | 5,935.19 | 18 | ITR10047 |
| 6 | 60/5A (0.2s class) | PM-843/16, Dt.06-08-2016 | EA | 38,908.46 | 32,600.00 | 373.27 | 32,973.27 | 5,935.19 | 18 | ITR10046 |
| 7 | 20/5A & 10/5A (0.2s class) | PM-843/16, Dt.06-08-2016 | EA | 37,611.51 | 31,500.00 | 374.16 | 31,874.16 | 5,737.35 | 18 | 0048-ITR100 |
| III LT Meters | | | | | | | | | | |
| 1 | LT Trivector meter (without CTs & Meter box) 50/5A (with DLMS) - Cat- C with IRDA port | PM-862/16, Dt.01-09-2016 | Nos. | 2,057.38 | 1,725.30 | 18.24 | 1,743.54 | 313.84 | 18 | MTE30041 |
| 2 | LT TVR Meters Cl. 0.5 (Including Box & 3 CTs) 200/5A for DTR Metering | PM-4291/ 14-03-2014 | Nos. | 6,272.75 | 5,216.25 | 99.64 | 5,315.89 | 956.86 | 18 | MTE30025 |
| 3 | LT TVR Meters Cl. 0.5S (Including Box & 3 CTs) 200/5A for AGL DTRs | PM-4291/ 14-03-2014 | Nos. | 6,676.44 | 5,558.08 | 99.92 | 5,658.00 | 1,018.44 | 18 | MTE30023 |
| 4 | LT TVR Meters Cl. 0.5S (Including Box & 3 CTs) 100/5A | PM-4291/ 14-03-2014 | Nos. | 6,492.07 | 5,401.61 | 100.14 | 5,501.75 | 990.32 | 18 | MTE30024 |
| IV Single phase electronic meter | | | | | | | | | | |
| 1 | 5-30A With PP box & IR port | | Nos. | 957.18 | 790.29 | 20.88 | 811.17 | 146.01 | 18 | MTE10018 |
| 2 | 5-30A Without PP Box & IR port | | Nos. | 714.31 | 600.30 | 5.05 | 605.35 | 108.96 | 18 | MTE10017 |
| V Three phase Electronic meters | | | | | | | | | | |
| 1 | 5-20 A with PP Box | | | Not Procured in 2016-17 | | | - | | | |
| 2 | 5-20 A without PP Box | | | Not Procured in 2016-17 | | | - | | | |
| 3 | 10-40 A with PP Box with trivector features | Rpt.PM-4060, Dt.02-07-2013 | Nos. | 2,001.47 | 1,675.80 | 20.36 | 1,696.16 | 305.31 | 18 | MTE30027 |
| 4 | 10-40 A without PP Box with trivector features | Rpt.PM-4060, Dt.02-07-2013 | Nos. | 1,655.17 | 1,389.15 | 13.54 | 1,402.69 | 252.48 | 18 | MTE30028 |
| 5 | LT pole mounted meter box (Type-A) | PM-4313/13, Dt.27-03-2014 | Nos. | 10,432.00 | 7,800.00 | 350.00 | 8,150.00 | 2,282.00 | 28 | BX300051 |
| 6 | LT pole mounted meter box (Type-B) | Rpt.PM-3567, Dt.08-05-2012 | Nos. | 6,437.72 | 4,802.00 | 227.47 | 5,029.47 | 1,408.25 | 28 | BX300047 |
| 7 | 3 - Phase meter box | | | Not Procured in 2016-17 | | | - | | | |
| VI Testing equipments & others | | | | | | | | | | |
| 1 | LT ERS Field Testing Kit (Along with accessories) | | | Not Procured in 2016-17 | | | - | | | |
| 2 | ERS Testing kits of accuracy 0.02 Class | Extn.PM-3357, 28.06.11 | Nos. | 1,467,694.62 | 1,242,809.00 | 1,000.00 | 1,243,809.00 | 223,885.62 | 18 | TEQ10029 |
| 3 | Semi Automatic Master Test benches of class 0.1 accuracy | PM-2627, Dt.03-10-2008 | Nos. | 2,320,506.58 | 1,959,881.00 | 6,650.00 | 1,966,531.00 | 353,975.58 | 18 | |
| 4 | Hand held computers | | | Not Procured in 2016-17 | | | - | | | OMT10026 |
| 5 | Integrated spot billing machine with GSM/GPRS Modems | PM-2627, Dt.03-10-2008 | Nos. | 10,802.02 | 9,154.25 | - | 9,154.25 | 1,647.77 | 18 | OMT10088 |
| 6 | CMRI | PM-4316, Dt.02-04-2014 | Nos. | 26,137.00 | 22,150.00 | - | 22,150.00 | 3,987.00 | 18 | OMT10015 |
| 7 | LT distribution box (SMC) | PM-1050/16, Dt.16-03-2017 | Nos. | 7,935.69 | 5,999.00 | 200.76 | 6,199.76 | 1,735.93 | 28 | BXS00047 |
| 8 | Special moulded Box for HT meter | | | Not Procured | | | - | | | |
| SUBHEAD - VII : VCB & PTR spares | | | | | | | | | | |
| 1 | IDMT (3 O/L+E/L) Numerical Relay 24V DC | PM-931/16, Dt. 16-12-2016 | Nos. | 8,841.09 | 6,800.00 | 107.10 | 6,907.10 | 1,933.99 | 28 | SBR00177 |
| 2 | IDMT Static Relay (3 O/L+1E/L) 220 V DC Relays | PM-931/16, Dt. 16-12-2016 | Nos. | 8841.088 | 6800 | 107.1 | 6,907.10 | 1933.988 | 28 | SBR00216 |
| 3 | 11KV Breaker, Single Pole Assembly (Complete Set) | | | Not Procured in P&MM wing | | | - | | | |
| 4 | 33KV Breaker, Single Pole Assembly (Complete Set) | | | Not Procured in P&MM wing | | | - | | | |
| 5 | Driving Mechanism (Complete Set) | | | Not Procured in P&MM wing | | | - | | | |
| 6 | 11KV Breaker, Vacuum interrupter | | | Not Procured in P&MM wing | | | - | | | SBR00010 |
| 7 | 33KV Breaker, Vacuum interrupter | | | Not Procured in P&MM wing | | | - | | | SBR00014 |
| 8 | Trip / Close coil (Complete Set) | | | Not Procured in P&MM wing | | | - | | | SBR00048 |
| 9 | 11KV VCB Bushing | | | Not Procured in P&MM wing | | | - | | | MIS10004 |
| 10 | 33KV VCB Bushing | | | Not Procured in P&MM wing | | | - | | | MIS10001 |
| 11 | Bucholz Relay | | | Not Procured in P&MM wing | | | - | | | - |
| 12 | PTR winding & oil temperature meters | | | Not Procured in P&MM wing | | | - | | | STR10183 STR10184 |
| 13 | 250 W SV Lamps (Complete set) | | | Not Procured in P&MM wing | | | - | | | SLA10069 |
| 14 | 150 W SV Lamps (Complete set) | | | Not Procured in P&MM wing | | | - | | | SLA10074 |
| 15 | 400 W metal haloid | | | Not Procured in P&MM wing | | | - | | | - |
| Rates are as per prevailing market rates | | | | | | | | | | |
| VIII COMPUTERS/LAPTOPS | | | | | | | | | | |
| 1 | Desktop Computers(Make HP) | PM-923/16, Dt.08-12-2016 | Nos. | 43,022.80 | 36,460.00 | - | 36,460.00 | 6,562.80 | 18 | CAH00011 |
| 2 | Desktop Computers(Make DELL) | PM-807/16, Dt. 04-07-2016 | Nos. | 44,053.35 | 37,333.35 | - | 37,333.35 | 6,720.00 | 18 | CAH00011 |
| 3 | Desktop Computers(Make ACER) | PM-238/14, Dt. 22-12-2014 | Nos. | 43,660.00 | 37,000.00 | - | 37,000.00 | 6,660.00 | 18 | CAH00011 |
| 4 | Printers Dot Matrix Printers: Epson LQ - 300 (80 Column) | PM-3485, Dt. 29-12-2011 | Nos. | 11,392.00 | 8,900.00 | - | 8,900.00 | 2,492.00 | 28 | CAH00016 |
| 5 | Dot Matrix Printers: Epson LQ - 1150+II Pin:24, Column 136, cpi:300;(136 Column) | PM-2737, Dt: 29-04-2009 | Nos. | 12,339.69 | 9,640.38 | - | 9,640.38 | 2,699.31 | 28 | CAH00003 |

| Sl. No | Name of the Material | P.O. No. | Unit | Rupees | EX-Works | F&I | Basic Price | GST | % GST | SAP Code No. |
|-------------------------|--|-------------------------------|------|---------------|--------------|----------|--------------|------------|-------|----------------------|
| 1 | 2 | 3 | 4 | 5 | | | | | | |
| 6 | Laser Jet Printer | PM-893/16, Dt: 26-10-2016 | Nos. | 7,033.91 | 5,495.24 | - | 5,495.24 | 1,538.67 | 28 | CAH00004 |
| 7 | i. 1.0 KVA UPS with 2 Hrs. online Backup | PM-2731, Dt: 23-04-2009 | Nos. | 40,495.71 | 31,637.27 | - | 31,637.27 | 8,858.44 | 28 | CAH00052 |
| 8 | ii. 2.0 KVA UPS with 2 Hrs. online Backup | PM-2731, Dt: 23-04-2009 | Nos. | 70,059.64 | 54,734.09 | - | 54,734.09 | 15,325.55 | 28 | CAH00053 |
| 9 | iii. 3.0 KVA UPS with 2 Hrs. online Backup | PM-2731, Dt: 23-04-2009 | Nos. | 90,526.98 | 70,724.20 | - | 70,724.20 | 19,802.78 | 28 | CAH00054 |
| 10 | Fax Machine Model: Samsung SCX 451 F/XIP digital copier multifunction printer with Fax (DGS&D rate contract) | PM-3217, Dt: 21-12-2010 | Nos. | 16,156.16 | 12,622.00 | - | 12,622.00 | 3,534.16 | 28 | OEE10016 |
| 11 | Transformer winding resistance kit | PM-2729, Dt: 23-04-2009 | Nos. | 121,540.00 | 100,000.00 | 3,000.00 | 103,000.00 | 18,540.00 | 18 | TEQ10033 |
| 12 | Transformer Turns Ratio Test Kit | PM-2729, Dt: 23-04-2009 | Nos. | 133,340.00 | 110,000.00 | 3,000.00 | 113,000.00 | 20,340.00 | 18 | TEQ10034 |
| 13 | Tan Delta and Capacitance Test Kit | PM-2729, Dt: 23-04-2009 | Nos. | 572,300.00 | 480,000.00 | 5,000.00 | 485,000.00 | 87,300.00 | 18 | TEQ10035 |
| 14 | Transformer Oil Resistivity Test kit | PM-2729, Dt: 23-04-2009 | Nos. | 357,540.00 | 300,000.00 | 3,000.00 | 303,000.00 | 54,540.00 | 18 | TEQ10036 |
| 15 | Supply & fixing of Mini Water Cooler Dispenser | | - | | | | - | | | |
| 16 | Digital Earth Clamp Testers | PM-3180, Dt: 06-10-2010 | Nos. | 63,592.56 | 53,892.00 | - | 53,892.00 | 9,700.56 | 18 | TEQ10073 |
| 17 | High Voltage Detectors | PM-3180, Dt: 06-10-2010 | Nos. | 17,211.07 | 14,585.65 | - | 14,585.65 | 2,625.42 | 18 | TEQ10074 |
| 18 | 11KV LV VCBs with CTs and panel (CTs ratio 600-300/1-1A) | | | | | | - | | | |
| 19 | 9KV 10KA LAS (Line type) Porcelain | PM-221/28-11-2014 | Nos. | 1,055.97 | | | - | | | LAS00001 |
| 20 | Three phase portable analyzers | PM-2833, Dt: 10-11-2009 | Nos. | 404,740.00 | 340,000.00 | 3,000.00 | 343,000.00 | 61,740.00 | 18 | TEQ10067 |
| 21 | Circuit Breaker Time interval Meter with PC download so | PM-2834, Dt: 10-11-2009 | Nos. | 88,500.00 | 75,000.00 | - | 75,000.00 | 13,500.00 | 18 | TEQ10068 |
| 22 | Dissolved Gas Analyzer(DGA) with water PPM kit(Model: Transport-V) | PM-2835, Dt: 10-11-2009 | Nos. | 3,148,240.00 | 2,668,000.00 | - | 2,668,000.00 | 480,240.00 | 18 | TEQ10069 |
| 23 | RGGVY SMC Meter Boxes along with accessories | PM-3227, Dt: 07-01-2011 | Nos. | 374.89 | 280.00 | 12.88 | 292.88 | 82.01 | 28 | BXS00048 |
| 24 | RGGVY Polycarbonate Meter Boxes along with accessor | PM-3076, Dt: 06-09-2010 | Nos. | 305.92 | 239.00 | - | 239.00 | 66.92 | 28 | BXS00049 |
| 25 | Digital Clamp Meters | PM-3286, Dt: 06-04-2011 | Nos. | 2,745.57 | 2,270.00 | 56.75 | 2,326.75 | 418.82 | 18 | OMTI0050 |
| 26 | Single phase Variacs | PM-3286, Dt: 06-04-2011 | Nos. | 15,723.50 | 13,000.00 | 325.00 | 13,325.00 | 2,398.50 | 18 | TEQ10075 |
| 27 | Electronic Insulated Testers/Meggors | PM-3286, Dt: 06-04-2011 | Nos. | 79,461.20 | 65,690.00 | 1,650.00 | 67,340.00 | 12,121.20 | 18 | TEQ10076 |
| 28 | Ratio Test Kits | PM-3287, Dt: 06-04-2011 | Nos. | 105,374.00 | 87,300.00 | 2,000.00 | 89,300.00 | 16,074.00 | 18 | TEQ10079 |
| 29 | Capacitance Meters | PM-3287, Dt: 06-04-2011 | Nos. | 30,975.00 | 24,250.00 | 2,000.00 | 26,250.00 | 4,725.00 | 18 | TEQ10080 |
| 30 | Portable Relay Test Kits | PM-3288, Dt: 06-04-2011 | Nos. | 531,000.00 | 450,000.00 | - | 450,000.00 | 81,000.00 | 18 | TEQ10077 |
| 31 | Time interval Meter | PM-3289, Dt: 06-04-2011 | Nos. | 20,650.00 | 17,500.00 | - | 17,500.00 | 3,150.00 | 18 | TEQ10078 |
| 32 | Earth Tester (0-20-200-2000Ω) | PM-3290, Dt: 06-04-2011 | Nos. | 4,743.60 | 3,920.00 | 100.00 | 4,020.00 | 723.60 | 18 | OMTI0074 |
| 33 | Primary Injection Kit | PM-3291, Dt: 06-04-2011 | Nos. | 90,034.00 | 75,300.00 | 1,000.00 | 76,300.00 | 13,734.00 | 18 | TEQ10081 |
| 34 | 56 W LED Light Fixtures (equivalent to 150 W HPSV light fixtures) | | Nos. | Not procured | | | - | | | SLA10102 |
| 35 | 33KV, 3CX400 Sq.mm XLPE UG Cable Straight through heat shrinkable jointing kits | PM-968 /16, Dt:09-02-2017 | Nos. | 26,035.60 | 21,738.00 | 326.07 | 22,064.07 | 3,971.53 | 18 | SCB10113 |
| 36 | Integrated Spot Billing Machines Without GSM/GPRS Modems | PM-4181, Dt:12-11-2013 | Nos. | 7,265.00 | | | - | | | OMTI0083 |
| 37 | 9KV 10KA LAS (Line type) Polymer | | Nos. | | | | - | | | LAS00009 |
| Additional Items | | | | | | | | - | | |
| 1 | Spun Pole 12Mtrs/300 Kgs. | | Nos. | | | | - | | | PLS00008 |
| 2 | Spun Poles 12.9 Mtrs/350 Kgs | | Nos. | | | | - | | | |
| 3 | 11KV 400 Amps (Conventional) DB AB Switch with Porcelain type insulators | PM-953/16, Dt:25-01-2017 | Nos. | 12,026.69 | 10,192.11 | - | 10,192.11 | 1,834.58 | 18 | ABS510009 |
| 4 | 11 KV 200 Amps AB Switch (Tilting) Square pipe (a) Polymer Type | Rpt PM-1041/16, Dt:09-03-2017 | Nos. | 6,212.70 | 5,265.00 | - | 5,265.00 | 947.70 | 18 | ABS10002 |
| 5 | 11 KV HG Fuse set without solid core insulator | | Nos. | | | | - | | | HGF10003 |
| 6 | 33 KV Solid Core Insulators | | Nos. | | | | - | | | INS30002 |
| 7 | 11 KV Polymer Pin Insulators along with Pins | PM-157/12, Dt:25-09-2014 | Nos. | 184.58 | | | - | | | INS10009 |
| 8 | 11 KV Solid Core Insulators for HG Fuses | | Nos. | | | | - | | | INS10007 |
| 9 | LT Capacitor 1x10KVAR 2x10KVAR | | | | | | - | | | CPT00025 CPT00026 |
| 10 | LT Shunt Capacitor 1x9 KVAR - i) Supply, ii) Erection & Commissioning 2x9 KVAR - i) Supply, ii) Erection & Commissioning | | | | | | - | | | CPT00027 CPT00028 |
| 11 | 33KV / 11KV indoor switch gear (8 feeders) | PM-187.24.11.14 | Nos. | 16,869,455.87 | | | - | | | BRK 30020 |

| Extra Items | | | | | | | | | | | |
|-------------|--|--------------------------------|------|---------------|--------------|-----------|--------------|------------|------|---------------|----------|
| Sl. No | Name of the Material | P.O. No. | Unit | Rupees | Ex works | F&I | Basic Price | GST Rs. Ps | GST% | SAP Code No.. | |
| 1 | 11 KV Solid Core Insulator for HG Fuses | Rpt. & Extn. PM-120/16-08-2014 | Nos. | | | | | | | INS10007 | |
| 2 | 33 KV CTs 100/1 for HT Metering (0.2 class) | PM-184/18-10-2014 | Nos. | 17,759.98 | 13,470.00 | 1,580.83 | 15,050.83 | 2,709.15 | 18 | ITR30054 | |
| 3 | 11 KV CTs 900-450/1-1-0.577A, 0.2 Class (with Diff. Core) | PM-1712/20-06-2017 | Nos. | 22,943.27 | 19,043.45 | 400.00 | 19,443.45 | 3,499.82 | 18 | ITR10064 | |
| 4 | 33 KV Single Phase PTs, 10VA Burden, 0.2 Class. | PM-976/14-02-2017 | Nos. | 17,962.26 | 14,001.49 | 1,220.76 | 15,222.25 | 2,740.01 | 18 | ITR30061 | |
| 5 | 11 KV 24V DC LV VCBs with CRPS & CTs of ratio 600-300/1-1A | PM-689/24-03-2016 | Nos. | 260,652.89 | 216,880.00 | 4,012.28 | 220,892.28 | 39,760.61 | 18 | BRK10014 | |
| 6 | 33 KV CTs of ratio 400-200/1-1A, 0.2 Class | PM-993/18-02-2017 | Nos. | 22,273.68 | 18,589.00 | 287.00 | 18,876.00 | 3,397.68 | 18 | ITR30060 | |
| 7 | 11KV 3Ph PTs, 50VA Burden, 0.2 Class | PM-1192/15-06-2017 | Nos. | 18,167.48 | 14,975.00 | 421.17 | 15,396.17 | 2,771.31 | 18 | ITR10065 | |
| 8 | 11KV CTs 600-300/1-1-0.577A, 0.577A, 0.2 Class | PM-1116/17-04-2017 | Nos. | 22,566.91 | 18,400.00 | 724.50 | 19,124.50 | 3,442.41 | 18 | ITR10066 | |
| 9 | 11KV CTs 600-300/1-1A, 0.2 Class | PM-668/27-02-2017 | Nos. | 16,468.75 | 12,996.00 | 960.57 | 13,956.57 | 2,512.18 | 18 | ITR10067 | |
| 10 | 24V AC/DC Non- Directional Numerical 30/C + 1E/F Relays (IDMTL with Highest) 1A & 5A(Multiple Secondary option) | PM-932/16-12-2016 | Nos. | 8,845.94 | 6,775.10 | 135.79 | 6,910.89 | 1,935.05 | 28 | SBR00177 | |
| 11 | 220V AC/DC Non- Directional Numerical 30/C + 1E/F Relays(IDMTL with Highest) 1A & 5A(Multiple Secondary option) | PM-931/16-12-2016 | Nos. | 8,841.09 | 6,800.00 | 107.10 | 6,907.10 | 1,933.99 | 28 | SBR00216 | |
| 12 | 33KV 24V DC HV VCBs, CTs(3 core) and CRPs | PM-578/30-11-2015 | Nos. | 397,610.44 | 333,958.00 | 3,000.00 | 336,958.00 | 60,652.44 | 18 | BRK30031 | |
| 13 | 11KV CTs 400-200-100/1-1A, 0.2 Class | PM-958/28-01-2017 | Nos. | 15,104.00 | 12,400.00 | 400.00 | 12,800.00 | 2,304.00 | 18 | ITR10062 | |
| 14 | 33KV 220V DC VCBs CTs, CRPs & Differential IED Relay | PM-1245/25-07-2017 | Nos. | 492,456.53 | 412,360.00 | 4,976.04 | 417,336.04 | 75,120.49 | 18 | BRK30027 | |
| 15 | 33KV 220V DC VCBs CTs & CRPs & Prot. IED Relay | | | Not procuring | | | | | | | BRK30028 |
| 16 | 33KV 220V DC VCBs with CTs 400-200-100/1-1A (W/o CRPS) | PM-542/04-11-2015 | Nos. | 307,652.43 | 249,764.00 | 10,958.40 | 260,722.40 | 46,930.03 | 18 | BRK30029 | |
| 17 | 11KV,220V LV VCBs CTs & CRPs and with Differential and Prot. IED Relays | PM-259/24-01-2015 | Nos. | 394,694.39 | 326,949.75 | 7,537.02 | 334,486.77 | 60,207.62 | 18 | BRK10020 | |
| 18 | 11KV, 220V fed VCBs with CTs & CRPs and IED Relays | PM-1172/06-06-2017 | Nos. | 319,360.57 | 266,750.00 | 3,894.55 | 270,644.55 | 48,716.02 | 18 | BRK10019 | |
| 19 | HT Trivector Meter 33/110V 25/1A 30min 0.2S Class | PM-69/16-07-2014 | Nos. | 8,238.38 | 6,952.00 | 29.68 | 6,981.68 | 1,256.70 | 18 | MHT30031 | |
| 20 | HT Trivector Meter 33/110V 50/1A 30min 0.2S Class | PM-69/16-07-2014 | Nos. | 8,238.38 | 6,952.00 | 29.68 | 6,981.68 | 1,256.70 | 18 | MHT30032 | |
| 21 | HT Trivector Meter 33/110V 100/1A 30min 0.2S Class | PM-1294/08-09-2017 | Nos. | 5,575.50 | 4,705.00 | 20.00 | 4,725.00 | 850.50 | 18 | MHT30028 | |
| 22 | HT Trivector Meter 33/110V 100/1A 15min 0.2S Class | PM-1294/08-09-2017 | Nos. | 5,575.50 | 4,705.00 | 20.00 | 4,725.00 | 850.50 | 18 | MHT30027 | |
| 23 | HT Trivector Meter 33/110V 200/1A 15min 0.2S Class | PM-1294/08-09-2017 | Nos. | 5,575.50 | 4,705.00 | 20.00 | 4,725.00 | 850.50 | 18 | MHT30033 | |
| 24 | HT Trivector Meter 33/110V 10/5A 30min 0.2S Class | PM-69/16-07-2014 | Nos. | 8,238.38 | 6,952.00 | 29.68 | 6,981.68 | 1,256.70 | 18 | MHT30057 | |
| 25 | HT Trivector Meter 33/110V 50/1A 30min 0.2S Class | PM-69/16-07-2014 | Nos. | 8,238.38 | 6,952.00 | 29.68 | 6,981.68 | 1,256.70 | 18 | MHT30058 | |
| 41 | LT CT Meters with DLMs (i) Protocol (Cat-A) 200/5A, 400/5A CT ratio along with TTB in PP Box | | | - | | | | - | | | |
| 42 | 200/5A | PM-1288/06-09-2017 | Nos. | 5,923.60 | 4,900.00 | 120.00 | 5,020.00 | 903.60 | 18 | MTE30026 | |
| 43 | 400/5A | PM-319/07-03-2015 | Nos. | 6,706.90 | 5,454.00 | 229.81 | 5,683.81 | 1,023.09 | 18 | MTE30036 | |
| 44 | 1Ph meter 10-60A Meter with PP Box (Net meters) | PM-1217/27-07-2017 | Nos. | 1,302.72 | 1,057.62 | 46.38 | 1,104.00 | 198.72 | 18 | MTN10001 | |
| 45 | 3 Ph meter 10-60A Meter with PP Box (Net Meters) | PM-1331/05-10-2017 | Nos. | 3,091.60 | 2,570.00 | 50.00 | 2,620.00 | 471.60 | 18 | MTN30001 | |
| 46 | HT ERS Field Testing Kit (Along with accessories) | | | - | | | | - | | | |
| 47 | ERS Testing kits of accuracy 0.05 Class | PM-328/18-03-2015 | Nos. | 1,407,469.10 | 1,187,427.00 | 5,343.42 | 1,192,770.42 | 214,698.68 | 18 | TEQ10087 | |
| 48 | 3-Phase 63 KVA DTR (CSP) with 3-star rating | PM-196/30-10-2014 | Each | - | | | | - | | DTC30004 | |
| 49 | 33KV, 3x400 Sq.mm Heat Shrinkable Indoor End Termination kits | PM-1213/21-06-2017 | Each | 2,776.39 | 2,306.74 | 46.13 | 2,352.87 | 423.52 | 18 | SCB10115 | |

| Sl. No | Name of the Material | P.O. No. | Unit | Rupees | Ex works | F&I | Basic Price | GST Rs. Ps | GST% | SAP Code No.. |
|--------|---|-----------------------------|------|------------|------------|----------|-------------|------------|------|---------------|
| 50 | 33KV, 3x400 Sq.mm Heat Shrinkable Outdoor End Termination kits | PM-1215/21-06-2017 | Each | 3,181.43 | 2,643.26 | 52.87 | 2,696.13 | 485.30 | 18 | SCB10114 |
| 51 | Fake Note Detection and Loose Note Counting Machines | PM-875/17-09-2016 | Each | 7,866.67 | 6,666.67 | 0.00 | 6,666.67 | 1,200.00 | 18 | TS100191 |
| 52 | Agricultural Load Management Units (ALMUs) | PM-34/19-06-2014 | Each | 6,742.85 | 5,714.28 | 0.00 | 5,714.28 | 1,028.57 | 18 | |
| 53 | HP Probook 440G1 model Laptops with Universal Prop Cable | PM-97/31-07-2014 | Each | 49,279.04 | 41,761.90 | 0.00 | 41,761.90 | 7,517.14 | 18 | |
| 54 | Line Matrix Printers (500 LPM) Model : LIPI 6605L | PM-220/21-11-2014 | Each | 163,430.00 | 138,500.00 | 0.00 | 138,500.00 | 24,930.00 | 18 | |
| 55 | Line Matrix Printers (1000 LPM) Model : LIPI 6610L | | | 289,100.00 | 245,000.00 | 0.00 | 245,000.00 | 44,100.00 | 18 | |
| 56 | 11KV, 3x300 Sq.mm Heat Shrinkable Straight Through Cable Jointing Kits (SCB10101) | PM-1199/17-06-2017 | Each | 2,767.08 | 2,299.00 | 45.98 | 2,344.98 | 422.10 | 18 | SCB10101 |
| 57 | 11KV, 3x185 Sq.mm Heat Shrinkable Straight Through Jointing Kits (SCB10104) | PM-1201/17-06-2017 | Each | 2,682.85 | 2,229.00 | 44.60 | 2,273.60 | 409.25 | 18 | SCB10104 |
| 58 | 11KV 3x185 Sq.mm Outdoor End Termination Kits (SCB10105) | PM-1203/17-06-2017 | Each | 942.05 | 782.70 | 15.65 | 798.35 | 143.70 | 18 | SCB10105 |
| 59 | Garmin make eTrex 20 Hand Held GPS Devices | 4381/21-05-2014 | Each | 21,855.96 | 18,522.00 | 0.00 | 18,522.00 | 3,333.96 | 18 | |
| 60 | 24V, 40AH Batteries with Chargers (Conv. type) | PM-23/11-06-2014 | Each | - | | | | - | | |
| 61 | 24V, 40AH Battery Chargers Of Conv. Type (Linear Type) | PM-20/11-06-2014 | Each | - | | | | - | | |
| 62 | Capacitor cells of rating 7.3KV, 220KVAR (Internal Fuse Protection) | PM-1007/23-02-2017 | Each | 11,810.86 | 9,900.00 | 109.20 | 10,009.20 | 1,801.66 | 18 | SGE10050 |
| 63 | LT TVR Meters of 0.5S Class with PP Box with 4 CTs with Modem (Cat-C) | PM-401/26-05-2015 | Nos. | 10,692.94 | 8,820.00 | 241.81 | 9,061.81 | 1,631.13 | 18 | MTE30030 |
| 64 | New Addl. Items | | | | | | | | | |
| 65 | 33KV Polymer Pin Insulators With GI Pins | PM-1310/17, Dt: 18-09-2017. | Nos. | 538.29 | 456.18 | 0.00 | 456.18 | 82.11 | 18 | INS30008 |
| 66 | 11KV Polymer Pin Insulators with GI pins | PM-1251/17, Dt: 31-07-2017. | Nos. | 179.36 | 152.00 | 0.00 | 152.00 | 27.36 | 18 | INS30001 |
| 67 | 11 KV Solid Core Insulators for HG Fuses | PM-868/16, Dt: 12-09-2016 | Nos. | 178.69 | 151.43 | 0.00 | 151.43 | 27.26 | 18 | INS10007 |
| 68 | 33 KV PT (1-Phase) 10 VA Burden 0.2 Class | PM-976/16, Dt:14-02-2017 | | 17,962.26 | 14,001.49 | 1,220.76 | 15,222.25 | 2,740.01 | 18 | ITR30061 |
| 69 | 33 KV PT (1-Phase) 100 VA Burden | PM-661/16, Dt:20-02-2016 | | 21,004.00 | 17,400.00 | 400.00 | 17,800.00 | 3,204.00 | 18 | ITR30058 |
| 70 | 11 KV PT 3 Phase 50VA Burden 0.2Class | PM-1192/17, Dt:15-06-2017 | | 18,167.48 | 14,975.00 | 421.17 | 15,396.17 | 2,771.31 | 18 | ITR10065 |
| 71 | 9 KV 10 KA Metal Oxide Lightning Arrester (Line Type) | PM-963/16, Dt: 02-02-2017 | Nos. | 1,087.46 | 891.00 | 30.58 | 921.58 | 165.88 | 18 | LAS00001 |
| 72 | Capacitor cells of rating 7.3KV,220 KVAR, Internal Fuse Protection | PM-1007/16, Dt: 23-02-2017 | Nos. | 11,469.45 | | | | | | SGE10050 |
| 73 | 33KV Metering CT's 200/1A 0.2S Class | PM-725/16, Dt: 27-04-2016 | Nos. | 15,416.09 | 12,777.00 | 287.48 | 13,064.48 | 2,351.61 | 18 | ITR30053 |
| 74 | 33KV Metering CT's 100/1A, 0.2S Class | PM-184/14, Dt: 18-10-2014 | Nos. | 17,759.98 | 13,470.00 | 1,580.83 | 15,050.83 | 2,709.15 | 18 | ITR30054 |
| 75 | 33KV Metering CT's 25/1A 0.2S | | Nos. | 15,995.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | ITR30055 |
| 76 | 33KV Metering CT's 50/1A 0.2S Class | PM-817/16, Dt: 14-07-2016 | Nos. | 15,420.83 | 12,711.00 | 357.50 | 13,068.50 | 2,352.33 | 18 | ITR30057 |
| 77 | 11KV CT's 400-200/1-1A.0.2 S Class | PM-958/16, Dt: 28-01-2017 | Nos. | 15,104.00 | 12,400.00 | 400.00 | 12,800.00 | 2,304.00 | 18 | ITR10072 |
| 78 | 11KV CT's 600-300/1-1A, 0.2 S Class | PM-668/16, Dt: 27-02-2016 | Nos. | 16,468.75 | 12,996.00 | 960.57 | 13,956.57 | 2,512.18 | 18 | ITR10067 |
| 79 | 220V 80AH Battery with Charger& DC Board | PM-1137/17, Dt: 28-04-2017 | Nos. | 528,897.10 | 408,150.00 | 5,050.86 | 413,200.86 | 115,696.24 | 28 | BAT00020 |
| 80 | HT Trivector Meter of class 0.2S | PM-924/16, Dt:13-12-2016 | EA | 8,238.38 | 6,952.00 | 29.68 | 6,981.68 | 1,256.70 | 18 | MHT10029 |
| 81 | LT Trivector meter (without CTs & Meter box) 100/5A (with DLMS) - | PM-862/16, Dt:01-09-2016 | Nos. | 2,057.38 | 1,725.30 | 18.24 | 1,743.54 | 313.84 | 18 | MTE30042 |
| 82 | LT TVR 100/5A PP 0.5S (CAT-C) DLMS&IRDA | PM-795/16, Dt:20-06-2016 | Nos. | 9,654.42 | 7,992.00 | 189.71 | 8,181.71 | 1,472.71 | 18 | MTE30040 |
| 83 | 1ph 5-30A Electronic IRDA port in PPBox | PM-1051/16, Dt:20-03-2017 | Nos. | 696.34 | 574.22 | 15.90 | 590.12 | 106.22 | 18 | MTE10023 |

| Sl. No | Name of the Material | P.O. No. | Unit | Rupees | Ex works | F&I | Basic Price | GST Rs. Ps | GST% | SAP Code No.. |
|--------|--|---------------------------|------|-----------|-----------|-------|-------------|------------|------|---------------|
| 84 | 1ph 5-30A Electronic IRDA port w/o PPBox | PM-398/15, Dt.26-05-2015 | Nos. | 658.96 | 552.94 | 5.50 | 558.44 | 100.52 | 18 | MTE10024 |
| 85 | 3ph 10-40A Electronic IRDA port in PPBox | PM-826/16, Dt.25-07-2016 | Nos. | 2,134.36 | 1,788.30 | 20.48 | 1,808.78 | 325.58 | 18 | MTE30038 |
| 86 | Integrated Spot Billing Machines with IR and IRDA ports | PM-1008/16, Dt.01-03-2017 | Nos. | 10,489.02 | 8,889.00 | | | 1,600.02 | 18 | OMT10083 |
| 87 | CMRI WITH ACCESSORIES | PM-723/16, Dt.26-04-2016 | Nos. | 26,137.00 | 22,150.00 | | | 3,987.00 | 18 | OMT10014 |
| 88 | Spot Collection Mach with RFID&RFID card | PM-902/16, Dt.02-11-2016 | Nos. | 14,984.14 | 12,698.42 | | | 2,285.72 | 18 | OMT10086 |
| 89 | 11KV 3x300 Sq.mm Heat Shrinkable Outdoor End Termination Kits | PM-985/16, Dt. 15-02-2017 | Nos. | 1,087.88 | 903.86 | 18.07 | 921.93 | 165.95 | 18 | SCB10102 |
| 90 | 11KV, 3x300 Sq.mm Heat Shrinkable Indoor End Termination Kits | PM-838/16, Dt. 30-07-2016 | Nos. | 850.78 | 700.00 | 21.00 | 721.00 | 129.78 | 18 | SCB10103 |
| 91 | 33KV, 3x400 Sq..mm Heat Shrinkable Outdoor End Termination Kits | PM-984/16, Dt. 15-02-2017 | Nos. | 3,356.19 | 2,788.46 | 55.77 | 2,844.23 | 511.96 | 18 | SCB10114 |
| 92 | 11KV, 3x300 Sq.mm Heat Shrinkable Straight Through Cable Jointing Kits | PM-969/16, Dt.13-02-2017 | Nos. | 2,918.73 | 2,425.00 | 48.50 | 2,473.50 | 445.23 | 18 | SCB10101 |
| 93 | 11KV, 3x185 Sq.mm Heat Shrinkable Straight Through Jointing Kits | PM-969/16, Dt.13-02-2017 | Nos. | 2,820.37 | 2,343.27 | 46.87 | 2,390.14 | 430.23 | 18 | SCB10104 |
| 94 | 11KV 3x185 Sq.mm Outdoor End Termination Kits | PM-867/16, Dt.10-09-2016 | Nos. | 1,009.17 | 838.46 | 16.77 | 855.23 | 153.94 | 18 | SCB10105 |
| 95 | Cash Counting Cum Fake Note Detecting Machines | PM-875/16, Dt.17-09-2016 | Nos. | 7,000.00 | | | | | | TS100191 |

Amount in Rs.

| Name of the Material | Total Cost | Basic Price | % GST | GST |
|--------------------------------------|------------|-------------|-------|---------|
| 33KV Back Clamp | 174.64 | 148.00 | 18 | 26.64 |
| 33KV Top Clamp | 306.80 | 260.00 | 18 | 46.80 |
| 33KV Stay sets | 978.22 | 829.00 | 18 | 149.22 |
| 33KV Stay | 528.78 | 448.12 | 18 | 80.66 |
| 33KV Xarm | 1168.20 | 990.00 | 18 | 178.20 |
| 11KV DP structure Bracing set | 5806.78 | 4921 | 18 | 885.78 |
| 33KV DP structure Bracing set | 7096.52 | 6014 | 18 | 1082.52 |
| 33KV DP structure Double Bracing set | 8828.76 | 7482 | 18 | 1346.76 |
| 11KV top cleat with clamp | 322.14 | 273.00 | 18 | 49.14 |
| 11KV Back Clamp | 129.80 | 110.00 | 18 | 19.80 |
| LT Top clamp | 177.00 | 150.00 | 18 | 27.00 |
| 11KV-LT Stay sets | 827.18 | 701.00 | 18 | 126.18 |
| sph mounting arrangements | 1509.22 | 1279 | 18 | 230.22 |
| 1-phase X arm | 165.20 | 140.00 | 18 | 25.20 |
| 11KV 'V' cross arm | 519.20 | 440.00 | 18 | 79.20 |
| LT 3-Ph cross arm | 310.34 | 263.00 | 18 | 47.34 |
| LT Back Clamp | 69.62 | 59.00 | 18 | 10.62 |
| Stay clamp | 106.63 | 90.37 | 18 | 16.27 |
| 1-Ph arm | 164.98 | 139.82 | 18 | 25.17 |

COST - DATA ABSTRACT

| Sl. No | Particulars of items | Wind. Pr. In Kg /m2 | W.Load in Kg. | Type of pole being used | Span in Mtrs. | No. of poles/ KM | Size of conductor | Total Cost in Rs. | |
|--------|--|---------------------|---------------|-------------------------|---------------|------------------|-------------------|-------------------|--------|
| 1 | 33 KV Line | 75 | 365 | 11 M RS Joist | 50 | 21 | 100 sqmm AAAC | 1005131 | |
| 2 | 33 KV DC Line | 75 | 365 | 12 M RS Joist | 50 | 21 | 100 sqmm AAAC | 1387870 | |
| 3 | 33 KV Line | 75 | 365 | 11 M PSCC | 60 | 17 | 100 sqmm AAAC | 763576 | |
| 4 | 33 KV DC Line | 75 | 365 | 11 M PSCC | 40 | 26 | 100 sqmm AAAC | 1284067 | |
| 5 | 33 KV Line | 75 | 280 | 9.1 Mtr.PSCC | 80 | 14 | 100 sqmm AAAC | 533400 | |
| 6 | 33 KV Line | 75 | 280 | 9.1 Mtr.PSCC | 65 | 16 | 100 sqmm AAAC | 547900 | |
| 7 | 11 KV line | 75 | 140 | 9.1 Mtr.PSCC | 60 | 18 | 55 sqmm AAAC | 431459 | |
| 8 | 11 KV line | 75 | 140 | 9.1 Mtr.PSCC | 60 | 18 | 34 sqmm AAAC | 391090 | |
| 9 | 11 KV line | 75 | 140 | 8 Mtr.PSCC | 60 | 18 | 55 sqmm AAAC | 374343 | |
| 10 | 11 KV line | 75 | 140 | 8 Mtr.PSCC | 60 | 18 | 34 sqmm AAAC | 335481 | |
| 11 | 11 KV line | 75 | 140 | RSJoist Poles | 50 | 21 | 55 sqmm AAAC | 582123 | |
| 12 | 6.3 KV line | 75 | 140 | 8 Mtr.PSCC | 90 | 11 | 34 sqmm AAAC | 155692 | |
| 13 | LT 3 Ph.5 Wire line (Horizontal) | 75 | 140 | 8 Mtr.PSCC | 65 | 16 | 3x55+2x34sqmmAAA | 346266 | |
| 14 | LT 3 Ph.5 Wire line (Horizontal) | 75 | 140 | 8 Mtr.PSCC | 45 | 23 | 3x55+2x34sqmmAAA | 386042 | |
| 15 | LT 3 Ph.5 Wire line (Horizontal) | 75 | 140 | 8 Mtr.PSCC | 65 | 16 | 5x34sqmm AAA | 311612 | |
| 16 | LT 3 Ph.4 Wire line (Horizontal) | 75 | 140 | 8 Mtr.PSCC | 65 | 16 | 3x55+1x34sqmmAAA | 316004 | |
| 17 | LT 3 Ph.4 Wire line (Horizontal) | 75 | 140 | 8 Mtr.PSCC | 65 | 16 | 4x34sqmm AAA | 281556 | |
| 18 | LT 1 Ph. 3 Wire line (Horizontal) | 75 | 140 | 8 Mtr.PSCC | 65 | 16 | 3x34 sqmm AAA | 240275 | |
| 19 | LT 1 Ph. 2 Wire line (Horizontal) | 75 | 140 | 8 Mtr.PSCC | 65 | 16 | 2x34 sqmm AAA | 208972 | |
| 20 | L.T.AB Cable | 75 | 140 | 8 Mtr.PSCC | 65 | 16 | 3x16+25sqmm | 219929 | |
| 21 | L.T.AB Cable | 75 | 140 | 8 Mtr.PSCC | 65 | 16 | 2x16+25sqmm | 200288 | |
| 22 | Conversion of 1Ph 2 W/L to 3 Ph 4 W/L | 75 | 140 | 8 Mtr.PSCC | 65 | 16 | 2x55xqmm | 98003 | |
| 22 | Erection of 100 KVA CSP CRGO Distribution Transformer | | | | | | | | 244735 |
| 23 | Erection of 63 KVA CSP Distribution Transformer | | | | | | | | 219205 |
| 24 | Erection of 63 KVA CSP CRGO core Distribution Transformer on plinth | | | | | | | | 186975 |
| 25 | Erection of 63 KVA CSP CRGO core Distribution Transformer on structure | | | | | | | | 186804 |
| 26 | Erection of 100 KVA CSP CRGO core Distribution Transformer on column plinth | | | | | | | | 234125 |
| 27 | Erection of 25 KVA, 3- Phase CRGO core Distribution Transformer | | | | | | | | 120993 |
| 28 | Erection of 25 KVA, 3-Phase, 11 KV/433 V /250 V CRGO Conventional Transformer | | | | | | | | 108461 |
| 29 | Erection of 25 KVA, Single Phase, 6.3 KV/0-240 V C.S.P. CRGO Transformer | | | | | | | | 72100 |
| 30 | Erection of 15 KVA Single Phase 6.3 KV/0-240 V CSP CRGO Distribution Transformer | | | | | | | | 44532 |
| 31 | Release of poly phase Agl. Service erected on support | | | | | | | | 6572 |
| 32 | Release of 1 ph Domestic & non-domestic service (Electronic meter) | | | | | | | | 2544 |
| 33 | Release of 3 ph. Domestic & non-domestic service (Electronic meter) | | | | | | | | 5867 |

| | | |
|----|--|----------|
| 34 | Release of poly phase Indl.service below 20 HP (Electronic meter) | 6521 |
| 35 | Release of Industrial service above 20H.P upto 50 HP with LT Trivector meter | 11867 |
| 36 | Release of Industrial service above 50 HP and upto 75 HP (HT metering) | 189125 |
| 37 | Release of Street light service (1 -ph electronic meter) | 3039 |
| 38 | Erection of L.T. C.T. Operated Electronic trivector meter on LV side of DTR | 12450 |
| 39 | Erection of 33/11 KV Sub-station with 2 x 8 MVA power transformer & 6 Nos. 11 KV feeders (without 11 KV 2 MVAR capacitor Bank) | 26200000 |
| 40 | Erection of 33/11 KV Sub-station with 2 x 8 MVA power transformer & 6 Nos. 11 KV feeders (with 11 KV 2 MVAR capacitor Bank) | 27600000 |
| 41 | Erection of 33/11 KV Sub-station (Indoor substation) with 2x8 MVA power transformer & 6 Nos. 11 KV feeders (without 11 KV 2 MVAR capacitor Bank) | 46175298 |
| 42 | Erection of 33/11 KV Sub-station with 9.1 mts PSCC Poles and 2x5 MVA power transformer & 5 Nos. 11 KV feeders (without 11 KV 2 MVAR capacitor Bank) | 16027000 |
| 43 | Erection of 33/11 KV Sub-station with 9.1 mts PSCC Poles and 2x5 MVA power transformer & 5 Nos. 11 KV feeders (with 11 KV 2 MVAR capacitor Bank) | 17200000 |
| 44 | Erection of 33/11 KV Sub-station with 9.1 mts PSCC Poles and 1 No. power transformer & 3 Nos. 11 KV feeders (with 11 KV 2 MVAR capacitor Bank) | 12040000 |
| 45 | 11 KV Bay extension in existing 33/11 KV Sub-stations with girder poles | 80093 |
| 46 | 11 KV Bay extension in existing 33/11 KV Sub-stations with PSCC poles | 58839 |
| 47 | 33KV Bay Extension at 33/11 kV Sub-station | 118000 |
| 48 | 33KV Bay Extension at 132/33KV SS | 839747 |
| 49 | Erection of 11 KV VCB at 33/11 kV Sub-station | 332280 |
| 50 | Erection of 33KV VCB at 132/33KV SS | 1260786 |
| 51 | Erection of 2MVAR Capacitor Bank | 1173062 |
| 52 | Enhancement of PTR Capacity | 3920169 |
| 53 | Laying of 11 KV, 3 core 300 Sq.mm UG Cable | 2400571 |
| 54 | Laying of 33 KV, 3 core 400 Sq.mm UG Cable | 3459025 |
| 55 | Erection of M+3 tower | 150494 |
| 56 | Erection of K+3 tower | 103887 |
| 57 | Erection of L+3 tower | 118883 |
| 58 | Erection of additional 5 MVA PTR in existing 33/11 KV Sub-station | 3787100 |
| 59 | Extension of 3Mtrs for K+3 Towers as per ASCI Standard | 16729 |
| 60 | Extension of 3Mtrs for L+3 Towers as per ASCI Standard | 25209 |
| 61 | Extension of 3Mtrs for M+3 Towers as per ASCI Standard | 30493 |
| 62 | REC construction standard Drawings (19 Nos.) | |

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. 40% extra is allowed for the works located within the interior Agency / Tribal areas. (i.e.) for works located beyond 16 Kilometers from any all-weather bus route inside the agency / tribal area. (Where Bus routes are not available)

b. 25% extra is allowed for the works located inside the agency / tribal area.

c. 15% extra is allowed for the works located in the border of agency / tribal area. (i.e.) works located within a belt of 16 kilometers from the boundary of agency / tribal area.

**Cost data per Km of 33 KV Line with 100 Sq.mm AAA Conductor over 11 Mts.
RS Joist box type at 50 Mts. Span, 100 Kg/sq.Mt wind pressure, working load 365 Kgs.**

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|--|------|-------------|----------|----------------|
| 1 | RS Joist box type 11mtrs Pole (150x75mm) | 21 | 18,833 | Each | 395,493 |
| 2 | 1.53 M Channel / 'V' Cross Arm (100x50mm) | 21 | 1,142 | Each | 23,982 |
| 3 | Top Clamp with cleat (75x8mm) | 20 | 302 | Each | 6,040 |
| 4 | Back Clamp | 20 | 169 | Each | 3,380 |
| 5 | Stay Set complete | 12 | 982 | Each | 11,784 |
| 6 | Bracing Set with double cross arm | 1 | 6,775 | Set | 6,775 |
| 7 | 100 Sq.mm AAA Conductor | 3.06 | 50,489 | K.M. | 154,496 |
| 8 | 33KV Polymer Pin Insulators With GI Pins | 63 | 538 | Each | 33,912 |
| 9 | Strain Insulators set (3x 11 KV B&S Insulator with 33 KV Hard ware fitting)) | 12 | 746 | Set | 8,952 |
| 10 | Concreting of Pole, Stay sets & Base concreting | L.S | | L.S | 98,354 |
| 11 | Misc. Items like coil earthing, pipe earthing, danger, bolts & nuts, etc | L.S | | L.S | 9036 |
| Total Cost of Material | | | | | 752,204 |

3% storage & handling charges on items (1) to (9) 19,344

3% Contingencies on Materials 22,566

Labour & Transport 115,082

GST at 18 % on L&T 20,715

10% Estt. & Genl. Charges on Materials 75,220

Total 1005131.06

Or Say 1,005,131

**Cost data per Km of 33 KV DC Line with 100 Sq.mm AAA Conductor over 12 Mts.
RS Joist box type at 50 Mts. Span, 100 Kg/sq.Mt wind pressure, working load 365 Kgs.**

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|------------------|
| 1 | RS Joist box type 12mtrs Pole | 21 | 22,026 | Each | 462,556 |
| 2 | 1.53 M Channel / 'V' Cross Arm | 60 | 1,142 | Each | 68,520 |
| 3 | Back Clamp | 60 | 169 | Each | 10,140 |
| 4 | Stay Set complete | 12 | 982 | Each | 11,784 |
| 5 | Double Bracing Set with double cross arm | 1 | 8,508 | Set | 8,508 |
| 6 | 100 Sq.mm AAA Conductor | 6.12 | 50,489 | K.M. | 308,993 |
| 7 | 33KV Polymer Pin Insulators With GI Pins | 108 | 538 | Each | 58,136 |
| 8 | Strain Insulators set (3x 11 KV B&S Insulator with 33 KV Hard ware fitting) | 24 | 746 | Set | 17,904 |
| 9 | Concreting of Pole, Stay sets & Base concreting | L.S | | L.S | 99,314 |
| 10 | Misc. Items like coil earthing, pipe earthing, danger, bolts & nuts, etc | L.S | | L.S | 9,036 |
| Total Cost of Material | | | | | 1,054,891 |

3% storage & handling charges on items (1) to (8) 28,396

3% Contingencies on Materials 31,647

Labour & Transport 141904

GST at 18 % on L&T 25,543

10% Estt. & Genl. Charges on Materials 105,489

Total 1,387,870

Or Say 1,387,870

REC Construction Standard No.M2/1979 (R-1989)

**Cost data per Km of 33 KV Line (SC) with 100 Sq.mm AAA Conductor over
11 Mts. PSCC Poles at 60 Mts. Span, 75 Kg/sq.Mt wind pressure, working load
365 Kgs.**

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-----------------------------------|--|------|-------------|----------|----------------|
| 1 | 11 M PSCC Pole | 17 | 7497 | Each | 127,449 |
| 2 | 1.53 M Channel / 'V' Cross Arm | 17 | 1142 | Each | 19,414 |
| 3 | Top Clamp with cleat | 16 | 302 | Each | 4,832 |
| 4 | Back Clamp | 17 | 169 | Each | 2,873 |
| 5 | Stay Set complete | 12 | 982 | Each | 11,784 |
| 6 | Bracing Set with double cross arm | 1 | 6775 | Set | 6,775 |
| 7 | 100 Sq.mm AAA Conductor | 3.06 | 50489 | K.M. | 154,496 |
| 8 | 33KV Polymer Pin Insulators With GI Pin | 48 | 538 | Each | 25,838 |
| 9 | Strain Insulators set (3x 11 KV B&S Insulator with 33 KV Hard ware fitting) | 12 | 746 | Set | 8,952 |
| 10 | Concreting of Pole, Stay sets & Base concreting | L.S | | L.S | 113842 |
| 11 | Misc. Items like coil earthing, pipe eathing, danger, bolts & nuts, etc | L.S | | L.S | 6050 |
| Total Cost of the Material | | | | | 482,305 |

| | |
|---|-----------------------|
| 3% storage & handling charges on items (1) to (9) | 10,872 |
| 3% Contingencies on Materials | 14,469 |
| Labour & Transport | 176016 |
| GST at 18 % on L&T | 31,683 |
| 10% Estt. & Genl. Charges on Materials | 48,231 |
| Total | 763,576 |
| Stays Pits (0.76x0.76x1.5) Excavation | Or Say 763,576 |

REC Construction Standard No.M2/1979 (R-1989)

**Cost data per Km of 33 KV Line (DC) with 100 Sq.mm AAA Conductor over 11 Mts.
PSCC Poles at 40 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 365 Kgs.**

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-----------------------------------|---|------|-------------|----------|----------------|
| 1 | 11 M PSCC Pole | 26 | 7497 | Each | 194,922 |
| 2 | 1.53 M Channel / 'V' Cross Arm | 72 | 1142 | Each | 82,224 |
| 3 | Back Clamp | 75 | 169 | Each | 12,675 |
| 4 | Stay Set complete | 12 | 982 | Each | 11,784 |
| 5 | Double Bracing Set with double cross arm | 1 | 8508 | Set | 8,508 |
| 6 | 100 Sq.mm AAA Conductor | 6.12 | 50489 | K.M. | 308,993 |
| 7 | 33KV Polymer Pin Insulators With GI Pins | 156 | 538 | Each | 83,974 |
| 8 | Strain Insulators set (3x 11 KV B&S Insulator with 33 KV Hard ware fitting) | 24 | 746 | Set | 17,904 |
| 9 | Concreting of Pole, Stay sets & Base concreting | L.S | | L.S | 136923 |
| 10 | Misc. Items like coil earthing, pipe eathing, danger, bolts & nuts, etc | L.S | | L.S | 6655 |
| Total Cost of the Material | | | | | 864,562 |

3% storage & handling charges on items (1) to (8) 21,630

3% Contingencies on Materials 25,937

Labour & Transport 241934

GST at 18 % on L&T 43,548

10% Estt. & Genl. Charges on Materials 86,456

Total 1,284,067

Or Say 1,284,067

REC Construction Standard No.M-2/1979 (R-1989)
Cost data per Km of 33 KV Line with 100 Sq.mm AAA Conductor over 9.1 Mts.
PSCC Poles at 80 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 280 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 9.1 M PSCC Pole | 14 | 3,776 | Each | 52,863 |
| 2 | 1.53 M Channel / 'V' Cross Arm | 14 | 1,142 | Each | 15,988 |
| 3 | Top Clamp with cleat | 12 | 302 | Each | 3,624 |
| 4 | Back Clamp | 13 | 169 | Each | 2,197 |
| 5 | Stay Set complete | 12 | 982 | Each | 11,784 |
| 6 | Bracing Set with double cross arm | 1 | 6,775 | Set | 6,775 |
| 7 | 100 Sq.mm AAA Conductor | 3.06 | 50,489 | K.M. | 154,496 |
| 8 | 33KV Polymer Pin Insulators With GI Pins | 39 | 538 | Each | 20,993 |
| 9 | Strain Insulators set (3x 11 KV B&S Insulator with 33 KV Hard ware fitting) | 12 | 746 | Set | 8,952 |
| 10 | Concreting of Pole, Stay sets & Base concreting | L.S | | L.S | 84,567 |
| 11 | Misc. Items like coil earthing, pipe eathing, danger, bolts & nuts, etc | L.S | | L.S | 5500 |
| Total Cost of Material | | | | | 367,739 |

| | |
|---|----------------|
| 3% storage & handling charges on items (1) to (9) | 8,330 |
| 3% Contingencies on Materials | 11,032 |
| Labour & Transport | 92842 |
| GST at 18 % on L&T | 16,712 |
| 10% Estt. & Genl. Charges on Materials | 36,774 |
| Total | 533,429 |
| Or Say | 533,400 |

Standard No.M-2/1979 (R-1989)
 100 Sq.mm AAA Conductor over 9.1 Mts.
 1.53 M Channel / 'V' Cross Arm
 1.53 Mts. wind pressure, working load 280 Kgs.

| Sl. | Particulars | Qty. | Rate in | Per Unit | Amount in |
|-------------------------------|---|------|---------|----------|----------------|
| 1 | 9.1 M PSCC Pole | 16 | 3,776 | Each | 60,415 |
| 2 | 1.53 M Channel / 'V' Cross Arm | 16 | 1,142 | Each | 18,272 |
| 3 | Top Clamp with cleat | 15 | 302 | Each | 4,530 |
| 4 | Back Clamp | 15 | 169 | Each | 2,535 |
| 5 | Stay Set complete | 10 | 982 | Each | 9,820 |
| 6 | Bracing Set with double cross arm | 1 | 6,775 | Set | 6,775 |
| 7 | 100 Sq.mm AAA Conductor | 3.06 | 50,489 | K.M. | 154,496 |
| 8 | 33KV Polymer Pin Insulators With GI Pins | 45 | 538 | Each | 24,223 |
| 9 | Strain Insulators set (3x 11 KV B&S Insulator with 33 KV Hard ware fitting) | 12 | 746 | Set | 8,952 |
| 10 | Concreting of Pole, Stay sets & Base concreting | L.S | | L.S | 79,485 |
| 11 | Misc. Items like coil earthing, pipe earthing, danger, bolts & nuts, etc | L.S | | L.S | 5500 |
| Total Cost of Material | | | | | 375,003 |

| | |
|---|----------------|
| 3% storage & handling charges on items (1) to (9) | 8,701 |
| 3% Contingencies on Materials | 11,250 |
| Labour & Transport | 97802 |
| GST at 18 % on L&T | 17,604 |
| 10% Estt. & Genl. Charges on Materials | 37,500 |
| Total | 547,860 |
| Or Say | 547,900 |

REC Construction Standard No. A-34/1993
Cost data per Km of 11 KV Line with 55 Sq.mm AAA Conductor over 9.1 Mts.
PSCC Poles at 60 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 9.1 M PSCC Pole | 18 | 3,776 | Each | 67,967 |
| 2 | 1.07 M Channel / 'V' Cross Arm | 18 | 506 | Each | 9,108 |
| 3 | Top Clamp with cleat | 16 | 314 | Each | 5,024 |
| 4 | Back Clamp | 17 | 125 | Each | 2,125 |
| 5 | Stay Set complete | 10 | 827 | Each | 8,270 |
| 6 | Bracing Set with double cross arm | 1 | 5,427 | Set | 5,427 |
| 7 | 55 Sq.mm AAA Conductor | 3.06 | 28,459 | K.M. | 87,085 |
| 8 | 11 KV Pin Insulator with Pin | 54 | 101 | Each | 5,451 |
| 9 | Strain Insulator with metal parts | 12 | 276 | Each | 3,316 |
| 10 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 74,569 |
| 11 | Misc. Items like coil earthing, pipe eathing, danger, bolts & nuts, etc | | | L.S | 4000 |
| Total Cost of Material | | | | | 272,342 |

3% storage & handling charges on items (1) to (9) 5,813

3% Contingencies on Materials 8,170

Labour & Transport 99915

GST at 18 % on L&T 17,985

10% Estt. & Genl. Charges on Materials 27,234

Total 431,459

Or Say 431,459

**Cost data per Km of 11 KV Line with 34 Sq.mm AAA Conductor over 9.1 Mts.
PSCC Poles at 60 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.**

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---------|---|------|-------------|----------|----------------|
| 1 | 9.1 M PSCC Pole | 18 | 3,776 | Each | 67,967 |
| 2 | 1.07 M Channel / 'V' Cross Arm | 18 | 506 | Each | 9,108 |
| 3 | Top Clamp with cleat | 16 | 314 | Each | 5,024 |
| 4 | Back Clamp | 17 | 125 | Each | 2,125 |
| 5 | Stay Set complete | 10 | 827 | Each | 8,270 |
| 6 | Bracing Set with double cross arm | 1 | 5,427 | Set | 5,427 |
| 7 | 34 Sq.mm AAA Conductor | 3.06 | 18,754 | K.M. | 57,387 |
| 8 | 11 KV Pin Insulator with Pin | 54 | 101 | Each | 5,451 |
| 9 | Strain Insulator with metal parts | 12 | 276 | Each | 3,316 |
| 10 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 74569 |
| 11 | Misc. Items like coil earthing, pipe eathing, danger, bolts & nuts, etc | | | L.S | 4000 |
| | Total Cost of Material | | | | 242,644 |

3% storage & handling charges on items (1) to (9) 4,922

3% Contingencies on Materials 7,279

Labour & Transport 94899

GST at 18 % on L&T 17,082

10% Estt. & Genl. Charges on Materials 24,264

Total 391,090

Or Say 391,090

REC Construction Standard No. A-34/1993

**Cost data per Km of 11 KV Line with 55 Sq.mm AAA Conductor over 8 Mts.
PSCC Poles at 60 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.**

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|--|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 18 | 1,619 | Each | 29,143 |
| 2 | 1.07 M Channel / 'V' Cross Arm | 18 | 506 | Each | 9,108 |
| 3 | Top Clamp with cleat | 16 | 314 | Each | 5,024 |
| 4 | Back Clamp | 17 | 125 | Each | 2,125 |
| 5 | Stay Set complete | 10 | 827 | Each | 8,270 |
| 6 | Bracing Set with double cross arm | 1 | 5,427 | Set | 5,427 |
| 7 | 55 Sq.mm AAA Conductor | 3.06 | 28,459 | K.M. | 87,085 |
| 8 | 11 KV Pin Insulator with Pin | 54 | 101 | Each | 5,451 |
| 9 | Strain Insulator with metal parts | 12 | 276 | Each | 3,316 |
| 10 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 74,569 |
| 11 | Misc. Items like coil earthing, pipe earthing, danger, bolts & nuts, etc | | | L.S | 4000 |
| Total Cost of Material | | | | | 233,518 |

3% storage & handling charges on items (1) to (9) 4,648

3% Contingencies on Materials 7,006

Labour & Transport 89677

GST at 18 % on L&T 16,142

10% Estt. & Genl. Charges on Materials 23,352

Total 374,343

Or Say 374,343

REC Construction Standard No. A-34/1993

**Cost data per Km of 11 KV Line with 34 Sq.mm AAA Conductor over 8 Mts.
PSCC Poles at 60 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs**

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 18 | 1,619 | Each | 29,143 |
| 2 | 1.07 M Channel / 'V' Cross Arm | 18 | 506 | Each | 9,108 |
| 3 | Top Clamp with cleat | 16 | 314 | Each | 5,024 |
| 4 | Back Clamp | 17 | 125 | Each | 2,125 |
| 5 | Stay Set complete | 10 | 827 | Each | 8,270 |
| 6 | Bracing Set with double cross arm | 1 | 5,427 | Set | 5,427 |
| 7 | 34 Sq.mm AAA Conductor | 3.06 | 18,754 | K.M. | 57,387 |
| 8 | 11 KV Pin Insulator with Pin | 54 | 101 | Each | 5,451 |
| 9 | Strain Insulator with metal parts | 12 | 276 | Each | 3,316 |
| 10 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 74,569 |
| 11 | Misc. Items like coil earthing, pipe eathing, danger, bolts & nuts, etc | | | L.S | 4000 |
| Total Cost of Material | | | | | 203,820 |

3% storage & handling charges on items (1) to (9) 3,758

3% Contingencies on Materials 6,115

Labour & Transport 85937

GST at 18 % on L&T 15,469

10% Estt. & Genl. Charges on Materials 20,382

Total 335,481

Or Say 335,481

REC Construction Standard No. A-34/1993
Cost data per Km of 11 KV Line with 55 Sq.mm AAA Conductor over RS
Joist Poles at 50 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|--|------|-------------|----------|----------------|
| 1 | RSJoist Poles (175x85mm) | 21 | 8,811 | Each | 185,022 |
| 2 | 1.07 M Channel / 'V' Cross Arm | 21 | 506 | Each | 10,626 |
| 3 | Top Clamp with cleat | 20 | 314 | Each | 6,280 |
| 4 | Back Clamp | 21 | 125 | Each | 2,625 |
| 5 | Stay Set complete | 10 | 827 | Each | 8,270 |
| 6 | Bracing Set with double cross arm | 1 | 5,427 | Set | 5,427 |
| 7 | 55 Sq.mm AAA Conductor | 3.06 | 28,459 | K.M. | 87,085 |
| 8 | 11 KV Pin Insulator with Pin | 54 | 101 | Each | 5,451 |
| 9 | Strain Insulator with metal parts | 12 | 276 | Each | 3,316 |
| 10 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 84,401 |
| 11 | Misc. Items like coil earthing, pipe earthing, danger, bolts & nuts, etc | | | L.S | 4000 |
| Total Cost of Material | | | | | 402,503 |

3% storage & handling charges on items (1) to (9) 9,423

3% Contingencies on Materials 12,075

Labour & Transport 99892

GST at 18 % on L&T 17,981

10% Estt. & Genl. Charges on Materials 40,250

Total 582,123

Or Say 582,123

REC Construction Standard No. A-17/1987

Cost data per Km of 6.3 KV Sph Line with 34 Sq.mm AAA Conductor over 8 Mts. PSCC Poles at 90 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|---------------|
| 1 | 8 M PSCC Pole | 11 | 1,619 | Each | 17,810 |
| 2 | Top Clamp with cleat | 11 | 314 | Each | 3,454 |
| 3 | Back Clamp | 10 | 125 | Each | 1,250 |
| 4 | Stay Set complete | 4 | 827 | Each | 3,308 |
| 5 | 34 Sq.mm AAA Conductor | 1.02 | 18,754 | K.M. | 19,129 |
| 6 | 11 KV Pin Insulator with Pin | 10 | 101 | Each | 1,009 |
| 7 | Strain Insulator with metal parts | 4 | 276 | Each | 1,105 |
| 8 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 29828 |
| 9 | Misc. Items like coil earthing, danger board, bolts & nuts, etc | | | L.S | 2100 |
| Total Cost of Material | | | | | 78,993 |

3% storage & handling charges on items (1) to (7) 1,412

3% Contingencies on Materials 2,370

Labour & Transport 55100

GST at 18 % on L&T 9,918

10% Estt. & Genl. Charges on Materials 7,899

Total 155,692

Or Say 155,692

REC Construction Standard No. B-8/1984
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 65 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 16 | 1,619 | Each | 25,905 |
| 2 | LT 3 Phase cross arms | 18 | 305 | Each | 5,490 |
| 3 | LT top fitting | 18 | 172 | Each | 3,096 |
| 4 | Back Clamp | 18 | 67 | Each | 1,206 |
| 5 | Stay Set complete | 6 | 827 | Each | 4,962 |
| 6 | 55 Sq.mm AAA Conductor | 3.06 | 28,459 | KM | 87,085 |
| 7 | 34 Sq.mm AAA Conductor | 2.04 | 18,754 | KM | 38,258 |
| 8 | Shackle Insulator with metal parts | 16 | 55 | Each | 880 |
| 9 | LT pin insulator with pin | 56 | 55 | Each | 3,080 |
| 10 | C.I. Knob | 16 | 10 | Each | 160 |
| 11 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 44741 |
| 12 | Misc. Items like coil earthing, danger board, bolts & nuts, etc | | | L.S | 4000 |
| Total Cost of Material | | | | | 218,863 |

3% storage & handling charges on items (1) to (10) 5,104

3% Contingencies on Materials 6,566

Labour & Transport 79531

GST at 18 % on L&T 14,316

10% Estt. & Genl. Charges on Materials 21,886

Total 346,266

Or Say 346,266

REC Construction Standard No. B-8/1984
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 45 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 23 | 1,619 | Each | 37,239 |
| 2 | LT 3 Phase cross arms | 24 | 305 | Each | 7,320 |
| 3 | LT top fitting | 24 | 172 | Each | 4,128 |
| 4 | Back Clamp | 24 | 67 | Each | 1,608 |
| 5 | Stay Set complete | 6 | 827 | Each | 4,962 |
| 6 | 55 Sq.mm AAA Conductor | 3.06 | 28,459 | KM | 87,085 |
| 7 | 34 Sq.mm AAA Conductor | 2.04 | 18,754 | KM | 38,258 |
| 8 | Shackle Insulator with metal parts | 16 | 55 | Each | 880 |
| 9 | LT pin insulator with pin | 84 | 55 | Each | 4,620 |
| 10 | C.I. Knob | 23 | 10 | Each | 230 |
| 11 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 54573 |
| 12 | Misc. Items like coil earthing, danger board, bolts & nuts, etc | | | L.S | 4000 |
| Total Cost of Material | | | | | 244,903 |

3% storage & handling charges on items (1) to (10) 5,590

3% Contingencies on Materials 7,347

Labour & Transport 87,892

GST at 18 % on L&T 15,821

10% Estt. & Genl. Charges on Materials 24,490

Total 386,042

Or Say 386,042

REC Construction Standard No. B-8/1984
Cost data per Km of LT 3 Ph 5 Wire line (Horizontal formation) with
5 x 34 Sqmm AAAC over 8 Mts.
PSCC Poles at 65 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 16 | 1,619 | Each | 25,905 |
| 2 | LT 3 Phase cross arms | 18 | 305 | Each | 5,490 |
| 3 | LT top fitting | 18 | 172 | Each | 3,096 |
| 4 | Back Clamp | 18 | 67 | Each | 1,206 |
| 5 | Stay Set complete | 6 | 827 | Each | 4,962 |
| 6 | 34 Sq.mm AAA Conductor | 5.1 | 18,754 | KM | 95,645 |
| 7 | Shackle Insulator with metal parts | 16 | 55 | K.M. | 880 |
| 8 | LT pin insulator with pin | 56 | 55 | Each | 3,080 |
| 9 | C.I. Knob | 16 | 10 | Each | 160 |
| 10 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 44741 |
| 11 | Misc. Items like coil earthing, danger board, bolts & nuts, etc | | | L.S | 4000 |
| Total Cost of Material | | | | | 189,165 |

3% storage & handling charges on items (1) to (9) 4,213

3% Contingencies on Materials 5,675

Labour & Transport 79358

GST at 18 % on L&T 14,284

10% Estt. & Genl. Charges on Materials 18,917

Total 311,612

Or Say 311,612

REC Construction Standard No. B-8/1984
Cost data per Km of LT 3 Ph 4 Wire line (Horizontal formation) with
3 x 55 Sqmm + 1 x 34 mm AAAC over 8 Mts.
PSCC Poles at 65 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 16 | 1,619 | Each | 25,905 |
| 2 | LT 3 Phase cross arms | 18 | 305 | Each | 5,490 |
| 3 | Back Clamp | 18 | 67 | Each | 1,206 |
| 4 | Stay Set complete | 6 | 827 | Each | 4,962 |
| 5 | 55 Sq.mm AAA Conductor | 3.06 | 28,459 | K.M. | 87,085 |
| 6 | 34 Sq.mm AAA Conductor | 1.02 | 18,754 | K.M. | 19,129 |
| 7 | Shackle Insulator with metal parts | 12 | 55 | Each | 660 |
| 8 | LT pin insulator with pin | 42 | 55 | Each | 2,310 |
| 9 | C.I. Knob | 16 | 10 | Each | 160 |
| 10 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 44741 |
| 11 | Misc. Items like coil earthing, danger board, bolts & nuts, etc | | | L.S | 4000 |
| Total Cost of Material | | | | | 195,648 |

| | |
|---|----------------|
| 3% storage & handling charges on items (1) to (9) | 4,407 |
| 3% Contingencies on Materials | 5,869 |
| Labour & Transport | 76707 |
| GST at 18 % on L&T | 13,807 |
| 10% Estt. & Genl. Charges on Materials | 19,565 |
| Total | 316,004 |
| Or Say | 316,004 |

REC Construction Standard No. B-8/1984
Cost data per Km of LT 3 Ph 4 Wire line (Horizontal formation) with
4 x 34 Sqmm AAAC over 8 Mts.
PSCC Poles at 65 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 16 | 1,619 | Each | 25,905 |
| 2 | LT 3 Phase cross arms | 18 | 305 | Each | 5,490 |
| 3 | Back Clamp | 18 | 67 | Each | 1,206 |
| 4 | Stay Set complete | 6 | 827 | Each | 4,962 |
| 5 | 34 Sq.mm AAA Conductor | 4.08 | 18754.2 | K.M. | 76,517 |
| 6 | Shackle Insulator with metal parts | 12 | 55 | Each | 660 |
| 7 | LT pin insulator with pin | 42 | 55 | Each | 2,310 |
| 8 | C.I. Knob | 16 | 10 | Each | 160 |
| 9 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 44741 |
| 10 | Misc. Items like coil earthing, danger board, bolts & nuts, etc | | | L.S | 4000 |
| Total Cost of Material | | | | | 165,951 |

3% storage & handling charges on items (1) to (8) 3,516

3% Contingencies on Materials 4,979

Labour & Transport 76,707

GST at 18 % on L&T 13,807

10% Estt. & Genl. Charges on Materials 16,595

Total 281,556

Or Say 281,556

REC Construction Standard No. B-11/1984
Cost data per Km of LT Single Phase 3 Wire line (Horizontal formation)
with 34 Sqmm AAAC over 8 Mts.
PSCC Poles at 65 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 16 | 1,619 | Each | 25,905 |
| 2 | LT 1 Phase cross arms | 18 | 161 | Each | 2,890 |
| 3 | LT top fitting | 18 | 172 | Each | 3,096 |
| 4 | Back Clamp | 18 | 67 | Each | 1,206 |
| 5 | Stay Set complete | 4 | 827 | Each | 3,308 |
| 6 | 34 Sq.mm AAA Conductor | 3.06 | 18,754 | K.M. | 57,387 |
| 7 | Shackle Insulator with metal parts | 8 | 55 | Each | 440 |
| 8 | LT pin insulator with pin | 28 | 55 | Each | 1,540 |
| 9 | C.I. Knob | 16 | 10 | Each | 160 |
| 10 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 34743 |
| 11 | Misc. Items like coil earthing, danger board, bolts & nuts, etc | | | L.S | 4000 |
| Total Cost of Material | | | | | 134,675 |

| | |
|---|----------------|
| 3% storage & handling charges on items (1) to (9) | 2,878 |
| 3% Contingencies on Materials | 4,040 |
| Labour & Transport | 72,215 |
| GST at 18 % on L&T | 12,999 |
| 10% Estt. & Genl. Charges on Materials | 13,468 |
| Total | 240,275 |
| Or Say | 240,275 |

REC Construction Standard No. B-11/1984
Cost data per Km of LT Single Phase 2 Wire line (Horizontal formation)
with 2 x 34 Sqmm AAAC over 8 Mts.
PSCC Poles at 65 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 16 | 1,619 | Each | 25,905 |
| 2 | LT 1 Phase cross arms | 18 | 161 | Each | 2,898 |
| 3 | Back Clamp | 18 | 67 | Each | 1,206 |
| 4 | Stay Set complete | 4 | 827 | Each | 3,308 |
| 5 | 34 Sq.mm AAA Conductor | 2.04 | 18,754 | K.M. | 38,258 |
| 6 | Shackle Insulator with metal parts | 4 | 55 | Each | 220 |
| 7 | LT pin insulator with pin | 14 | 55 | Each | 770 |
| 8 | C.I. Knob | 16 | 10 | Each | 160 |
| 9 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 34743 |
| 10 | Misc. Items like coil earthing, danger board, bolts & nuts, etc | | | L.S | 2900 |
| Total Cost of Material | | | | | 110,368 |

3% storage & handling charges on items (1) to (8) 2,182

3% Contingencies on Materials 3,311

Labour & Transport 69,554

GST at 18 % on L&T 12,520

10% Estt. & Genl. Charges on Materials 11,037

Total 208,972

Or Say 208,972

REC Construction Standard No. B-32/1984

**Cost data per Km of LT Line with 3 x 16 + 25 Sqmm AB Cable over 8 Mts.
PSCC Poles at 65 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.**

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 16 | 1,619 | Each | 25,905 |
| 2 | Suspension clamp assembly with eye hook | 14 | 65 | Each | 910 |
| 3 | Dead end clamp assembly with eye hook | 4 | 80 | Each | 320 |
| 4 | Stay Set complete | 4 | 827 | Set | 3,308 |
| 5 | L.T. A.B. Cable 3 x 16 + 25 Sq.mm | 1.02 | 45,809 | K.M. | 46,725 |
| 6 | Insulated Connectors with covers | 56 | 80 | Each | 4,480 |
| 7 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 34743 |
| 8 | Misc. Items like coil earthing, danger board, bolts & nuts, etc | | | L.S | 3000 |
| Total Cost of Material | | | | | 119,391 |

3% storage & handling charges on items (1) to (6) 2,449

3% Contingencies on Materials 3,582

Labour & Transport 69,972

GST at 18 % on L&T 12,595

10% Estt. & Genl. Charges on Materials 11,939

Total 219,929

Or Say 219,929

REC Construction Standard No. B-32/1984
Cost data per Km of LT Line with 2 x 16 + 25 Sqmm AB Cable over 8 Mts.
PSCC Poles at 65 Mts. Span, 75 Kg/sq.Mt wind pressure, working load 140 Kgs.

| Sl. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|-------------------------------|---|------|-------------|----------|----------------|
| 1 | 8 M PSCC Pole | 16 | 1,619 | Each | 25,905 |
| 2 | Suspension clamp assembly with eye hook | 14 | 65 | Each | 910 |
| 3 | Dead end clamp assembly with eye hook | 4 | 80 | Each | 320 |
| 4 | Stay Set complete | 4 | 827 | Set | 3,308 |
| 5 | L.T. A.B. Cable 2 x 16 + 25 Sq.mm | 1.02 | 31,456 | K.M. | 32,085 |
| 6 | Insulated Connectors with covers | 56 | 80 | Each | 4,480 |
| 7 | Concreting of Pole, Stay sets & Base concreting | | | L.S | 34743 |
| 8 | Misc. Items like coil earthing, danger board, bolts & nuts, etc | | | L.S | 3000 |
| Total Cost of Material | | | | | 104,751 |

3% storage & handling charges on items (1) to (6) 2,010

3% Contingencies on Materials 3,143

Labour & Transport 67,720

GST at 18 % on L&T 12,190

10% Estt. & Genl. Charges on Materials 10,475

Total 200,288

Or Say 200,288

**Cost Data for Conversion of Single Phase 2 wire line to Three Phase 4 wire line
over existing 8 M PSCC poles at 65 Mts. Span, 75 Kg/sq.Mt wind pressure,
working load 140 Kgs.**

| Sl. No. | Particulars | Qty. | Rate in Rs. | Unit | Amount in Rs. |
|---------|-------------------------------------|------|-------------|------|---------------|
| 1 | 55 Sq.mm AAA conductor | 2.04 | 28459 | KM | 58056 |
| 2 | LT 3 phase X arms | 17 | 305.00 | Each | 5185 |
| 3 | Back Clamps | 17 | 67.00 | Each | 1139 |
| 4 | Shackle Insulators with metal parts | 12 | 54.7992 | Each | 657.5904 |
| 5 | Pin Insulators with pins | 45 | 54.516 | Each | 2453.22 |
| 6 | Stay sets complete | 6 | 827 | Each | 4962 |
| | Total Cost of Material | | | | 72,453 |

| | |
|---|----------------|
| 3% storage & handling charges on items (1) to (6) | 2,174 |
| 3% Contingencies on Materials | 2,174 |
| Labour & Transport | 14,300 |
| Dismantling Charges | 1,000 |
| GST at 18 % on L&T | 2,574 |
| 10% Estt. & Genl. Charges on Materials | 7,245 |
| Total | 101,920 |
| Or Say | 101,920 |

Less Credits

| | | | | | |
|---|---------------------------------|----|----|---------------------|---------------|
| 1 | Single Phase cross arms (scrap) | 51 | 11 | Kg | 561 |
| 2 | Original Erection charges | | | | 2200 |
| 3 | Dismantling charges | | | | 1100 |
| 4 | Original Estt & Genl Charges | | | | 56 |
| | Total | | | | 3917 |
| | Or Say | | | | 3917 |
| | Net Cost | | | Gross - Less | 98,003 |

REC - CONSTRUCTION STANDARD SPECIFICATION No. F3 & F4/1993

COST DATA FOR ERECTION OF 100 KVA - 11 KV/433 V CSP TRANSFORMER

| S. No. | Particulars | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|--------|--|------------------------|--------------------------|
| 1 | 11 KV/433 V 100 KVA CSP TRANSFORMER (Aluminium) | 123969.34 | 9,645 |
| 2 | Erection of 11 KV AB Switch (200A) | 6,213 | 2,063 |
| 3 | D.P. Structure | 15,682 | 16,720 |
| 4 | Erection of 11 K.V. H.G. Fuse set | 1,843 | 777 |
| 5 | Installation of L.T.H.G. Fuse sets including connections | 968 | 484 |
| 6 | L.T. Metering arrangement with CTs including cable connections and cleat arrangement | 9,710 | 866 |
| 7 | Installation of HT Lightening Arresters | 3,262 | 780 |
| 8 | C.I. Pipe earthing (3 Nos.) | 10,725 | 6,617 |
| | Total Cost of Material | 172,372 | 37,952 |
| | 3% Storage & handling charges | 5,171 | |
| | 3% Contingencies on Materials | 5,171 | |
| | Labour & Transport | 37,952 | |
| | GST at 18 % on L&T | 6,831 | |
| | 10% Estt. & General charges on Materials | 17,237 | |
| | Total Cost in Rs. | 244,735 | |
| | Or Say | 244,735 | |

REC - CONSTRUCTION STANDARD SPECIFICATION No. F3 & F4/1981

COST DATA FOR ERECTION OF 63 KVA - 11 KV/433 V CSP TRANSFORMER

| S. No. | Particulars | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|-------------------------------|---|------------------------|--------------------------|
| 1 | 11 KV/433 V 63 KVA CSP Distribution Transformer (Aluminium) | 101,960.78 | 9,645 |
| 2 | Erection of 11 KV AB Switch (200A) | 6,213 | 2,063 |
| 3 | D.P. Structure | 15,682 | 16,720 |
| 4 | Erection of 11 K.V. H.G. Fuse set | 1,843 | 777 |
| 5 | Installation of L.T.H.G. Fuse sets including connections | 968 | 484 |
| 6 | Metering arrangement with CTs including cable connections and cleat arrangement | 9,710 | 866 |
| 7 | Installation of HT Lightening Arresters | 3,262 | 780 |
| 8 | C.I. Pipe earthing (3 Nos.) | 10,725 | 6,617 |
| Total Cost of Material | | 150,364 | 37,952 |
| | 3% Storage & handling charges | 4,511 | |
| | 3% Contingencies on Materials | 4,511 | |
| | Labour & Transport | 37,952 | |
| | GST at 18 % on L&T | 6,831 | |
| | 10% Estt. & General charges on Materials | 15,036 | |
| Total Cost in Rs. | | 219,205 | |
| Or say | | 219,205 | |

REC - CONSTRUCTION STANDARD SPECIFICATION No. F3 & F4/1981

COST DATA FOR ERECTION OF 63 KVA - 11 KV/433 V TRANSFORMER

| S. No. | Particulars | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|--------|--|------------------------|--------------------------|
| 1 | 11 KV/433 V 63 KVA Distribution Transformer (Aluminium) | 101,961 | 9,645 |
| 2 | Erection of 11 KV AB Switch (200A) | 6,213 | 2,063 |
| 3 | Plinth for distribution transformer (5'x4'x8') | 0 | 4,823 |
| 4 | Erection of 11 K.V. H.G. Fuse set | 1,843 | 777 |
| 5 | Installation of L.T.H.G. Fuse sets including connections | 968 | 484 |
| 6 | L.T. Metering arrangement with CTs including cable connections and cleat arrangement | 9,710 | 866 |
| 7 | Installation of HT Lightening Arresters | 3,262 | 780 |
| 8 | C.I. Pipe earthing (3 Nos.) | 10,725 | 6,617 |
| | Total Cost of Material | 134,682 | 26,055 |
| | 3% Storage & handling charges | 4,040 | |
| | 3% Contingencies on Materials | 4,040 | |
| | Labour & Transport | 26,055 | |
| | GST at 18 % on L&T | 4,690 | |
| | 10% Estt. & General charges on Materials | 13,468 | |
| | Total Cost in Rs. | 186,975 | |
| | Or say | 186,975 | |

REC - CONSTRUCTION STANDARD SPECIFICATION No. F3 & F4/1981

COST DATA FOR ERECTION OF 63 KVA - 11 KV/433 V TRANSFORMER

| S. No. | Particulars | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|--------|--|------------------------|--------------------------|
| 1 | 11 KV/433 V 63 KVA CSP Distribution Transformer (Aluminium) | 101,961 | 9,645 |
| 2 | Erection of 11 KV AB Switch (200A) | 6,213 | 2,063 |
| 3 | Erection of structure for mounting of transformer | 3,880 | 863 |
| 4 | Erection of 11 K.V. H.G. Fuse set | 1,843 | 777 |
| 5 | Installation of L.T.H.G. Fuse sets including connections | 968 | 484 |
| 6 | L.T. Metering arrangement with CTs including cable connections and cleat arrangement | 9,710 | 866 |
| 7 | Installation of HT Lightning Arresters | 3,262 | 780 |
| 8 | C.I. Pipe earthing (3 Nos.) | 10,725 | 6,617 |
| | Total Cost of Material | 138,562 | 22,095 |
| | 3% Storage & handling charges | 4,157 | |
| | 3% Contingencies on Materials | 4,157 | |
| | Labour & Transport | 22,095 | |
| | GST at 18 % on L&T | 3,977 | |
| | 10% Estt. & General charges on Materials | 13,856 | |
| | Total Cost in Rs. | 186,804 | |
| | Or say | 186,804 | |

REC - CONSTRUCTION STANDARD SPECIFICATION No. F3 & F4/1981

COST DATA FOR ERECTION OF 100 KVA - 11 KV/433 V

CSP TRANSFORMER

| S. No. | Particulars | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|--|--|------------------------|--------------------------|
| 1 | 11 KV/433 V 100 KVA CSP Distribution Transformer (Aluminium) | 123,969 | 9,645 |
| 2 | Erection of 11 KV AB Switch (200A) | 6,213 | 2,063 |
| 3 | Construction of RCC Column type DTR Plinth of size 1'X1'X10',topslab 4'x4'x6" & beam size 4'X8'X8" | 0 | 23,144 |
| 4 | Erection of 11 K.V. H.G. Fuse set | 1,843 | 777 |
| 5 | Installation of L.T.H.G. Fuse sets including connections | 968 | 484 |
| 6 | L.T. Metering arrangement with CTs including cable connections and cleat arrangement | 9,710 | 866 |
| 7 | Installation of HT Lightning Arresters with earth connection | 3,262 | 780 |
| 8 | C.I. Pipe earthing (3 Nos.) | 10,725 | 6,617 |
| Total Cost of Material | | 156,690 | 44,376 |
| 3% Storage & handling charges | | 4,701 | |
| 3% Contingencies on Materials | | 4,701 | |
| Labour & Transport | | 44,376 | |
| GST at 18 % on L&T | | 7,988 | |
| 10% Estt. & General charges on Materials | | 15,669 | |
| Total Cost in Rs. | | 234,125 | |
| Or say | | 234,125 | |

REC - CONSTRUCTION STANDARD SPECIFICATION No. F3 & F4/1981

**COST DATA FOR ERECTION OF 25 KVA, 3-Ph, 11 KV/433 V/250 V
DISTRIBUTION TRANSFORMER (COPPER)**

| S. No. | Particulars | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|--------|--|------------------------|--------------------------|
| 1 | 11 KV/433V/250 V 25 KVA 3-Ph Distribution Transformer (Copper) | 65,524 | 9,645 |
| 2 | Erection of 11 KV AB Switch (200A) | 6,213 | 2,063 |
| 3 | Erection of 11 KV HG Fuse set | 1,843 | 777 |
| 4 | Mounting arrangements for Transformer | 3,880 | 550 |
| 5 | Installation of L.T.H.G. Fuse sets including connect | 968 | 484 |
| 6 | C.I. Pipe earthing (2 Nos.) | 7,150 | 4,411 |
| 7 | Misc. items (like bolts & nuts, washers etc.) | 500 | |
| | Total Cost of Material | 86,078 | 17,930 |
| | 3% Storage & handling charges | 2,567 | |
| | 3% Contingencies on Materials | 2,582 | |
| | Labour & Transport | 17,930 | |
| | GST at 18 % on L&T | 3,227 | |
| | 10% Estt. & General charges on Materials | 8,608 | |
| | Total Cost in Rs. | 120,993 | |
| | Or Say | 120,993 | |

COST DATA FOR ERECTION OF 25 KVA, 3-Ph, 11 KV/433 V /250 V CONVENTIONAL TRANSFORMER (Alluminium)

| S. No. | Particulars | Cost of Material (Rs.) | Labour & Transport (Rs.) |
|--------|--|------------------------|--------------------------|
| 1 | 11 KV/433V/250 V 25 KVA 3-Ph Conventional Distribution Transformer (Aluminium) | 54,721 | 9,645 |
| 2 | Erection of 11 KV AB Switch (200A) | 6,213 | 2,063 |
| 3 | Erection of 11 KV HG Fuse set | 1,843 | 777 |
| 4 | Mounting arrangements for Transformer | 3,880 | 550 |
| 5 | Installation of L.T.H.G. Fuse sets including connect | 968 | 484 |
| 6 | C.I. Pipe earthing (2 Nos.) | 7,150 | 4,411 |
| 7 | Misc. items (like bolts & nuts, washers etc.) | 500 | |
| | Total Cost of Material | 75,275 | 17,930 |
| | 3% Storage & handling charges | 2,243 | |
| | 3% Contingencies on Materials | 2,258 | |
| | Labour & Transport | 17,930 | |
| | GST at 18 % on L&T | 3,227 | |
| | 10% Estt. & General charges on Materials | 7,527 | |
| | Total Cost in Rs. | 108,461 | |
| | Or Say | 108,461 | |

REC - CONSTRUCTION STANDARD SPECIFICATION No. F-13/1987

COST DATA FOR ERECTION OF 25 KVA SINGLE PHASE 6.3 KV/0-240 V

C.S.P. TRANSFORMER ON EXISTING 8 M PSCC SUPPORT

| S. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|---|------|-------------|----------|---------------|
| 1 | 25 KVA Oil Immersed Single Phase 6.3 KV/0-240 V CSP CRGO core Transformer (Copper) | 1 | 49,185 | Each | 49,185 |
| 2 | Mounting arrangements for Transformer | 1 | 1,345 | Set | 1,345 |
| 3 | C.I. Pipe earthing | 2 | 3,575 | Each | 7,150 |
| 4 | LT Distribution Box (1-Phase) with XLPE 70 sq mm cable and 100 A fuse unit completely | 1 | 1,000 | Each | 1,000 |
| 5 | Misc. items (like bolts & nuts, washers etc.) | L.S. | 500 | L.S. | 500 |
| Total Cost of Material | | | | | 59,180 |
| 3% Storage & handling charges on items 1 to 3 | | | | | 1,730 |
| 3% Contingencies on Materials | | | | | 1,775 |
| Labour & Transport | | | | | 3,000 |
| GST at 18 % on L&T | | | | | 540 |
| 10% Estt. & General charges on Materials | | | | | 5,918 |
| Total Cost in Rs. | | | | | 72,143 |
| Or Say | | | | | 72,100 |

REC - CONSTRUCTION STANDARD SPECIFICATION No. F-13/1987
COST DATA FOR ERECTION OF 15 KVA SINGLE PHASE 6.3 KV/0-240 V
CRGO CORE C.S.P. TRANSFORMER ON EXISTING 8 M PSCC SUPPORT

| S. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---|--|------|----------------|-------------|------------------|
| 1 | 15 KVA Oil Immersed Single Phase 6.3 KV/0-240 V CRGO Core Transformer (Copper) | 1 | 25,869 | Each | 25,869 |
| 2 | Mounting arrangements for Transformer | 1 | 1,345 | Set | 1,345 |
| 3 | C.I. Pipe earthing | 2 | 3,575 | Each | 7,150 |
| 4 | LT Distribution Box (1-Phase) with XLPE 70 sq mm cable and 100 A fuses complete. | 1 | 1,000 | Each | 1,000 |
| 5 | Misc. Items | L.S. | 400 | | |
| Total Cost of Material | | | | | 35,364 |
| 3% Storage & handling charges on items 1 to 3 | | | | | 1,031 |
| 3% Contingencies on Materials | | | | | 1,061 |
| Labour & Transport | | | | | 3,000 |
| GST at 18 % on L&T | | | | | 540 |
| 10% Estt. & General charges on Materials | | | | | 3,536 |
| Total Cost in Rs. | | | | | 44,532 |
| Or Say | | | | | 44,532 |

REC - CONSTRUCTION STANDARD SPECIFICATION No. H6 & H8/1981
COST DATA FOR RELEASE OF POLY PHASE AGRICULTURAL SERVICE ERECTED
ON SUPPORT

| S. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--|--|------|----------------|-------------|------------------|
| 1 | 10-40 A with PP Box with trivector features | 1 | 2,001 | Each | 2,001 |
| 2 | 3 Phase 63 A M.C.B. | 1 | 1477 | Each | 1477 |
| 3 | P.V.C. Cable 6 Sq.mm Single Core | 90 | 8.91 | Each | 802 |
| 4 | Installation of 2 KVAR Capacitor | 1 | 550 | Each | 550 |
| 5 | Misc. items such as Bolts, Nuts & Board etc. | L.S. | 220 | L.S. | 220 |
| Total Cost of Material | | | | | 5,050 |
| 3% Contingencies on Materials | | | | | 152 |
| Labour & Transport | | | | | 733 |
| GST at 18 % on L&T | | | | | 132 |
| 10% Estt. & General charges on Materials | | | | | 505 |
| Total Cost in Rs. | | | | | 6,572 |
| Or say | | | | | 6,572 |

REC - CONSTRUCTION STANDARD SPECIFICATION No. H-1 TO H3/1981
COST DATA FOR DOMESTIC AND NON-DOMESTIC SERVICE CONNECTION (SINGLE PHASE)
WITH ELECTRONIC METER

| S. No. | Particulars | Rate | Chargeable to DISCOM | | Chargeable to Consumers | | Amount in Rs. |
|--|--|------------|----------------------|--------------|-------------------------|------------|---------------|
| | | | Qty. | Amount | Qty. | Amount | |
| 1 | Single Phase Electronic meter (5 A to 20 A) housed in a PP box | 957 Each | 1 | 957 | | | 957 |
| 2 | M.C.B. 16 A | 200.6 Each | 1 | 201 | | | 201 |
| 3 | P.V.C. Cable Single Core 2.5 Sq.mm | 5 Mts. | | | 60 | 300 | 300 |
| 4 | G.I. Wire No. 6 | 48 Kg | | | 1 | 48 | 48 |
| 5 | P.V.C. Pipe 25 mm | 30.3 Mts. | | | 2 | 61 | 61 |
| 6 | P.V.C. Bends 25 mm | 6.1 Each | | | 2 | 12 | 12 |
| 7 | Misc.items (meter board & bolts & nuts etc.) | L.S. L.S. | | 50 | | 100 | 150 |
| Total Cost of Material | | | | 1,208 | | 521 | 1,729 |
| 3% Contingencies on Materials | | | | | 36 | 16 | 52 |
| Labour & Transport | | | | | 160 | 340 | 500 |
| GST at 18 % on L&T | | | | | 29 | 61 | 90 |
| 10% Estt. & General charges on Materials | | | | | 121 | 52 | 173 |
| Total Cost in Rs. | | | | | 1,554 | 990 | 2,544 |
| Or Say | | | | | | | 2,544 |

**REC - CONSTRUCTION STANDARD SPECIFICATION No. H1 TO H3/1981
COST DATA FOR DOMESTIC AND NON-DOMESTIC SERVICE CONNECTION
(THREE PHASE) (Electronic)**

| S. No. | Particulars | Rate | Chargeable to DISCOM | | Chargeable to Consumers | | Amount in Rs. |
|--|---|-----------|----------------------|--------------|-------------------------|--------------|---------------|
| | | | Qty. | Amount | Qty. | Amount | |
| 1 | 3 Phase Electronic Energy Meter (10 A - 40 A) with PP Box | 2001 Each | 1 | 2,001 | | | 2,001 |
| 2 | 3 Phase 63 A M.C.B. | 1477 Each | 1 | 1,477 | | | 1,477 |
| 3 | P.V.C. Cable Single Core 2.5 Sq.mm | 5 Mts. | | | 120 | 600 | 600 |
| 4 | G.I. Wire No. 8 | 53 Kg | | | 1 | 53 | 53 |
| 5 | P.V.C. Pipe 40 mm | 77.5 Mts. | | | 2 | 155 | 155 |
| 6 | P.V.C. Bends 40 mm | 18.2 Each | | | 2 | 36 | 36 |
| 7 | Misc. | L.S. L.S. | | | | 75 | 75 |
| Total Cost of Material | | | | 3,478 | | 919 | 4,397 |
| 3% Contingencies on Materials | | | | | 104 | 28 | 132 |
| Labour & Transport | | | | | 320 | 440 | 760 |
| GST at 18 % on L&T | | | | | 58 | 79 | 137 |
| 10% Estt. & General charges on Materials | | | | | 348 | 92 | 440 |
| Total Cost in Rs. | | | | | 4,308 | 1,559 | 5,867 |
| Or Say | | | | | | | 5,867 |

Note: Item Nos. 3 to 7 are to be borne & arranged by the consumer as per latest APTRANSCO rules.

**REC - CONSTRUCTION STANDARD SPECIFICATION No. H-5/1981
POLY PHASE SERVICE CONNECTION CHARGES FOR ERECTION OF
1 NO. INDUSTRIAL SERVICE (BELOW 20 H.P.) (ELECTRONIC METER)**

| S. No. | Particulars | Rate | Chargeable to DISCOM | | Chargeable to Consumers | | Amount in Rs. |
|--|--|-----------|----------------------|--------------|-------------------------|--------------|---------------|
| | | | Qty. | Amount | Qty. | Amount | |
| 1 | 3-Phase (10 - 40 A) Electronic meter housed in a PP box | 2001 Each | 1 | 2,001 | | | 2,001 |
| 2 | 3 Phase 63 A M.C.B. | 1477 Each | 1 | 1,477 | | | 1,477 |
| 3 | P.V.C. Cable Single Core 10 Sq.mm | 12 Mts. | | | 80 | 960 | 960 |
| 4 | G.I. Wire 8 mm | 48 Kg | | | 1 | 48 | 48 |
| 5 | P.V.C. Pipe 40 mm | 77.5 Mts. | | | 2 | 155 | 155 |
| 6 | P.V.C. Bends 40 mm | 18.2 Each | | | 2 | 36 | 36 |
| 7 | Misc. items viz. link clips, wooden box, bolts & nuts etc. | L.S. L.S. | | 100 | | 200 | 300 |
| Total Cost of Material | | | | 3,578 | | 1,399 | 4,977 |
| 3% Contingencies on Materials | | | | 107 | | 42 | 149 |
| Labour & Transport | | | | 320 | | 440 | 760 |
| GST at 18 % on L&T | | | | 58 | | 79 | 137 |
| 10% Estt. & General charges on Materials | | | | 358 | | 140 | 498 |
| Total Cost in Rs. | | | | 4,421 | | 2,101 | 6,521 |
| Or Say | | | | | | | 6,521 |

**REC - CONSTRUCTION STANDARD SPECIFICATION No. H-5/1981
POLY PHASE SERVICE CONNECTION CHARGES FOR ERECTION OF
1 NO. INDUSTRIAL SERVICE (20 HP & ABOVE) (LT TRIVECTOR METER)**

| S. No. | Particulars | Rate | Chargeable to DISCOM | | Chargeable to Consumers | | Amount in Rs. |
|--|---|-----------|----------------------|--------------|-------------------------|--------------|---------------|
| | | | Qty. | Amount | Qty. | Amount | |
| 1 | LT TVR Meters Cl. 0.5S (Including Box & 4 CTs) | 6492 Each | 1 | 6,492 | | | 6,492 |
| 2 | 3 Phase 63 A M.C.B. | 1477 Each | 1 | 1,477 | | | 1,477 |
| 3 | P.V.C. Cable Single Core 10 Sq.mm | 15 Mts. | | | 80 | 1,200 | 1,200 |
| 4 | G.I. Wire 8 mm | 48 Kg | | | 1 | 48 | 48 |
| 5 | P.V.C. Pipe 40 mm | 77.5 Mts. | | | 2 | 155 | 155 |
| 6 | P.V.C. Bends 40 mm | 18.2 Each | | | 2 | 36 | 36 |
| 7 | Misc. items viz. link clips, wooden box, bolts & nuts etc. | L.S. L.S. | | 100 | | 200 | 300 |
| Total Cost of Material | | | | 8,069 | | 1,639 | 9,708 |
| 3% Contingencies on Materials | | | | 242 | | 49 | 291 |
| Labour & Transport | | | | 320 | | 440 | 760 |
| GST at 18 % on L&T | | | | 58 | | 79 | 137 |
| 10% Estt. & General charges on Materials | | | | 807 | | 164 | 971 |
| Total Cost in Rs. | | | | 9,496 | | 2,372 | 11,867 |
| Or Say | | | | | | | 11,867 |

**REC - CONSTRUCTION STANDARD SPECIFICATION No. H-5/1981
POLY PHASE SERVICE CONNECTION CHARGES FOR ERECTION OF
1 NO. INDUSTRIAL SERVICE (50 HP & UPTO 75 HP) (HT METERING)**

Amount in Rs.

| S. No. | Particulars | Rate | Material | | Labour | |
|--|---|-------------|------------|-------------------|--------|---------------|
| | | | Qty. | Amount | Qty. | Amount |
| 1 | DP Structure with 9.1 mts. PSCC poles | 15682 Each | 2 | 31,365 | 2 | 16,720 |
| 2 | 11 KV 400 Amps conventional type AB switch | 7,068 Each | 2 | 14,136 | 2 | 2,984 |
| 3 | 11 KV HG Fuse set | 1,843 Each | 2 | 3,686 | 2 | 1,555 |
| 4 | 3x35 sq.mm 11 KV XLPE cable | 317.67 Mts. | 30 | 9,530 | 30 | 14,460 |
| 5 | End termination suitable for 35 sq.mm XLPE (Cable outdoor type) | 1375 Each | 4 | 5,500 | 4 | 6,544 |
| 6 | G.I. earthing (3 Nos. GI Pipe) | 4012.8 Nos. | 1 | 4,013 | 1 | 3,600 |
| 7 | 11 KV CT PT 10-20/5 | 30,059 Each | 1 | 30,059 | 1 | 870 |
| 8 | HT Trivector Meter (Clause 0.2 S) | 8,271 Each | 1 | 8,271 | 1 | 3,830 |
| 9 | Special type box for Trivector meter | 5500 Each | 1 | 5,500 | 1 | 200 |
| 10 | Transport of material | | | | | 1,650 |
| 11 | Misc. items viz. link clips, wooden box, bolts & nuts etc. | L.S. | L.S. | | | 550 |
| Total Cost of Material | | | | 112,061 | | 52,963 |
| 3% Contingencies on Materials | | | | 3,362 | | |
| Labour & Transport | | | | 52,963 | | |
| GST at 18 % on L&T | | | | 9,533 | | |
| 10% Estt. & General charges on Materials | | | | 11,206 | | |
| Total Cost in Rs. | | | | 189,125 | | |
| Or Say | | | Rs. | 189,125.00 | | |

COST DATA FOR STREET LIGHT SERVICE CONNECTION (SINGLE PHASE)

| S. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|--------|---|------|-------------|----------|---------------|
| 1 | 1 Phase (5-20A) Electronic Meter housed in a PP box | 1 | 957 | Each | 957 |
| 2 | 1 Phase 20 A M.C.B. | 1 | 179 | Each | 179 |
| 3 | Light sensitive switch | 1 | 400 | Each | 400 |
| 4 | P.V.C. Cable 4 Sq.mm Single Core | 15 | 10 | Mts. | 150 |
| 5 | P.V.C. Pipe 25 mm | 2 | 30 | Mts. | 61 |
| 6 | P.V.C. Bends 25 mm | 2 | 6.10 | Each | 12 |
| 7 | Moulded Distribution Box | 1 | 250 | Each | 250 |
| 8 | Wooden, Plugs, clamps, bolts, nuts, link clips etc. | L.S. | | L.S. | 150 |
| | Total Cost of Material | | | | <u>2,158</u> |
| | 3% Contingencies on Materials | | | | 65 |
| | Labour & Transport | | | | 600 |
| | GST at 18 % on L&T | | | | 108 |
| | 10% Estt. & General charges on Materials | | | | 216 |
| | Total Cost in Rs. | | | | 3,039 |
| | Or Say | | | | 3,039 |

**COST ESTIMATE FOR ERECTION OF 1 NO. LT ELECTRONIC TRIVECTOR METERS ON
LV SIDE OF DTR**

| Sl. No. | Particulars | Qty. | Unit | Rate per (in Rs.) | Amount (in Rs.) |
|----------------|---|-------------|-------------|--------------------------|------------------------|
| 1 | LT 3-Phase class 0.5S Accuracy CT Operated Energy Meter Housed in a box with 3 Nos. CTs | 1 | Each | 6,676.44 | 6,676.44 |
| 2 | 3.5 Core 95 LT XLPE Cable (for 10 meters) to LT side of DTR with cleat wiring. | LS | | | 3,437.25 |
| | Total | | | | 10,113.69 |
| | 3% Contingencies | | | | 303.41 |
| | Fixing of CT operated meter on LV side of Distribution transformers with box including cost of lugs, clamps, GI wire and transport from district store to site. | | | | 866.00 |
| | GST at 18 % on L&T | | | | 156 |
| | 10% Estt. & Genl. Charges | | | | 1,011.37 |
| | Total Cost in Rs. | | | | 12,450.35 |
| | Or Say | | | | 12,450.00 |

**COST DATA FOR ERECTION OF 33/11 KV SUBSTATION WITH 2X8MVA POWER TRANSFORMERS AND NF = 6 NO. 11
KV FEEDERS (WITH OUT 11 KV 2 MVAR CAPACITORS BANK)**

Rs. in Lakhs

| Sl. No | | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|---|------|-------------------------|------|--------------------------|
| 1 (a) | Lands and Rights | LS | As per local conditions | | 50.00 |
| (b) | Plantation of Trees | LS | | LS | 0.15 |
| 2 | Control Room and Consumer service centre (including furniture) | LS | | LS | 12.00 |
| 3 | Station Auxillaries | | | | |
| a) | Peripheral, Security Fencing, Approach road, retaining wall around switchward with gravel filling, gate and bore well | LS | | LS | 16.50 |
| b) | Yard lighting | LS | | LS | 0.80 |
| c) | Fire fighting Equipment | LS | | LS | 0.70 |
| d) | P&T Phone and wireless set | LS | | LS | 0.05 |
| 4 | Foundations for structures, PTRs & breakers | LS | | LS | 3.30 |
| 5 | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 1.32 |
| 6 | Control Cables | LS | | LS | 1.19 |
| 7 | Structural Steel | 13 | 0.441 | MT | 5.73 |
| 8 | Transformers | | | | |
| a) | 33/11kv 8 MVA Power Transformer | 2 | 45.596 | Each | 91.19 |
| b) | 11kv / 433 v 25 kva 3-ph Stn. Transformer (CSP copper) | 1 | 0.547 | Each | 0.55 |
| 9 | Circuit Breakers (including trivector meters) | | | | |
| a) | 33 KV Group control VCB with CTs and panel | 1 | 3.976 | Each | 3.98 |
| b) | 20 KA 11 kv feeder VCB including Control panel and CTs (NF=6) | 6 | 2.458 | Each | 14.75 |
| c) | 20 KA 11 kv LV VCB including Control panel and CTs | 2 | 3.302 | Each | 6.60 |
| 10 | Control Circuit Panels | | | | |
| a) | AC Supply Panel | 1 | 0.330 | Each | 0.33 |
| b) | Alaram Panel | 1 | 0.330 | Each | 0.33 |
| 11 | Instrumnet Transformers | | | | |
| a) | 33KV PT (single unit) | 3 | 0.210 | Each | 0.63 |
| b) | 11kv P.T (3 Phase) | 1 | 0.182 | Each | 0.18 |
| 12 | Lightning Arrestors | | | | |
| a) | 33KV 10KA | 6 | 0.033 | Each | 0.20 |
| b) | 11KV Line Type (NF=6) | 18 | 0.020 | Each | 0.36 |
| c) | 11KV Station Type 10 KA | 6 | 0.020 | Each | 0.12 |
| 13 | Isolating Switches | | | | |
| a) | 33KV 800A AB Switch (Double Breaker) | 3 | 0.306 | Each | 0.92 |
| b) | 11KV 800A AB Switch (Double Breaker) | 3 | 0.169 | Each | 0.51 |
| c) | 11KV 400A AB Switch (Double Breaker) | 12 | 0.071 | Each | 0.85 |
| d) | 11KV 200A AB Switch | 1 | 0.062 | Each | 0.06 |
| e) | 11KV HG fuse Switch | 3 | 0.018 | Each | 0.06 |
| f) | 33KV Horn Gap Fuse Set (1XNT) | 2 | 0.000 | Each | 0.00 |
| 14 | Data Acquisition equipment (SIM, modem, cabling etc) | | | LS | 0.45 |
| 15 | 220 Volts 80 AH SMF Battery Set including Battery Charger and DC DB | 1 | 3.29 | Each | 3.29 |
| 16 | Earthing of Power Transformer VCBs, AB Swiches, Strucutres with 75x8mm GI Flat | | | LS | 1.98 |
| | Sub Total | | | | 219.07 |
| | 3% Contingencies on items 7 to 15 | | | | 3.93 |
| | 1% T&P Charges on items No. 7 to 15 | | | | 1.31 |
| | 10% Erection and transport and commissioning charges on items 7 to 15 | | | | 13.11 |
| | GST at 18% on L&T | | | | 2.36 |
| | 10% Establishment and General Charges | | | | 21.91 |
| | Grand Total | | | | 261.69 |

Or Say

262.00

**COST DATA FOR ERECTION OF 33/11 KV SUBSTATION WITH 2X8MVA POWER TRANSFORMERS AND
NF = 6 NO. 11 KV FEEDERS (WITH 11 KV 2 MVAR CAPACITORS BANK)**

| | | | | | Rs. in Lakhs |
|--------|---|------|-------------------------|------|-----------------------|
| Sl. No | Particulars | Qty. | Rate (Rs. in | Unit | Amount (Rs. in lakhs) |
| 1 | (a) Lands and Rights | LS | As per local conditions | | 50.00 |
| | (b) Plantation of Trees | LS | | LS | 0.15 |
| 2 | Control Room and Consumer service centre (including furniture) | LS | | LS | 12.00 |
| 3 | Station Auxillaries | | | | |
| a) | Peripheral, Security Fencing, Approach road, retaining wall around switchward with gravel filling, gate and bore well | LS | | LS | 16.50 |
| b) | Yard lighting | LS | | LS | 0.80 |
| c) | Fire fighting Equipment | LS | | LS | 0.70 |
| d) | P&T Phone and wireless set | LS | | LS | 0.05 |
| 4 | Foundations for structures, PTRs & breakers | LS | | LS | 3.30 |
| 5 | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 1.32 |
| 6 | Control Cables | LS | | LS | 1.19 |
| 7 | Structural Steel | 20 | 0.441 | MT | 8.81 |
| 8 | Transformers | | | | |
| a) | 33/11kv 8 MVA Power Transformer | 2 | 45.596 | Each | 91.19 |
| b) | 11kv / 433 v 25 kva 3-ph Stn. Transformer | 1 | 0.547 | Each | 0.55 |
| 9 | Circuit Breakers (including trivector meters) | | | | |
| a) | 33 KV Group control VCB with CTs and panel | 1 | 3.976 | Each | 3.98 |
| b) | 20 KA 11 kv feeder VCB including Control panel and CTs (NF=6) | 6 | 2.458 | Each | 14.75 |
| c) | 20 KA 11 kv LV VCB including Control panel and CTs | 2 | 3.302 | Each | 6.60 |
| 10 | Control Circuit Panels | | | | |
| a) | AC Supply Panel | 1 | 0.330 | Each | 0.33 |
| b) | Alaram Panel | 1 | 0.330 | Each | 0.33 |
| 11 | Instrumnet Transformers | | | | |
| a) | 33KV PT (single unit) | 3 | 0.210 | Each | 0.63 |
| b) | 11kv P.T (3 Phase) | 1 | 0.182 | Each | 0.18 |
| 12 | Lightning Arrestors | | | | |
| a) | 33KV 10KA | 6 | 0.033 | Each | 0.20 |
| b) | 11KV Line Type (NF=6) | 18 | 0.020 | Each | 0.36 |
| c) | 11KV Station Type 10 KA | 6 | 0.020 | Each | 0.12 |
| 13 | Isolating Switches (Double Breaker) | | | | |
| a) | 33KV 800A AB Switch (Double Breaker) | 3 | 0.306 | Each | 0.92 |
| b) | 11KV 800A AB Switch (Double Breaker) | 3 | 0.169 | Each | 0.51 |
| c) | 11KV 400A AB Switch (Double Breaker) | 12 | 0.071 | Each | 0.85 |
| d) | 11KV 200A AB Switch | 1 | 0.062 | Each | 0.06 |
| e) | 11KV HG fuse Switch | 3 | 0.018 | Each | 0.06 |
| f) | 33KV Horn Gap Fuse Set (1XNT) | 2 | 0.000 | Each | 0.00 |
| 14 | 2MVAR 11KV Capacitor Bank along with Associated Equipment (Type A) | 1 | 8.700 | Each | 8.70 |
| 15 | 220 Volts 80 AH Battery Set including Battery Charger and DC DB | 1 | 3.291 | Each | 3.29 |
| 16 | Earthing of Power Transformer VCBs, AB Swiches, Strucutres with 75x8mm GI Flat | | | LS | 1.98 |
| | Sub Total | | | | 230.40 |
| | 3% Contingencies on items 7 to 15 | | | | 4.27 |
| | 1% T&P Charges on items No. 7 to 15 | | | | 1.42 |
| | 10% Erection and transport and commissioning charges on items 7 to 15 | | | | 14.24 |
| | GST at 18% on L&T | | | | 2.56 |
| | 10% Establishment and General Charges | | | | 23.04 |
| | Grand Total | | | | 275.95 |

Or Say **276.00**

COST DATA FOR ERECTION OF 33/11KV INDOOR SUBSTATION WITH 2 Nos. 8MVA POWER TRANSFORMERS & 6 Nos. 11KV FEEDERS

| Sl. No. | PARTICULARS | QTY | RATE | UNIT | AMOUNT Rs in Lakhs |
|-----------|---|-----|-------------------------|------|-----------------------|
| 1 a) | Lands and rights | Ls | As per local conditions | | 50.00 |
| b) | Plantation of Trees | Ls | 0.15 | LS | 0.15 |
| 2 | Civil Works | | | | |
| i | Construction of Control room | LS | 22.00 | LS | 22.00 |
| ii | Compound wall, Gate,levelling of site and Borewell | LS | 4.95 | LS | 4.95 |
| iii | special foundations | | | | |
| iv | Laying of Cable Trench | LS | 3.03 | LS | 3.03 |
| v | Electrification and sanitation arrangements | LS | 0.83 | LS | 0.83 |
| vi | Construction of Transformer plinth | LS | 0.83 | LS | 0.83 |
| 3 | Station Auxillaries | | | | 0.00 |
| a) | Yard lighting | Ls | 0.55 | LS | 0.55 |
| b) | Spreading of Metal | Ls | 0.11 | LS | 0.11 |
| c) | Telephone (P &T) and wireless set | Ls | 1.38 | LS | 1.38 |
| d) | Fire fighting Equipment, Miscellenous items like Rubber Mats, Earth rods, Helmets, Gloves, Furniture, T&P etc | Ls | 1.10 | LS | 1.10 |
| e) | Water supply arrangements | Ls | 0.55 | LS | 0.55 |
| 4 | Foundations for breakers etc. | Ls | 0.66 | LS | 0.66 |
| 5 | Bus bar arrangements | Ls | 2.75 | LS | 2.75 |
| 6 | Control cables | Ls | 1.10 | LS | 1.10 |
| 7 | Power and Distribution Transformers | | | | |
| a) | 33/11 KV, 8 MVA Power Transformers | 2 | 45.596 | E | 91.19 |
| b) | 25KVA 11/04KV Station Transformer | 1 | 0.547 | E | 0.55 |
| 8 | Indoor switch gear & Control panels | | | | |
| a) | 33 KV, 25 KVA, 1250 A, 8 Panels SF-6, GIS Switch gear consisting of the following | | | | |
| i | 1250 A Transformers control cubicals 2 Nos. | | | | |
| ii | 1250 - A Incoming feeder cubicals - 3 Nos. | | | | |
| iii | 1250 - A Bus coupler - 1 No. | | | | |
| b) | 11 KV, 20 KVA, 1250 A ,14 panels SF6 GIS switch gear consisting the following equipments | 1 | 191.88 | E | 191.88 |
| i | 1250 A Transformers control cubicals 2 Nos. | | | | |
| ii | 1250 - A feeder cubicals - 6 Nos. | | | | |
| iii | 1250 - A Bus coupler - 1 No. | | | | |
| iv | Bus transformers panel - 1 No. | | | | |
| v | Adopter for station transformer - 1 No. | | | | |
| 9 | Alaram and Annunciation Panel | 1 | 0.31 | E | 0.31 |
| 10 | AC Panel | 1 | 0.33 | E | 0.33 |
| 11 | 220 Volts, 200 AH, Battery with trickle charger | 1 | 3.29 | E | 3.29 |
| 12 | Data Acquisition equipment (SIM, modem, cabling etc) | | | LS | 0.45 |
| 13 | Earthing Arrangements | | | | |
| a) | MS Flat75x8 mm for providing earthing matting complete | 2 | 0.430 | MT | 0.58 |
| b) | MS Flat 50x6 mm for earthing the equipment | 2 | 0.430 | MT | 0.58 |
| c) | Earthing electrodes & GI pipes | LS | 0.90 | LS | 0.90 |
| 14 | RS Joist 175x85/150x150(Girder poles) for base of switch gear | 1.5 | 0.4185 | MT | 0.63 |
| | Total | | | | 380.66 |
| | 3% Contingencies on Items 7 To 14 | | | | 8.72 |
| | 10% Transport, Erection and Commissioning charges on items 7 To 14 | | | | 29.07 |
| | GST at 18% on L&T | | | | 5.23 |
| | 10% Establishment and General Charges | | | | 38.07 |
| | Grand Total | | | | 461.75 |

**COST DATA FOR ERECTION OF 33/11 KV SUBSTATION WITH 9.1 Mtrs PSCC POLES, 2 X 5 MVA
POWER TRANSFORMERS AND 5 NO. 11 KV FEEDERS
(WITH 11 KV 2 MVAR CAPACITORS BANK)**

Rs. in Lakhs

| Sl. No | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|---|------|-------------------------|------|-----------------------|
| (a) | Lands and Rights | LS | As per local conditions | | 11.00 |
| (b) | Plantation of Trees | LS | | LS | 0.15 |
| 2 | Control Room and Consumer service centre (including furniture) | LS | | LS | 12.00 |
| 3 | Station Auxillaries | | | | |
| a) | Peripheral, Security Fencing, Approach road, retaining wall around switchward with gravel filling, gate and bore well | LS | | LS | 11.00 |
| b) | Yard lighting | LS | | LS | 0.80 |
| c) | Fire fighting Equipment | LS | | LS | 0.70 |
| d) | P&T Phone and wireless set | LS | | LS | 0.05 |
| 4 | Foundations for structures, PTRs & breakers | LS | | LS | 3.30 |
| 5 | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 1.32 |
| 6 | Control Cables | LS | | LS | 1.19 |
| 7 | Structural Steel | 4.5 | 0.441 | MT | 1.98 |
| 8 | 9.1 meters PSCC poles | 30 | 0.04 | Each | 1.13 |
| 9 | Transformers | | | | |
| a) | 33/11kv 5 MVA Power Transformer | 2 | 30.79 | Each | 61.57 |
| b) | 3-Phase 25 KVA (CSP) (Al) | 1 | 0.547 | Each | 0.55 |
| 10 | Circuit Breakers (including trivector meters) | | | | |
| a) | 20 KA 11 kv feeder VCB including Control panel and CTs (NF=5) | 5 | 2.458 | Each | 12.29 |
| b) | 20 KA 11 kv LV VCB including Control panel and CTs | 2 | 3.302 | Each | 6.60 |
| 11 | Control Circuit Panels | | | | |
| a) | AC Supply Panel | 1 | 0.303 | Each | 0.30 |
| b) | Alaram Panel | 1 | 0.303 | Each | 0.30 |
| 12 | Instrument Transformers | | | | |
| a) | 11kv P.T (3 Phase) | 1 | 0.182 | Each | 0.18 |
| 13 | Lightning Arrestors | | | | |
| a) | 33KV 10KA | 6 | 0.033 | Each | 0.20 |
| b) | 11KV Line Type (NF=5) | 15 | 0.020 | Each | 0.30 |
| c) | 11KV Station Type 10 KA | 6 | 0.020 | Each | 0.12 |
| 14 | Isolating Switches | | | | |
| a) | 33KV 800A AB Switch (Double Break) | 3 | 0.306 | Each | 0.92 |
| b) | 11KV 800A AB Switch (NT X 1+1) (Double Break) | 3 | 0.169 | Each | 0.51 |
| c) | 11KV 400A AB Switch (NF X 2+2) (Double Break) | 12 | 0.071 | Each | 0.85 |
| d) | 33KV Horn Gap Fuse Set (1XNT) | 2 | 0.000 | Each | 0.00 |
| 15 | Data Acquisition equipment (SIM, modem, cabling etc) | | | LS | 0.40 |
| 16 | 24 Volts 40 AH Battery Set including Battery Charger | 7 | 0.256 | Each | 1.79 |
| 17 | 2MVAR 11KV Capacitor Bank along with Associated Equipment | 1 | 8.700 | Each | 8.70 |
| 18 | Earthing of Power Transformer VCBs, AB Switches, Structures with 75x8mm GI Flat | | | LS | 1.98 |
| | Sub Total | | | | 142.19 |
| | 3% Contingencies on items 7 to 17 | | | | 2.96 |
| | 1% T&P Charges on items No. 7 to 17 | | | | 0.99 |
| | Erection and transport and commissioning charges on items 7 to 17 at 10% | | | | 9.87 |
| | GST at 18% on L&T | | | | 1.777 |
| | 10% Establishment and General Charges | | | | 14.22 |
| | Total | | | | 172.00 |

Or say **172.00**

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.

In GHMC area include 33 KV group control VCB

COST DATA FOR ERECTION OF 33/11 KV SUBSTATION WITH 9.1 Mtrs PSCC POLES, 2 X 5 MVA POWER TRANSFORMERS AND 5 NO. 11 KV FEEDERS (WITH OUT 11 KV 2 MVAR CAPACITORS BANK)

Rs. in Lakhs

| Sl. No | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|---|------|-------------------------|------|-----------------------|
| 1 (a) | Lands and Rights | LS | As per local conditions | | 11.00 |
| (b) | Plantation of Trees | LS | | LS | 0.15 |
| 2 | Control Room and Consumer service centre (including furniture) | LS | | LS | 12.00 |
| 3 | Station Auxillaries | | | | |
| a) | Peripheral, Security Fencing, Approach road, retaining wall around switchward with gravel filling, gate and bore well | LS | | LS | 11.00 |
| b) | Yard lighting | LS | | LS | 0.80 |
| c) | Fire fighting Equipment | LS | | LS | 0.70 |
| d) | P&T Phone and wireless set | LS | | LS | 0.00 |
| 4 | Foundations for structures, PTRs & breakers | LS | | LS | 3.30 |
| 5 | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 1.32 |
| 6 | Control Cables | LS | | LS | 1.19 |
| 7 | Structural Steel | 6 | 0.441 | MT | 2.64 |
| 8 | 9.1 meters PSCC poles | 38 | 0.038 | Each | 1.43 |
| 9 | Transformers | | | | |
| a) | 33/11kv 5 MVA Power Transformer | 2 | 30.79 | Each | 61.57 |
| b) | 3-Phase 25 KVA (CSP) (Al) | 1 | 0.547 | Each | 0.55 |
| 10 | Circuit Breakers (including trivector meters) | | | | |
| a) | 20 KA 11 kv feeder VCB including Control panel and CTs (NF=5) | 5 | 2.458 | Each | 12.29 |
| b) | 20 KA 11 kv LV VCB including Control panel and CTs | 2 | 2.607 | Each | 5.21 |
| 11 | Control Circuit Panels | | | | |
| a) | AC Supply Panel | 1 | 0.303 | Each | 0.30 |
| b) | Alarm Panel | 1 | 0.303 | Each | 0.30 |
| 12 | Instrument Transformers | | | | |
| a) | 11kv P.T (3 Phase) | 1 | 0.182 | Each | 0.18 |
| 13 | Lightning Arrestors | | | | |
| a) | 33KV 10KA | 6 | 0.033 | Each | 0.20 |
| b) | 11KV Line Type (NF=5) | 15 | 0.020 | Each | 0.30 |
| c) | 11KV Station Type 10 KA | 6 | 0.020 | Each | 0.12 |
| 14 | Isolating Switches | | | | |
| a) | 33KV 800A AB Switch (Double Breaker) | 3 | 0.306 | Each | 0.92 |
| b) | 11KV 800A AB Switch (NT X 1+1) (Double Breaker) | 3 | 0.169 | Each | 0.51 |
| c) | 11KV 400A AB Switch (NF X 2+2) (Double Breaker) | 12 | 0.071 | Each | 0.85 |
| d) | 33KV Horn Gap Fuse Set (1XNT) | 2 | 0.000 | Each | 0.00 |
| 15 | Data Acquisition equipment (SIM, modem, cabling etc) | | | LS | 0.40 |
| 16 | 24 Volts 40 AH Battery Set including Battery Charger | 7 | 0.256 | Each | 1.79 |
| 17 | Earthing of Power Transformer VCBs, AB Switches, Structures with 75x8mm GI Flat | | | LS | 1.80 |
| | Sub Total | | | | 132.83 |
| | 3% Contingencies on items 7 to 16 | | | | 2.69 |
| | 1% T&P Charges on items No. 7 to 16 | | | | 0.90 |
| | Erection and transport and commissioning charges on items 7 to 16 at 10% | | | | 8.96 |
| | GST at 18% on L&T | | | | 1.612 |
| | 10% Establishment and General Charges | | | | 13.28 |
| | Total | | | | 160.27 |

Or say **160.27**

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.

COST DATA FOR ERECTION OF 33/11 KV SUBSTATION WITH PSCC POLES, 1 X 5 MVA POWER TRANSFORMERS and 3 NO. 11 KV FEEDERS WITH 11 KV 2 MVAR CAPACITORS BANK

Rs. in Lakhs

| Sl. No | Particulars | Qty. | Rate (Rs. in lakhs) | Unit | Amount (Rs. in lakhs) |
|--------|---|------|---------------------|------|-----------------------|
| 1 (a) | Lands and Rights | LS | 11.00 | | 11.00 |
| (b) | Plantation of Trees | LS | | LS | 0.15 |
| 2 | Control Room and Consumer service centre (including furniture) | LS | | LS | 12.00 |
| 3 | Station Auxillaries | | | | |
| a) | Peripheral, Security Fencing, Approach road, retaining wall around switchward with gravel filling, gate and bore well | LS | | LS | 11.00 |
| b) | Yard lighting | | | | 0.80 |
| c) | Fire fighting Equipment | LS | | LS | 0.70 |
| d) | P&T Phone and wireless set | LS | | LS | 0.05 |
| 4 | Foundations for structures, PTRs & breakers | LS | | LS | 3.30 |
| 5 | Bus bars, Jumpers, Connectors claps etc. | LS | | LS | 1.32 |
| 6 | Control Cables | LS | | LS | 1.19 |
| 7 | Structural Steel | 5.5 | 0.441 | MT | 2.42 |
| 8 | 9.1 meters PSCC poles | 23 | 0.038 | Each | 0.87 |
| 9 | 8 meters PSCC poles | 8 | 0.016 | Each | 0.13 |
| 10 | Transformers | | | | |
| a) | 33/11kv 5 MVA Power Transformer | 1 | 30.79 | Each | 30.79 |
| b) | 3-Phase 25 KVA (CSP) (Al) | 1 | 0.547 | Each | 0.55 |
| 11 | Circuit Breakers (including trivector meters) | | | | |
| a) | 20 KA 11 kv feeder VCB including Control panel and CTs (NF=3) | 3 | 2.458 | Each | 7.38 |
| b) | 20 KA 11 kv LV VCB including Control panel and CTs | 1 | 2.607 | Each | 2.61 |
| 12 | Control Circuit Panels | | | | |
| a) | AC Supply Panel | 1 | 0.303 | Each | 0.30 |
| b) | Alarm Panel | 1 | 0.303 | Each | 0.30 |
| 13 | Instrument Transformers | | | | |
| a) | 11kv P.T (3 Phase) | 1 | 0.182 | Each | 0.18 |
| 14 | Lightning Arrestors | | | | |
| a) | 33KV 10KA | 6 | 0.033 | Each | 0.20 |
| b) | 11KV Line Type (NF=3) | 9 | 0.020 | Each | 0.18 |
| c) | 11KV Station Type 10 KA | 3 | 0.020 | Each | 0.06 |
| 15 | Isolating Switches | | | | |
| a) | 33KV 800A AB Switch | 3 | 0.306 | Each | 0.92 |
| b) | 11KV 800A AB Switch (NT X 1+1) | 2 | 0.169 | Each | 0.34 |
| c) | 11KV 400A AB Switch (NF X 2+2) | 8 | 0.071 | Each | 0.57 |
| d) | 33KV Horn Gap Fuse Set (1XNT) | 1 | 0.000 | Each | 0.00 |
| 16 | Data Acquisition equipment (SIM, modem, cabling etc) | | | LS | 0.30 |
| 17 | 24 Volts 40 AH Battery Set including Battery Charger | 4 | 0.256 | Each | 1.02 |
| 18 | 2MVAR 11KV Capacitor Bank along with Associated Equipment | 1 | 8.700 | Each | 8.70 |
| 19 | Earthing of Power Transformer VCBs, AB Switches, Structures with 75x8mm GI Flat | | | LS | 1.80 |
| | Sub Total | | | | 101.12 |
| | 3% Contingencies on items 7 to 17 | | | | 1.73 |
| | 1% T&P Charges on items No. 7 to 17 | | | | 0.58 |
| | 10% Erection and transport and commissioning charges on items 7 to 17 | | | | 5.78 |
| | GST at 18% on L&T | | | | 1.041 |
| | 10% Establishment and General Charges | | | | 10.11 |
| | Total | | | | 120.36 |

Or say **120.40**

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.

**Cost data for erection of 11 KV Bay Extension in existing 33/11 KV sub-station
(with RS Joist)**

| S. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---------------|---|-------------|--------------------|-----------------|----------------------|
| 1 | 150X150 mm H type beam of 8.5 mts length (2 Nos. RS Joist) | 0.5984 | 44,052.94 | MT | 26361.00 |
| 2 | 100x50 mm Channel | 0.1659 | 40,392.58 | MT | 6701.00 |
| 3 | MS flat 75x8 mm | 0.05 | 42,952.00 | MT | 2148.00 |
| 4 | AB switch 400 Amps conventional type | 1 | 7,068.20 | Each | 7068.00 |
| 5 | 200 sqmm ACSR Conductor (Panther-conductor) | 0.02 | 140,665.63 | KM | 2813.00 |
| 6 | Disc type Insulator with metal parts | 18 | 276 | Each | 4973.00 |
| 7 | Earthing arrangement (20 mts length with 75x8 MS flat (20x4.7=94) | 94 | 42.95 | KG | 4037.00 |
| 8 | Pad clamps, bolts & nuts & Miscellaneous items | LS | | | 1650.00 |
| | | | | | |
| | Sub-Total | | | | 55751.00 |
| | | | | | |
| | 3% Contingencies | | | | 1672.53 |
| | Labour & Transport | | | | 14487.11 |
| | GST at 18% on L&T | | | | 2607.680 |
| | 10% Establishment & General charges | | | | 5575.100 |
| | Grand Total | | | | 80093.42 |
| | | | | | |
| | | | or say | | 80093.00 |

**Cost data for erection of 11 KV Bay Extension in existing 33/11 KV sub-station
(with 9.1 mts PSCC poles)**

| S. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---------------|---|-------------|--------------------|-----------------|----------------------|
| 1 | 9.1 mts. PSCC poles | 2 | 3,776 | Each | 7552.00 |
| 2 | 100x50 mm Channel | 0.1659 | 40,392.58 | MT | 6701.00 |
| 3 | MS flat 75x8 mm | 0.05 | 42,952.00 | MT | 2148.00 |
| 4 | AB switch 400 Amps conventional type | 1 | 7,068.20 | Each | 7068.00 |
| 5 | 200 sqmm ACSR Conductor (Panther conductor) | 0.02 | 140,665.63 | KM | 2813.00 |
| 6 | Disc type Insulator with metal parts | 18 | 276 | Each | 4973.00 |
| 7 | Earthing arrangement (20 mts length with 75x8 MS flat (20x4.7=94) | 94 | 42.95 | KG | 4037.00 |
| 8 | Pad clamps, bolts & nuts & Miscellaneous items | LS | | | 1650.00 |
| | | | | | |
| | Sub-Total | | | | 36942.00 |
| | | | | | |
| | 3% Contingencies | | | | 1108.26 |
| | Labour & Transport | | | | 14487.11 |
| | GST at 18% on L&T | | | | 2607.680 |
| | 10% Establishment & General charges | | | | 3694.200 |
| | Grand Total | | | | 58839.25 |
| | | | | | |
| | | | or say | | 58839.00 |

Cost Data for 33 KV Bay Extension in 33/11 KV substation

| Sl.No | Description of Material | Qty | Unit | Rate | Amount in Rs. |
|-------|--|------|------|------------|---------------|
| 1 | 150 x 150 RSJ pole (8m) | 0.6 | MT | 44,052.94 | 26431.764 |
| 2 | 100 x 50 mm MS channel | 0.27 | MT | 40,392.58 | 10906 |
| 3 | 75 x 8mm flat for clamps & earthing | 0.2 | MT | 42,952.00 | 8590.4 |
| 4 | 200 sqmm Panther conductor | 0.02 | KM | 140,665.63 | 2813.3126 |
| 5 | Strain Insulator set with metal parts (each set consists 3 Nos 11 KV strain insulators) | 6 | Set | 706 | 4234 |
| 6 | Erection of 33 KV AB switch (800 Amps, Conventional) | 1 | Each | 30,585.60 | 30585.6 |
| 7 | Miscellaneous items like fabrication of channels & pad clamps etc. | | LS | | 2750 |

Sub-Total

86312

3% Contingencies

2589.35

3% S&H charges

2589.35

Labour & Transport

15129.51

GST at 18 % on L&T

2723.31

10% Estt & General charges on material

8631.15

Total

117974.18

Or Say Rs

118000.00

Cost-Data for Extention of 33KV Bay at 132/33KV Sub-station

| Sl.No. | Description | Qty | Rate | Per | Amount in Rs. |
|---------------|---|------------|-------------|------------|----------------------|
| 1 | Galvanised steel such as M.S.angles, flats, channels for TC & TD towers. (GHMC SSR Pg.83) | 5.00 | 69249 | MT | 346246 |
| 2 | Spacer clamps for 33KV bus | 9 | 508 | Each | 4572 |
| 3 | Spacer clamp with T off zebra for one feeder | 3 | 153 | Each | 459 |
| 4 | 33 KV Polymer String Insulator (B&S) | 8 | 282 | Each | 2259 |
| 5 | Tension hardware for twin zebra | 6 | 2,512 | Each | 15072 |
| 6 | Zebra condutor | 0.150 | 143869 | KM | 21580 |
| 7 | 33KV AB Switch 800 A | 1 | 30586 | Each | 30586 |
| 8 | Twin Zebra connector | 12 | 600 | Each | 7200 |
| 9 | T Clamps | 12 | 500 | Each | 6000 |
| 10 | MS.Flat 100x16 | 0.63 | 46904 | MT | 29550 |
| 11 | MS.Flat 50X8 | 0.62 | 51817 | MT | 32127 |
| 12 | GI Flat 100X16 | 0.151 | 63235 | MT | 9548 |
| 13 | GI Flat 50X8 | 0.155 | 63478 | MT | 9839 |
| 14 | Civil works for erection of towers in sub-station yard and other miscellaneous items. | | | LS | 100000 |

Sub-Total **615038**

3% S&H charges on Material 15451

3% Contingencies on Material 15451

Labour & Transport 112121

GST at 18 % on L&T 20181.78

10% Estt. & Gen. Chargtes 61504

Gross Total **839747**

Or Say in Rs. **839747**

Cost Data for erection of 11 KV breaker in sub-station

| Sl.No | Description of work | Qty | Unit | Rate | Amount in Rs. |
|--------------|--|------------|-------------|-------------|----------------------|
| 1 | 11 KV VCB along with all Accessories Including CTs | 1 | Each | 245849 | 245848.73 |
| 2 | 4x2.5 sqmm Control cable | 0.05 | KM | 73988 | 3699 |
| 3 | Earthing arrangements | LS | | | 1650 |
| 4 | Miscellaneous items like conductor and clamps etc | LS | | | 1650 |

Sub-Total **252848**

3% Contingencies 7585

3% S&H charges 7585

Labour & Transport 33031

GST at 18 % on L&T 5945.50

10% Estt & General charges 25285

Total **332280**

Or Say Rs **332280**

**Cost-Data for erection of 33 KV VCB and Twin feeder Control Pannel
at 132/33KV Sub-stations**

| S.No. | Description of work | Qty | Rate | Per | Amount in Rs. |
|-------|--|------|------------|------|------------------|
| 1 | 33 KV VCB with relay& CTs (400-200-100/1-1-1A) | 1 | 397,610.44 | Each | 397610 |
| 2 | LT PVC Copper Control Cable 10 C x2.5 Sq.mm | 0.75 | 155,595.67 | KM | 116697 |
| 3 | LT PVC Copper Control Cable 4 C x2.5 Sq.mm | 0.75 | 73,987.76 | KM | 55491 |
| 4 | 33KV LAS line type | 3 | 3,321.37 | Each | 9964 |
| 5 | 33 KV Twin feeder control panel | 1 | 418,324.95 | No | 418324.95 |
| 6 | Miscellaneous items | | | LS | 1100 |

| | |
|------------------------------|----------------|
| Sub-Total | 999187 |
| 3% S&H charges | 29976 |
| 3% Contingencies on material | 29976 |
| Labour & Transport | 86211 |
| GST 18 % on L&T | 15518.04 |
| 10% Estt. & General Charges | 99919 |
| Gross Total | 1260786 |
| Or Say Rs. | 1260786 |

Cost data for erection of 2 MVAR Capacitor Bank

| S. No. | Particulars | Qty. | Rate in Rs. | Per Unit | Amount in Rs. |
|---------------|---|-------------|--------------------|-----------------|----------------------|
| 1 | 2 MVAR 11KV Capacitor Bank along with associated Equipment (Capactors, Structure and VCB) (Type A) | 1 | 870,000.00 | Each | 870000 |
| 2 | 24 volts 40AH Battery Set including Battery Charger | 1 | 25,600.00 | Each | 25600 |
| 3 | M.S.Flat 50x6mm | 0.36 | 42,952.00 | MT | 15463 |
| 4 | Panther Conductor | 0.05 | 140,665.63 | KM | 7033 |
| 5 | 4 Core 2.5 Sqmm PVC Copper Control Cable | 0.05 | 73,987.76 | KM | 3699 |
| 6 | 10 Core 2.5 Sqmm PVC Copper Control Cable | 0.1 | 155,595.67 | KM | 15560 |
| 7 | 2 Core 2.5 Sqmm PVC Copper Control Cable | 0.06 | 40,022.45 | KM | 2401 |
| 8 | 11KV Post type insulators | 3 | 300.00 | Each | 900 |
| 9 | Cost of CI pipe of 100 mm dia, 8 mm thick and 2.75 Mts long | 2 | 3328 | Each | 6656 |
| 10 | 11KV H.G. Fuse Set with Insulators | 1 | 1,843.04 | Each | 1843 |
| 11 | 11KV LA's Station type | 3 | 2,014.80 | Each | 6044 |
| 12 | M.S. Channel 100x50mm | 0.24 | 40,392.58 | MT | 9694 |
| 13 | Miscellaneous items | LS | | | 550.00 |

| | |
|---|-------------------|
| Sub-Total | 965443.00 |
| 3% Contingencies | 28963.29 |
| Labour ,Transport & Commsioning charges | 69586.31 |
| GST at 18 % on L&T | 12525.535 |
| 10% Establishment & General charges | 96544.3 |
| Grand Total | 1173062.43 |
| or say | 1173062.00 |

Cost Data for Enhancement of capacity of existing Power Transformer from 5 MVA to 8 MVA.

| Sl.No | Particulars | Qty | Rate in Rs. | Unit | Amount in Rs. |
|-------|---|-----|--------------------|---------|----------------|
| 1 | 33/11 KV 8 MVA Power Transformer | 1 | 4559641.66 | Each | 4559642 |
| 2 | Erection of 33 KV VCB with directional relay | 1 | 397,610.44 | Each | 397610 |
| 3 | Miscellaneous Items | | | LS | 50000 |
| | | | Sub-Total | | 5007252 |
| | 3 % Storage & Handling charges | | | | 150218 |
| | 3% Contingencies on material | | | | 150218 |
| | Labour & Transport | | | | 120000 |
| | GST at 18% on L&T | | | | 21600.00 |
| | 10% Estt & General charges on material | | | | 500725 |
| | Add: Dismantling charges | | | | 50000 |
| | | | Grand Total | | 6000013 |
| | | | Or say | | 6000013 |
| | Less Credit | | | | |
| | Less Credit has to be valued as per the respective PTR book value in SAP, if data is not available in SAP, the following value may be considered. | | | | |
| 1 | 33/11KV 5 MVA Power Transformer | 1 | 3078550.84 | Each | 3078551 |
| | Depreciation 40% (Variable as per life served) | | 1231420.00 | | 1231420 |
| | | | | Net | 1847131 |
| | Original erection charges (SWR 21275 MP) | | | | 32000 |
| | Original dismantling charges | | | | 16000 |
| | 10% Estt. & General charges | | | | 184713 |
| | | | Total | | 2079844 |
| | | | Or Say | Rs. | 2079844 |
| | Net Amount = Grand total - Less credit | | 6000013 | 2079844 | 3920169 |

Cost data for laying of 3 core 300 Sq.mm 11 KV UG Cable

| Sl. No. | Description of the material | Qty | Rate | Unit | Amount |
|---------|--|------|------------|------|------------|
| 1 | Laying 11 KV 3 core 300Sq.mm UG Cable at depth of 1.20mtrs along CC road | 1.03 | 1092399.36 | KM | 1125171.34 |
| 2 | Erection of 3 way RMU (SF6) outdoor type | 1 | 480787.46 | Each | 480,787.46 |
| 3 | Straight through joints for 3 core 11KV 300Sq.mm UG Cable | 1 | 3025 | Each | 3025.00 |
| 4 | End termination suitable for 3 core 300 Sq.mm UG cable | 4 | 1925 | Each | 7700.00 |
| 5 | Earthing of Cable with GI pipe of 2mt length | 3 | 635.00 | Nos | 1905.00 |

Sub-Total **1618588.80**

3 % storage & handling charges 33755.14

3 % contingencies 33755.14

Labour and Transport 468316.42

GST at 18 % on L&T 84296.956

10 % Estt & General charges 161858.88

Grand Total **2400571.33**

Or Say **Rs** **2400571**

Cost data for laying of 3 core 400Sq.mm 33KV UG Cable

| Sl. No. | Description of the material | Qty | Rate | Unit | Amount in Rs. |
|---------|---|------|------------|------|---------------|
| 1 | Laying 33 KV 3 core 400Sq.mm UG Cable at depth of 1.20mtrs along CC road | 1.03 | 2347045.04 | KM | 2417456.39 |
| 2 | Straight through joints and end terminators suitable for 3 core 33KV 400Sq.mm UG Cable and Hume pipes and GI pipe (15% of cost cable) | 1 | 4537.5 | Each | 4537.50 |
| 3 | End termination suitable for 400 Sq.mm (outdoor type) | 2 | 2200 | Nos | 4400.00 |
| 4 | Earthing of Cable with GI pipe of 2mt length (SMR 11480 RZ PG.NO.119) | 2 | 666.00 | Nos | 1332.00 |

Sub-Total **2427725.89**

3 % Storage & handling charges 72523.69

3 % Contingencies 72523.69

Labour and Transport 545321.37

GST at 18 % on L&T 98157.847

10 % Estt & General charges 242772.59

Grand Total **3459025.08**

Or Say **Rs** **3459025**

**Erection of Galvanised "M" Tower as per ASCI Standard for span length 100m for angle deviation
20degrees to 60degrees/Cut point/Deadend**

| S. No. | Particulars | Qty. | Per Unit | Rate | Amount in Rs. |
|---------------|--|-------------|-----------------|-------------|----------------------|
| 1 | Supply of Galvanised M type tower including 6arms as per Specification. (GHMC SSR) | 1.133 | MT | 69249.20 | 78459.34 |
| 2 | Supply of Suitable Hot dip Galvanised, Zinc coated Nuts and bolts with suitable plain and spring washers. (MP SSR) | 158 | KG | 90.00 | 14220.00 |
| 3 | Fabrication of tower Parts as per Specification | 1.133 | MT | 5775.00 | 6543.08 |
| 4 | Excavation of pit including dewatering, planking, showring and shuttering(where ever necessary) and leveling a) in all types of soils such as BC, red earth, hard gravel etc., b) in hard rock sites (where blasting is prohibited) with size 1.2x1.2x3.3 mtr i.e.4.752 cum GHMC SSR | 4.752 | CUM | | 0.00 |
| 5 | Setting of stubs in position for laying of foundation of towers with 1:2:4 cc mix using 40 mm HBG metal including cost of all concreting materials, form boxes and cement and curing for 14 days (40 mm HBG metal for pyramid portion and 20 mm HBG metal for chimney portion) i.e 4.434 cu.mts including coping | 4.752 | CUM | 6515.25 | 30960.47 |
| 6 | Erection of tower parts completely as per specifications including erection of insulators with all accessories, jumpering,transport of material and bolts and nuts etc., | 1.133 | MT | 6825.00 | 7732.73 |
| 7 | Tack welding of total tower nuts and bolts | 1 | Job | 1575.00 | 1575.00 |
| 8 | Pipe earthing of towers with 40mm dia GI pipe, including cost of pipe, bentonite powder and running of GI flat etc., (MP SSR) | 2 | Each | 1553.48 | 3106.96 |
| 9 | Transport of Material to site including loading and unloading | 1.291 | MT | 2100.00 | 2711.10 |

| S. No. | Particulars | Qty. | Per Unit | Rate | Amount in Rs. |
|--------|--|-------|----------|---------------|------------------|
| 10 | Painting of sub-station structures with two coats of Aluminium paint using Aluminium paint 1st grade containing 3.6 kg of Aluminium paste for 18 litres of thinner 1st coat is to be applied before erection of tower and 2nd coat after stringing and half round welding including cost of paint, cost of brushes, labour charges etc., complete. | | | | |
| a | Material for First coat of 1st Grade Aluminium Paint, paint, brushes etc. | 1.133 | MT | 2077.00 | 2353.24 |
| b | Labour charges for painting including scratching and cleaning of tower | 1.133 | MT | 810.00 | 917.73 |
| c | Material for Second coat of 1st Grade Aluminium Paint, brushes, etc., | 1.133 | MT | 1231.00 | 1394.72 |
| d | Labour charges for painting including scratching and cleaning of tower | 1.133 | MT | 459.00 | 520.05 |
| | | | | Total: | 150494.41 |

(*) Note:-The requirement of 2nd coat is to be justified by the concerned Divisional Engineer /Executive Engineer before execution of this work

Tower details

| | | | |
|--------------|--|----------|-------------|
| 1 | Weight of M type tower | 1.133 MT | |
| 2 | Weight of 1 No. extension of 3 Mts | 0.313 MT | (313.59Kgs) |
| 3 | Weight of M+3 tower | 1.446 | |
| 4 | Weight of M+6 tower | 1.759 | |
| 5 | Weight of M+9 | 2.072 | |
| 6 | Weight of each arm | 0.015 MT | (15.17Kgs) |
| stubs | 110X110X8 = 4.56 mts | | |
| | 100X100X8=1.998 mts | | |
| | 80X80X8 =1.898 mtrs | | |
| | 65X65X6 = 2.274 mts | | |
| | 45X45X5=2.761 mtrs | | |
| | Total height 13.5 mts | | |
| | Depth of tower below ground level : 3.2 mts | | |
| | Height of tower above ground level : 10.3 mts. | | |

Erection of Galvanised K Tower as per ASCI Standard for span length 100mts for angle deviation not exceeding 2degrees

| S. No. | Particulars | Qty | Per Unit | Rate | Amount |
|---------------|---|------------|-----------------|-------------|---------------|
| 1 | Supply of Galvanised K type tower including six arms as per Specification. (MP SSR) | 0.75 | MT | 69249.20 | 51936.90 |
| 2 | Supply of Suitable Hot dip Galvanised, Zinc coated Nuts and bolts with suitable plain and spring washers.(MP SSR) | 118.27 | KG | 90.00 | 10644.30 |
| 3 | Fabrication of tower Parts as per Specification | 0.75 | MT | 5775.00 | 4331.25 |
| 4 | Excavation of pit including dewatering, planking, showing and shuttering(where ever necessary) and leveling a) in all types of soils such as BC, red earth, hard gravel etc., b) in hard rock sites (where blasting is prohibited) with size 1.0x1.0x2.5 mtr i.e.2.5 cum (GHMC SSR) | 2.5 | CUM | 0.00 | 0.00 |
| 5 | Setting of stubs in position for laying of foundation of towers with 1:2:4 cc mix using 40 mm HBG metal including cost of all concreting materials and cement, form boxes and curing for 14 days (40 mm HBG metal for pyramid portion and 20 mm HBG metal for chimney portion) i.e 3.5 cu.mts including coping (GHMC SSR) | 3.5 | CUM | 6261.15 | 21914.03 |
| 6 | Erection of tower parts completely as per specification including erection of insulators with all accessories, jumpering and bolts and nuts etc., | 0.75 | MT | 6825.00 | 5118.75 |
| 7 | Tack welding of total tower nuts and bolts | 1 | Job | 1575.00 | 1575.00 |
| 8 | Pipe earthing of towers with 40mm dia GI pipe, including cost of pipe, bentonite powder and running of GI flat etc., (MP SSR) | 2 | Each | 1553.48 | 3106.96 |
| 9 | Transport of Material to site including loading and unloading | 0.87 | MT | 2100.00 | 1827.00 |

| S. No. | Particulars | Qty | Per Unit | Rate | Amount |
|--------|--|------|----------|---------------|------------------|
| 10 | Painting of sub-station structures with two coats of Aluminium paint using Aluminium paint 1st grade containing 3.6 kg of Aluminium paste for 18 litres of thinner 1st coat is to be applied before erection of tower and 2nd coat after stringing and half round welding including cost of paint, cost of brushes, labour charges etc., complete. | | | | |
| a | Material for First coat of 1st Grade Aluminium Paint, paint, brushes etc. | 0.75 | MT | 2077.00 | 1557.75 |
| b | Labour charges for painting including scratching and cleaning of tower | 0.75 | MT | 810.00 | 607.50 |
| c | Material for Second coat of 1st Grade Aluminium Paint, brushes, etc., | 0.75 | MT | 1231.00 | 923.25 |
| d | Labour charges for painting including scratching and cleaning of tower | 0.75 | MT | 459.00 | 344.25 |
| | | | | Total: | 103886.94 |

(*) Note:-The requirement of 2nd coat is to be justified by the concerned Divisional Engineer /Executive Engineer before execution of this work

Tower details

| | | | |
|--------------|--|-----------|----------|
| 1 | Weight of K type tower including nuts&bolts | 0.75 MT | |
| 2 | Weight of 1 No. extension of 3 Mts | 0.163 MT | |
| 3 | Weight of K+3 tower | 0.913 | |
| 4 | Weight of K+6 tower | 1.076 | |
| 5 | Weight of K+9 | 1.239 | |
| 6 | Weight of each arm | 0.0097 MT | (9.7Kgs) |
| stubs | 75X75X6 = 3.76 mts | | |
| | 65X65X6=1.054 mts | | |
| | 50X50X5 =1.103 mtrs | | |
| | 45X45X5 = 3.883 mts | | |
| | 45X45X5=4.817 mtrs | | |
| | Total height 14.6 mts | | |
| | Depth of tower below ground level : 2.4 mts | | |
| | Height of tower above ground level : 12.2 mts. | | |

Erection of Galvanised L Tower as per ASCI Standard for span length 100mts for angle deviation between 2degrees to 3degrees

| S. No. | Particulars | Qty. | Per Unit | Rate | Amount |
|--------|--|-------|----------|----------|----------|
| 1 | Supply of Galvanized L type tower including six arms as per Specification. (GHMC SSR) | 0.827 | MT | 69249.20 | 57269.09 |
| 2 | Supply of Suitable Hot dip Galvanised, Zinc coated Nuts and bolts with suitable plain and spring washers. | 168 | KG | 90.00 | 15120.00 |
| 3 | Fabrication of tower Parts as per Specification | 0.827 | MT | 5775.00 | 4775.93 |
| 4 | Excavation of pit including dewatering, planking, showring and shuttering(where ever necessary) and leveling a) in all types of soils such as BC, red earth, hard gravel etc., b) in hard rock sites (where blasting is prohibited) with size 1.0x1.0x3.0 mtr i.e.3.0cum | 3 | CUM | | 0.00 |
| 5 | Setting of stubs in position for laying of foundation of towers with 1:2:4 cc mix using 40 mm HBG metal including cost of all concreting materials, form boxes and cement and curing for 14 days (40 mm HBG metal for pyramid portion and 20 mm HBG metal for chimney portion) i.e 4 cu.mts including coping | 4 | CUM | 6261.15 | 25044.60 |
| 6 | Erection of tower parts completely as per specifications including erection of insulators with all accessories, jumpering,transport of material and bolts and nuts etc., | 0.827 | MT | 6825.00 | 5644.28 |
| 7 | Tack welding of total tower nuts and bolts | 1 | Job | 1575.00 | 1575.00 |
| 8 | Pipe earthing of towers with 40mm dia GI pipe, including cost of pipe, bentonite powder and running of GI flat etc., (MP SSR) | 2 | Each | 1553.48 | 3106.96 |
| 9 | Transport of Material to site including loading and unloading | 1.22 | MT | 2100.00 | 2562.00 |

| S. No. | Particulars | Qty. | Per Unit | Rate | Amount |
|--------|--|-------|----------|---------------|------------------|
| 10 | Painting of sub-station structures with two coats of Aluminium paint using Aluminium paint 1st grade containing 3.6 kg of Aluminium paste for 18 litres of thinner 1st coat is to be applied before erection of tower and 2nd coat after stringing and half round welding including cost of paint, cost of brushes, labour charges etc., complete. | | | | |
| a | Material for First coat of 1st Grade Aluminium Paint, paint, brushes etc. | 0.827 | MT | 2077.00 | 1717.68 |
| b | Labour charges for painting including scratching and cleaning of tower | 0.827 | MT | 810.00 | 669.87 |
| c | Material for Second coat of 1st Grade Aluminium Paint, brushes, etc., | 0.827 | MT | 1231.00 | 1018.04 |
| d | Labour charges for painting including scratching and cleaning of tower | 0.827 | MT | 459.00 | 379.59 |
| | | | | Total: | 118883.03 |

(*) Note:-The requirement of 2nd coat is to be justified by the concerned Divisional Engineer /Executive Engineer before execution of this work

Tower details

| | | | |
|--------------|--|------------|----------|
| 1 | Weight of L type tower including nuts&bolts | 0.827 MT | |
| 2 | Weight of 1 No. extension of 3 Mts | 0.26325 MT | |
| 3 | Weight of L+3 tower | 1.09025 | |
| 4 | Weight of L+6 tower | 1.3535 | |
| 5 | Weight of L+9 | 1.61675 | |
| 6 | Weight of each arm | 0.0097 MT | (9.7Kgs) |
| stubs | 90X90X8 = 4.256 mts | | |
| | 80X80X8=1.998 mts | | |
| | 65X65X6 =2.898 mtrs | | |
| | 50X50X5 = 1.274 mts | | |
| | 45X45X5=2.726 mtrs | | |
| | Total height 13.15 mts | | |
| | Depth of tower below ground level : 2.9 mts | | |
| | Height of tower above ground level : 10.25mts. | | |

DATA-VIII

Extension of 3mtrs for Galvanized K Tower as per ASCI Standard for span length 100mts for angle deviation not exceeding 2degrees

| S. No | Description | Qty | Per Unit | Rate | Amount |
|-----------------|--|-------|---------------|----------|-----------------|
| Material | | | | | |
| 1 | Supply of Galvanised K+3 type tower as per Specification. (GHMC SSR) | 0.163 | MT | 69249.20 | 11287.62 |
| 2 | Supply of Suitable Hot dip Galvanised, Zinc coated Nuts and bolts with suitable plain and spring washers. (MP SSR) | 24.96 | KG | 90.00 | 2246.80 |
| 3 | Painting of sub-station structures with two coats of Aluminium paint using Aluminium paint 1st grade containing 3.6 kg of Aluminium paste for 18 litres of thinner 1st coat is to be applied before erection of tower and 2nd coat after stringing and half round welding including cost of paint, cost of brushes, labour charges etc., complete. | | | | |
| a | Material for First coat of 1st Grade Aluminium Paint, paint, brushes etc. | 0.163 | MT | 2077.00 | 338.55 |
| b | Material for Second coat of 1st Grade Aluminium Paint, brushes, etc., | 0.163 | MT | 1231.00 | 200.65 |
| | | | Total: | | 14073.62 |
| Labour | | | | | |
| 1 | Fabrication of tower Parts as per Specification | 0.163 | MT | 5775.00 | 941.33 |
| 2 | Erection of tower parts completely as per specification including erection of insulators with all accessories, jumpering and bolts and nuts etc., | 0.163 | MT | 6825.00 | 1112.48 |
| 3 | Transport of Material to site including loading and unloading | 0.19 | MT | 2100.00 | 394.73 |

| S. No | Description | Qty | Per Unit | Rate | Amount |
|-------|--|-------|----------|---------------|----------------|
| 4 | Painting of sub-station structures with two coats of Aluminium paint using Aluminium paint 1st grade containing 3.6 kg of Aluminium paste for 18 litres of thinner 1st coat is to be applied before erection of tower and 2nd coat after stringing and half round welding including cost of paint, cost of brushes, labour charges etc., complete. | | | | |
| a | Labour charges for painting including scratching and cleaning of tower | 0.163 | MT | 810.00 | 132.03 |
| b | Labour charges for painting including scratching and cleaning of tower | 0.163 | MT | 459.00 | 74.82 |
| | | | | Total: | 2655.37 |

(*) Note:-The requirement of 2nd coat is to be justified by the concerned Divisional Engineer /Executive Engineer before execution of this work

Tower details

| | | | |
|--------------|--|-----------|----------|
| 1 | Weight of K type tower including nuts&bolts | 0.75 MT | |
| 2 | Weight of 1 No. extension of 3 Mts | 0.163 MT | |
| 3 | Weight of K+3 tower | 0.913 | |
| 4 | Weight of K+6 tower | 1.076 | |
| 5 | Weight of K+9 | 1.239 | |
| 6 | Weight of each arm | 0.0097 MT | (9.7Kgs) |
| stubs | 75X75X6 = 3.76 mts | | |
| | 65X65X6=1.054 mts | | |
| | 50X50X5 =1.103 mtrs | | |
| | 45X45X5 = 3.883 mts | | |
| | 45X45X5=4.817 mtrs | | |
| | Total height 14.6 mts | | |
| | Depth of tower below ground level : 2.4 mts | | |
| | Height of tower above ground level : 12.2 mts. | | |

DATA-IX

Extension of 3mtrs for Galvanized L Tower as per ASCI Standard for span length 100mts for angle deviation between 2degrees to 3degrees

| S. No | Description | Qty. | Per Unit | Rate | Amount |
|-----------------|--|-------|---------------|----------|-----------------|
| Material | | | | | |
| 1 | Supply of Galvanized L+3 type tower as per Specification.(GHMC SSR) | 0.26 | MT | 69249.20 | 18004.79 |
| 2 | Supply of Suitable Hot dip Galvanised, Zinc coated Nuts and bolts with suitable plain and spring washers. (MP SSR) | 23.81 | KG | 90.00 | 2142.63 |
| 3 | Painting of sub-station structures with two coats of Aluminium paint using Aluminium paint 1st grade containing 3.6 kg of Aluminium paste for 18 litres of thinner 1st coat is to be applied before erection of tower and 2nd coat after stringing and half round welding including cost of paint, cost of brushes, labour charges etc., complete. | | | | |
| a | Material for First coat of 1st Grade Aluminium Paint, paint, brushes etc. | 0.26 | MT | 2077.00 | 540.02 |
| b | Material for Second coat of 1st Grade Aluminium Paint, brushes, etc., | 0.26 | MT | 1231.00 | 320.06 |
| | | | Total: | | 21007.50 |
| Labour | | | | | |
| 1 | Fabrication of tower Parts as per Specification | 0.26 | MT | 5775.00 | 1501.50 |
| 2 | Erection of tower parts completely as per specifications including erection of insulators with all accessories, jumpering,transport of meterial and bolts and nuts etc., | 0.26 | MT | 6825.00 | 1774.50 |
| 3 | Transport of Material to site including loading and unloading | 0.28 | MT | 2100.00 | 595.99 |

| S. No | Description | Qty. | Per Unit | Rate | Amount |
|-------|--|------|----------|---------------|----------------|
| 4 | Painting of sub-station structures with two coats of Aluminium paint using Aluminium paint 1st grade containing 3.6 kg of Aluminium paste for 18 litres of thinner 1st coat is to be applied before erection of tower and 2nd coat after stringing and half round welding including cost of paint, cost of brushes, labour charges etc., complete. | | | | |
| a | Labour charges for painting including scratching and cleaning of tower | 0.26 | MT | 810.00 | 210.60 |
| b | Labour charges for painting including scratching and cleaning of tower | 0.26 | MT | 459.00 | 119.34 |
| | | | | Total: | 4201.93 |

(*) Note:-The requirement of 2nd coat is to be justified by the concerned Divisional Engineer /Executive Engineer before execution of this work

Tower details

| | | | |
|--------------|--|------------|----------|
| 1 | Weight of L type tower including nuts&bolts | 0.827 MT | |
| 2 | Weight of 1 No. extension of 3 Mts | 0.26325 MT | |
| 3 | Weight of L+3 tower | 1.09025 | |
| 4 | Weight of L+6 tower | 1.3535 | |
| 5 | Weight of L+9 | 1.61675 | |
| 6 | Weight of each arm | 0.0097 MT | (9.7Kgs) |
| stubs | 90X90X8 = 4.256 mts | | |
| | 80X80X8=1.998 mts | | |
| | 65X65X6 =2.898 mtrs | | |
| | 50X50X5 = 1.274 mts | | |
| | 45X45X5=2.726 mtrs | | |
| | Total height 13.15 mts | | |
| | Depth of tower below ground level : 2.9 mts | | |
| | Height of tower above ground level : 10.25mts. | | |

DATA-X

Extension of 3mtrs for M+3 Tower as per ASCI Standard

| S. No | Description | Qty. | Per Unit | Rate | Amount |
|-----------------|--|-------|---------------|----------|-----------------|
| Material | | | | | |
| 1 | Supply of Galvanised M+3 type tower as per Specification. (GHMC SSR) | 0.31 | MT | 69249.20 | 21675.00 |
| 2 | Supply of Suitable Hot dip Galvanised, Zinc coated Nuts and bolts with suitable plain and spring washers. | 30.23 | KG | 90.00 | 2720.43 |
| 3 | Painting of sub-station structures with two coats of Aluminium paint using Aluminium paint 1st grade containing 3.6 kg of Aluminium paste for 18 litres of thinner 1st coat is to be applied before erection of tower and 2nd coat after stringing and half round welding including cost of paint, cost of brushes, labour charges etc., complete. | | | | |
| a | Material for First coat of 1st Grade Aluminium Paint, paint, brushes etc. | 0.31 | MT | 2077.00 | 650.10 |
| b | Material for Second coat of 1st Grade Aluminium Paint, brushes, etc., | 0.31 | MT | 1231.00 | 385.30 |
| | | | Total: | | 25430.83 |
| Labour | | | | | |
| 1 | Fabrication of tower Parts as per Specification | 0.31 | MT | 5775.00 | 1807.58 |
| 2 | Erection of tower parts completely as per specifications including erection of insulators with all accessories, jumpering, transport of material and bolts and nuts etc., | 0.31 | MT | 6825.00 | 2136.23 |
| 3 | Transport of Material to site including loading and unloading | 0.34 | MT | 2100.00 | 720.78 |

| S. No | Description | Qty. | Per Unit | Rate | Amount |
|-------|--|------|----------|---------------|----------------|
| 4 | Painting of sub-station structures with two coats of Aluminium paint using Aluminium paint 1st grade containing 3.6 kg of Aluminium paste for 18 litres of thinner 1st coat is to be applied before erection of tower and 2nd coat after stringing and half round welding including cost of paint, cost of brushes, labour charges etc., complete. | | | | |
| a | Labour charges for painting including scratching and cleaning of tower | 0.31 | MT | 810.00 | 253.53 |
| b | Labour charges for painting including scratching and cleaning of tower | 0.31 | MT | 459.00 | 143.67 |
| | | | | Total: | 5061.77 |

(*) Note:-The requirement of 2nd coat is to be justified by the concerned Divisional Engineer /Executive Engineer before execution of this work

Tower details

| | | | |
|--------------|--|-----------|------------|
| 1 | Weight of M type tower | 1.133 MT | |
| 2 | Weight of 1 No. extension of 3 Mts | 0.313 MT | |
| 3 | Weight of M+3 tower | 1.446 | |
| 4 | Weight of M+6 tower | 1.759 | |
| 5 | Weight of M+9 | 2.072 | |
| 6 | Weight of each arm | 0.0152 MT | (15.17KGs) |
| stubs | 110X110X8 = 4.56 mts | | |
| | 100X100X8=1.998 mts | | |
| | 80X80X8 =1.898 mtrs | | |
| | 65X65X6 = 2.274 mts | | |
| | 45X45X5=2.761 mtrs | | |
| | Total height 13.5 mts | | |
| | Depth of tower below ground level : 3.2 mts | | |
| | Height of tower above ground level : 10.3 mts. | | |

**Cost Data for Erection of 5MVA Additional Power Transformer with
33 KV Bay Extension in 33/11 KV substation**

| Sl.No | Description of Material | Qty | Unit | Rate | Amount in Rs. |
|-------|--|------|------|------------|---------------|
| 1 | 150 x 150 RSJ pole (8m) | 0.6 | MT | 44,052.94 | 26431.76 |
| 2 | 100 x 50 mm MS channel | 0.27 | MT | 40,392.58 | 10906 |
| 3 | 75 x 8mm flat for clamps & earthing | 0.4 | MT | 42,952.00 | 17180.8 |
| 4 | 200 sqmm Panther conductor | 0.02 | KM | 140,665.63 | 2813.31 |
| 5 | Strain Insulator set with metal parts (each set consists 3 Nos 11 KV strain insulators) | 6 | Set | 269 | 1614 |
| 5 | Erection of 33 KV AB switch | 1 | Each | 30,585.60 | 30585.6 |
| 6 | 5 MVA Power Transformer | 1 | Each | 3078551 | 3078550.84 |
| 7 | Foundation of Power Transformer | 1 | LS | 50000 | 50000 |
| 8 | Miscellaneous items like fabrication of channels & pad clamps etc. | | LS | | 5000 |

| | |
|--|--------------------|
| Sub-Total | 3223082.313 |
| 3% Contingencies | 96692.47 |
| 3% S&H charges | 96692.47 |
| Labour & Transport | 40938.81 |
| GST at 18 % on L&T | 7368.986 |
| 10% Estt & General charges on material | 322308.23 |
| Total | 3787083.28 |
| Or Say Rs | 3787100.00 |

**REC- CONSTRUCTION STANDARD NOS. OTHER THAN THE ITEMS INCLUDED IN
THE 33 KV 11 KV & LT LINES ERECTION AND CENTRALISED MATERIAL**

| S. No | Particulars | REC Construction Standard No./ Specification No. | Remarks/ Notes |
|--------------|--|---|-------------------------|
| 1 | 1.53 Mts. Cross arm (Channel) | M-1/1981 | 33 KV line |
| 2 | Top clamp with cleat | M-4/1984 | 33 KV line |
| 3 | Back clamp | K-1/1972 | 33 KV line & 11 KV line |
| 4 | Base concreting | K-2/1972 (R-1987) | 33 KV line & 11 KV line |
| 5 | Stay sets complete with concreting | G-1/1972 | 33 KV line & 11 KV line |
| 6 | Coil earthing | J-1/1972 | 33 KV line & 11 KV line |
| 7 | Pipe earthing | J-2/1972 | 33 KV line & 11 KV line |
| 8 | Concreting of poles | K-1/1972 | All lines |
| 9 | 8 M PSCC poles | 15/1979 | 11 KV line |
| 10 | 1.07 M Cross arm (Channel) | A-6/1972 | 11 KV line |
| 11 | Top clamp with cleat | A-7/1972 | 11 KV line |
| 12 | Bracing set with double cross arm | A-12/1972 | H.T. line |
| 13 | Guy grip dead end | G-1/1972 & SP.No.25/1983 | H.T. line |
| 14 | C.I. Knob | 31/1983 | L.T. lines |
| 15 | L.T. conductor dead end | G-2/1984 | L.T. lines |
| 16 | Guy grip dead end | G-2/1984 | L.T. lines |
| 17 | L.T. Spares | 29/1983 (R-1987) | L.T. lines |
| 18 | Spool for shackle insulator tieing | D-6/1984 | L.T. lines |
| 19 | D.P. Structure for distribution substation | F-1/1981 (R-1993) | L.T. lines |
| 20 | HT and LT conductor dead end fittings | Sp. No. 25/1983 | All lines |
| 21 | Side tie for pin insulator tieing | Sp. No. 25/1983 | All lines |
| 22 | Fibre Reinforced Plastic Cross Arms | 40/1987 | |