

DATA-1

Standard estimate for erection of 1 phase 3 wire line with an average span of 40mts. Using AA'ANT' conductor for phase and neutral /km.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|--|-------|-----|------------------|---------|------------------|---------|--------------------------|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | RCC pole 7.5 mts long | Nos. | 25 | 3632 | 90800 | 1856 | 46400 | 1(a) |
| 2 | GI 2 pin LT cross arm channel type. | Nos. | 25 | 275 | 6875 | 74 | 1850 | 2(b) |
| 3 | GI Xarm clamp LA for 7.5mts pole | Nos. | 20 | 99 | 1980 | 15 | 300 | 3(a) |
| 4 | GI Xarm clamp SA for 7.5mts pole | Nos. | 5 | 99 | 495 | 15 | 75 | 3(b) |
| 5 | GI top insulator fitting for LT & 11KV | Nos. | 25 | 148 | 3700 | 37 | 925 | 3(p) |
| 6 | GI stay rod with plate complete for 7.5 mts pole. | Set | 10 | 2182.00 | 21820 | 1280 | 12800 | Ann I (i) |
| 7 | GI nuts and bolts | Kg | 30 | 137 | 4110 | 15 | 450 | 12(b) |
| 8 | Cement Concrete 1:2:4 | Cu.mt | 12 | 4372 | 52464 | Inclusive | | As per GSR-2011, 6001(a) |
| 9 | Enameled danger board | Nos. | 25 | 173 | 4325 | 28 | 700 | 13(e) |
| 10 | AA ANT conductor | Km | 3.1 | 25638 | 79477.8 | 3713 | 11510.3 | 4(c) |
| 11 | Earthing complete with 2.5mts long, 40mm GI earthing pipe, class B, 20kgs each of salt and charcoal, excvaton, re-filling etc. | Set | 5 | 1542 | 7710 | 1114 | 5570 | 17(g) |
| 12 | LT pin insulator with GI pin | Set | 61 | 146 | 8906 | 74 | 4514 | 16(e) & 16(f) |
| 13 | LT shackle insulator with metal parts | Set | 24 | 234 | 5616 | 92 | 2208 | 16(k) & 16(l) |

Cost of Material..... ₹ 288278.80 ₹ 87302.30

Cost of Erection..... ₹ 87302.30

Total..... ₹ 375581.10

Add 1% cess..... ₹ 3755.81

Total..... ₹ 379336.91

Add 7.5% establishment charges..... ₹ 28450.27

Total..... ₹ 407787.18

Add 5% contingencies..... ₹ 20389.36

Total..... ₹ 428176.54

Rounded to ₹ 428177.00

₹ 4.28 lakhs

(Rupees Four Lakh Twenty Eight Thousand One Hundred Seventy Seven only)

DATA-2

Standard estimate for erection of 1 phase 4 wire line with an average span of 40mts. Using AA'ANT' conductor for phase and neutral /km.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|--|-------|------|------------------|-----------|------------------|----------|--------------------------|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | RCC pole 7.5 mts long | Nos. | 25 | 3632 | 90800 | 1856 | 46400 | 1(a) |
| 2 | GI 2 pin LT cross arm channel type. | Nos. | 25 | 275 | 6875 | 74 | 1850 | 2(b) |
| 3 | GI Xarm clamp LA for 7.5mts pole | Nos. | 20 | 99 | 1980 | 15 | 300 | 3(a) |
| 4 | GI Xarm clamp SA for 7.5mts pole | Nos. | 5 | 99 | 495 | 15 | 75 | 3(b) |
| 5 | GI top insulator fitting for LT & 11KV | Nos. | 25 | 148 | 3700 | 37 | 925 | 3(p) |
| 6 | GI stay rod with plate complete for 7.5 mts pole. | Set | 10 | 2182.00 | 21820 | 1280 | 12800 | Ann III (i) |
| 7 | GI nuts and bolts | Kgs | 30 | 137 | 4110 | 15 | 450 | 12(b) |
| 8 | Cement Concrete 1:2:4 | Cu.mt | 12 | 4372 | 52464 | Inclusive | | As per GSR-2011, 6001(a) |
| 9 | Enameleld danger board | Nos. | 25 | 173 | 4325 | 28 | 700 | 13(e) |
| 10 | AA ANT conductor | Km | 4.12 | 25638 | 105628.56 | 3713 | 15297.56 | 4(c) |
| 11 | Earthing complete with 2.5mts long, 40mm GI earthing pipe, class B, 20kgs each of salt and charcoal, excvaton, re-filling etc. | Set | 5 | 1542 | 7710 | 1114 | 5570 | 17(g) |
| 12 | LT pin insulator with GI pin | Set | 77 | 146 | 11242 | 74 | 5698 | 16(e) & 16(f) |
| 13 | LT shackle insulator with metal parts | Set | 32 | 234 | 7488 | 92 | 2944 | 16(k) & 16(l) |

Cost of Material..... ₹ 318637.56 ₹ 93009.56

Cost of Erection..... ₹ 93009.56

Total..... ₹ 411647.12

Add 1% cess..... ₹ 4116.47

Total..... ₹ 415763.59

Add 7.5% establishment charges..... ₹ 31182.27

Total..... ₹ 446945.86

Add 5% contingencies..... ₹ 22347.29

Total..... ₹ 469293.15

Rounded to ₹ 469293.00

₹ 4.69 lakhs

(Rupees Four Lakh Sixty Nine Thousand Two Hundred Ninety Three only)

DATA-4

Standard estimate for erection of 3 phase 6 wire line with an average span of 40mts. Using AA 'ANT' for phase and AA'GNAT' conductor for street light /km.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|---|-------|------|------------------|---------|------------------|---------|------------------|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | RCC pole 7.5 mts long | no | 15 | 3632 | 54480 | 1856 | 27840 | 1(a) |
| 2 | RCC pole 9.0 mts long | no | 10 | 5327 | 53270 | 2228 | 22280 | 1(b) |
| 3 | GI 4 pin LT cross arm channel type. | no | 25 | 657 | 16425 | 93 | 2325 | 2(d) |
| 4 | GI Xarm clamp LA for 7.5mts pole | no | 20 | 99 | 1980 | 15 | 300 | 3(a) |
| 5 | GI top insulator fitting for LT & 11KV | no | 25 | 148 | 3700 | 37 | 925 | 3(p) |
| 6 | GI stay rod with plate complete for 7.5 mts pole. | set | 10 | 2182.00 | 21820 | 1280 | 12800 | Ann III (i) |
| 7 | GI nuts and bolts | Kgs | 30 | 137 | 4110 | 15 | 450 | 12(b) |
| 8 | Cement Concrete1:2:4 | Cu.mt | 12 | 4372 | 52464 | Inclusive | | As per GSR-2011, |
| 9 | Enameleld danger board | no | 25 | 173 | 4325 | 22 | 550 | 13(e) |
| 10 | AA ANT conductor | Km | 3.1 | 25638 | 79477.8 | 3713 | 11510.3 | 4(c) |
| 11 | LT pin insulator with GI pin | set | 121 | 146 | 17666 | 74 | 8954 | 16(e) & 16(f) |
| 12 | LT shackle insulator with metal parts | set | 48 | 234 | 11232 | 92 | 4416 | 16(k) & 16(l) |
| 13 | GI Xarm clamp SA for 9.0mts pole | no | 5 | 148 | 740 | 19 | 95 | 3(d) |
| 14 | Earthing complete with 2.5mts long, 40mm GI earthing pipe, class B, 20kgs each of salt and charcoal, excvation, re-filling etc. | Set | 5 | 1542 | 7710 | 1114 | 5570 | 17(g) |
| 15 | AA 'GNAT' conductor | Km | 3.10 | 13085 | 40563.5 | 3342 | 10360.2 | 4(d) |

Cost of Material..... ₹ 369963.30 ₹ 108375.50

Cost of Erection..... ₹ 108375.50

Total..... ₹ 478338.80

Add 1% cess..... ₹ 4783.39

Total..... ₹ 483122.19

Add 7.5% establishment charges..... ₹ 36234.16

Total..... ₹ 519356.35

Add 5% contingencies..... ₹ 25967.82

Total..... ₹ 545324.17

Rounded to ₹ 545324.00

₹ 5.45 lakhs

(Rupees Five Lakh Forty Five Thousand Three Hundred Twenty Four only)

DATA-5

Standard estimate for conversion of existing 1 phase 3 wire line into 1 phase 4 wire line AA 'ANT' conductor for phase and GNAT for street light.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|--|------|------|------------------|----------|------------------|---------|----------------|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | GI 4 pin LT cross arm channel type. | no | 25 | 657 | 16425 | 93 | 2325 | 2(d) |
| 2 | GI Xarm clamp LA for 7.5mts pole. | no | 20 | 99 | 1980 | 15 | 300 | 3(a) |
| 3 | GI Xarm clamp SA for 7.5mts pole. | no | 5 | 99 | 495 | 15 | 75 | 3(b) |
| 4 | AA 'GANT' conductor. | Km | 1.03 | 13085 | 13477.55 | 3342 | 3442.26 | 4(d) |
| 5 | LT pin insulator with GI pin. | set | 20 | 146 | 2920 | 74 | 1480 | 16(e) & 16(f) |
| 6 | LT shackle insulator with metal parts. | set | 10 | 234 | 2340 | 92 | 920 | 16(k) & 16(l) |

Cost of Material..... ₹ 37637.55 ₹ 8542.26

Cost of Erection..... ₹ 8542.26

Total..... ₹ 46179.81

Add 1% cess..... ₹ 461.80

Total..... ₹ 46641.61

Add 7.5% establishment charges..... ₹ 3498.12

Total..... ₹ 50139.73

Add 5% contingencies..... ₹ 2506.99

Total..... ₹ 52646.72

Rounded to ₹ 52647.00

₹ 0.53 lakhs

(Rupees Fifty Two Thousand Six Hundred Forty Seven only)

DATA-9

Standard estimate for erection of HT & LT combined line with an average span of 65 mts using ACSR 'RACOON' for HT, AA'ANT' for phase & AA'GNAT' conductor for neutral and streetlight per Km.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|--|-------|------|------------------|----------|------------------|----------|--------------------------|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | RCC pole 9.0 mts long | Nos. | 16 | 5327 | 85232 | 2228 | 35648 | 1(a) |
| 2 | GI 2 pin LT cross arm channel type. | Nos. | 16 | 275 | 4400 | 74 | 1184 | 2(b) |
| 3 | GI 4 pin LT cross arm channel type. | no | 16 | 657 | 10512 | 93 | 1488 | 2(d) |
| 4 | GI Xarm clamp LA for 9.0mts pole | Nos. | 52 | 148 | 7696 | 19 | 988 | 3(c) |
| 5 | GI Xarm clamp SA for 9.0mts pole | Nos. | 28 | 148 | 4144 | 19 | 532 | 3(d) |
| 6 | HDGI 11 KV V Shape cross arm. | Set | 18 | 897 | 16146 | 167 | 3006 | 2(e) |
| 7 | GI top insulator fitting for LT & 11KV | Nos. | 16 | 148 | 2368 | 37 | 592 | 3(q) |
| 8 | GI stay rod with plate complete for 9.0 mts pole. | Set | 10 | 2372 | 23720 | 1346 | 13460 | Ann III (ii) |
| 9 | GI nuts and bolts | Kgs | 30 | 137 | 4110 | 15 | 450 | 12(b) |
| 10 | Cement Concrete 1:2:4 | Cu.mt | 8 | 4372 | 34976 | Inclusive | | As per GSR-2011, 6001(a) |
| 11 | Enameled danger board | Nos. | 16 | 173 | 2768 | 28 | 448 | 13(e) |
| 12 | AA ANT conductor | Km | 3.42 | 25638 | 87681.96 | 3713 | 12698.46 | 4(c) |
| 13 | LT pin insulator with GI pin | Set | 74 | 146 | 10804 | 74 | 5476 | 16(e) & 16(f) |
| 14 | LT shackle insulator with metal parts | Set | 44 | 234 | 10296 | 92 | 4048 | 16(k) & 16(l) |
| 15 | AA 'GNAT' conductor | Km | 3.10 | 13085 | 40563.5 | 3342 | 10360.2 | 4(d) |
| 16 | ACSR 'RACOON' of size (6/4.09mm) | Kms | 3.10 | 44051 | 136558.1 | 5291 | 16402.1 | 4(b) |
| 17 | 11 KV Disc Insulators 45 KN with H.D.G.I. Metal parts. | Set | 18 | 1549 | 27882 | 204 | 3672 | 16(h) & 16(g) |
| 18 | 11 KV Pin Insulator with H.D.G.I. Pin. | Set | 45 | 353 | 15885 | 74 | 3330 | 16(c) & 16(d) |
| 19 | Anticlimbing device. | Kgs | 16 | 75 | 1200 | 28 | 448 | 4(g) |
| 20 | Earthing complete with 2.5mts long, 40mm GI earthing pipe, class B, 20kgs each of salt and charcoal, excvaton, re-filling etc. | Set | 16 | 1542 | 24672 | 1114 | 17824 | 17(g) |

Cost of Material..... ₹ 551614.56 ₹ 132054.76

Cost of Erection..... ₹ 132054.76

Total..... ₹ 683669.32

Add 1% cess..... ₹ 6836.69

Total..... ₹ 690506.01

Add 7.5% establishment charges..... ₹ 51787.95

Total..... ₹ 742293.96

Add 5% contingencies..... ₹ 37114.70

Total..... ₹ 779408.66

Rounded to ₹ 779409.00

₹ 7.79 lakhs

(Rupees Seven Lakh Seventy Nine Thousand Four Hundred Nine only)

DATA-13

Standard Estimate for erection of providing HT/LT line and road cross guarding.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---|---|------|-------|---------------------------------------|----------|------------------|----------|---|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | 11KV Guard cross arm, ISMC channel 75 x 40 mm, 1.5 mts long | Nos. | 2 | 1020 | 2040 | 286 | 572 | 17(f) (weight of guard X arm channel is 10.2 Kgs) |
| 2 | HDGI stay clamps suitable for 9 mts RCC pole | Pair | 2 | 269 | 538 | 37 | 74 | 3(i) |
| 3 | HDGI nuts & bolts. | Kgs | 0.8 | 137 | 109.6 | 15 | 12 | 12(b) |
| 4 | Earthing complete | Ser | 2 | 1542 | 3084 | 1114 | 2228 | 17(g) |
| 5 | Weasel conductor. | Kms | 0.133 | 18337 | 2438.821 | 3527 | 469.091 | 4(a) |
| | | | | Cost of Material..... ₹ | 8210.42 | ₹ | 3355.091 | |
| | | | | Cost of Erection..... ₹ | 3355.09 | | | |
| | | | | Total..... ₹ | 11565.51 | | | |
| | | | | Add 1% cess.....₹ | 115.66 | | | |
| | | | | Total..... ₹ | 11681.17 | | | |
| | | | | Add 7.5% establishment charges..... ₹ | 876.09 | | | |
| | | | | Total..... ₹ | 12557.25 | | | |
| | | | | Add 5% contingencies..... ₹ | 627.86 | | | |
| | | | | Total..... ₹ | 13185.12 | | | |
| | | | | Rounded to ₹ 13185.00 | | | | |
| | | | | ₹ 0.13 lakhs | | | | |
| (Rupees Thirteen Thousand One Hundred Eighty Five only) | | | | | | | | |

DATA-14

Standard Estimate for erection of providing HT/LT line and road cross guarding.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---|---|------|-------|---------------------------------------|----------|------------------|----------|---|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | 11KV Guard cross arm, ISMC channel 75 x 40 mm, 1.5 mts long | Nos. | 2 | 1020 | 2040 | 286 | 572 | 17(f) (weight of guard X arm channel is 10.2 Kgs) |
| 2 | HDGI stay clamps suitable for 90 lb/yard rail pole. | Pair | 2 | 422 | 844 | 56 | 112 | 3(k) |
| 3 | HDGI nuts & bolts. | Kgs | 0.8 | 137 | 109.6 | 15 | 12 | 12(b) |
| 4 | Earthing complete | Ser | 2 | 1542 | 3084 | 113 | 226 | 17(g) |
| 5 | Weasel conductor. | Kms | 0.133 | 18337 | 2438.821 | 3527 | 469.091 | 4(a) |
| | | | | Cost of Material..... ₹ | 8516.42 | ₹ | 1391.091 | |
| | | | | Cost of Erection..... ₹ | 1391.09 | | | |
| | | | | Total..... ₹ | 9907.51 | | | |
| | | | | Add 1% cess.....₹ | 99.08 | | | |
| | | | | Total..... ₹ | 10006.59 | | | |
| | | | | Add 7.5% establishment charges..... ₹ | 750.49 | | | |
| | | | | Total..... ₹ | 10757.08 | | | |
| | | | | Add 5% contingencies..... ₹ | 537.85 | | | |
| | | | | Total..... ₹ | 11294.94 | | | |
| | | | | Rounded to ₹ 11295.00 | | | | |
| | | | | ₹ 0.11 lakhs | | | | |
| (Rupees Eleven Thousand Two Hundred Ninety Five only) | | | | | | | | |

DATA-15

Standard Estimate for laying of 1 Kms of 11KV XLPE, 300sq.mm Aluminium armoured cable.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|--|-----------|------|------------------|---------|------------------|----------|---------------------------|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | Supply and laying of 11KV, 3 core 300 sq.mm A2XFY Aluminium Armoured XLPE Cable through conventional open trenching method in any type of soil including hard laterite. | Kms | 1 | 1132000 | 1132000 | 232000 | 232000 | 20(c)(xxvi) |
| 2 | Supply and erection of straight through joint for 300sq.mm cable | Nos | 2 | 258000 | 516000 | 1856 | 3712 | 21(j) |
| 3 | Cable Route marker | Nos | 10 | 116 | 1160 | 156 | 1560 | 18(d) |
| 4 | Warning tape. | Route | 1 | 12824 | 12824 | Inclusive | | 26(f) |
| 5 | Excavation in any type of soil including hard laterite soil. | Cu.mts | 495 | Not Applicable | | 146 | 72270.00 | As per GSR-2011, 4005 (a) |
| 6 | Refilling of excavated soil | Cu.mts | 405 | Not Applicable | | 83 | 33615.00 | As per GSR-2011, 4012 |
| 7 | Sand for cushioning of HT underground cables. | Cu.mts | 67.5 | 600 | 40500 | 83 | 5602.5 | 26(b) |
| 8 | RCC Hume Pipe 100mm dia with required no. of collars, for road crossing. | Mts | 300 | 191 | 57300 | 25 | 7500 | 18(a) |
| 9 | Kaddapa of size 600mm length x 250mm width x 37mm thick as a protective cover for underground cables. | Mts | 700 | 50 | 35000 | Inclusive | | 26(a) |
| 11 | Reinstatement of roads | Route Kms | 1 | Not Applicable | | 818943 | 818943 | RA |

Cost of Material..... ₹ 1794784.00 Labour 1175203

Cost of Erection..... ₹ 1175203.00

Total..... ₹ 2969987.00

Add 1% cess..... ₹ 29699.87

Total..... ₹ 2999686.87

Add 7.5% establishment charges..... ₹ 224976.52

Total..... ₹ 3224663.39

Add 5% contingencies..... ₹ 161233.17

Total..... ₹ 3385896.55

Rounded to ₹ 3385897.00

₹ 33.86 lakhs

(Rupees Thirty Three Lakh Eighty Five Thousand Eight Hundred Ninety Seven only)

DATA-16

Standard Estimate for providing RMU alongwith Transformer (200KVA), LV switchboard, cable straight through joints and terminating Kits.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|--|--------|-------|------------------|---------|------------------|---------|---------------------------|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | 11KV, 3 core, 95sq.mm, Al conductor, XLPE, insulated, armoured cable (from the RMU to the transformer) | Mts | 22 | 557 | 12254 | 102 | 2244 | 20(c)(xxii) |
| 2 | 11 KV, SF6 Ring Main Unit . | No | 1 | 375000 | 375000 | 7200 | 7200 | 22(a) |
| 3 | 11KV 3 phase indoor terminating kit to be used with cables - 300sq.mm. | No | 2 | 6642 | 13284 | 1854 | 3708 | 21(e) |
| 4 | 11KV 3 phase indoor terminating kit to be used with cables - 95sq.mm. | No. | 1 | 5061 | 5061 | 1854 | 1854 | 21(f) |
| 5 | 11KV 3 phase outdoor terminating kit including sockets at 11KV end of DT to be used with cables as per - 95sq.mm. | No. | 1 | 8152 | 8152 | 1854 | 1854 | 21(g) |
| 6 | Straight Through Joining Kit for 300sqmm cable | Kit | 1 | 25800 | 25800 | 1854 | 1854 | 21(j) |
| 7 | Cable route Markers. | No. | 2 | 116 | 232 | 156 | 312 | 18(d) |
| 8 | Wire mesh boundary fencing | No. | 1 | 24950 | 24950 | Inclusive | | 26(e) |
| 9 | 200KVA distribution transformer. | No. | 1 | 194753 | 194753 | 8354 | 8354 | 8(a)(iv) |
| 10 | 1 core, 150sq.mm, Al conductor XLPE insulated 1.1KV grade unarmoured power cable (from transformer to LV distribution board) (4 runs) | Mts | 40 | 115 | 4600 | 84 | 3360 | 20(c)(v) |
| 11 | LV Switchboard for 200KVA Transformer centre. | Nos. | 1 | 197194 | 197194 | 11504 | 11504 | 22(g) |
| 12 | Excavation in any type of soil including hard laterite soil. | Cu.mts | 12.49 | Not Applicable | | 146 | 1823.54 | As per GSR-2011, 4005 (a) |
| 13 | Refilling of excavated soil | Cu.mts | 9.5 | Not Applicable | | 83 | 788.50 | As per GSR-2011, 4012 |
| 14 | Sand for cushioning of the cables in the trench. | Cu.mts | 1.72 | 600 | 1032 | 83 | 142.76 | 26(b) |
| 15 | Kaddapa of size 600mm length x 250mm width x 37mm thick as a protective cover for underground cables. | Mts | 20 | 50 | 1000 | Inclusive | | 26(a) |
| 16 | Earthing with 40mm, 8" long GI pipe with chamber. | Set | 3 | 2103 | 6309 | 1259 | 3777 | 17(h) |
| 17 | HDGI flat of size 25mm x 5mm for earthing. | Mts | 15 | 70 | 1050 | 19 | 285 | 17(i) |
| 18 | Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded granitic or basaltic stone aggregate 40 m nominal size for foundations. | Cu.mts | 2.24 | 4372.00 | 9793.28 | Inclusive | | As per GSR-2011, 6001(a) |
| 19 | Centering and shuttering including struttings, propping etc and removal of formwork. | Sq.mts | 14.25 | 215.84 | 3075.72 | Inclusive | | As per GSR-2011, 6045(i) |
| 20 | 12mm cement plaster 1:4 (1 - cement: 4 - fine sand) for foundations. | Sq.mts | 10.7 | 105.00 | 1123.5 | Inclusive | | As per GSR-2011, 11004 |

| | | | | | | | |
|---|---|--------|-----|---------|--------|-----------|--------------------------|
| 21 | Brick work using common burnt clay building bricks in cement mortar 1:4 (1 - cement: 4 - coarse sand) in foundation and plinth (b) with bricks of class designation 75 Kgs/sq.cm (wire cut bricks). | Cu.mts | 1.4 | 5319.00 | 7446.6 | Inclusive | As per GSR-2011, 5009(a) |
| <p style="text-align: right;"> Cost of Material..... ₹ 892110.10 Cost of Erection..... ₹ 49060.80 Total..... ₹ 941170.90 Add 1% cess..... ₹ 9411.71 Total..... ₹ 950582.61 Add 7.5% establishment charges..... ₹ 71293.70 Total..... ₹ 1021876.30 Add 5% contingencies..... ₹ 51093.82 Total..... ₹ 1072970.12 Rounded to ₹ 1072970.00 ₹ 10.73 lakhs </p> <p>(Rupees Ten Lakh Seventy Two Thousand Nine Hundred Seventy only)</p> | | | | | | | |

DATA-17

Standard Estimate for providing RMU alongwith Transformer (400KVA), LV switchboard, Service Pillars, cable straight through joints and terminating Kits.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|---|--------|-------|------------------|---------|------------------|---------|---------------------------|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | 11KV, 3 core, 95sq.mm, Al conductor, XLPE, insulated, armoured cable (from the RMU to the transformer) | Mts | 22 | 557 | 12254 | 102 | 2244 | 20(c)(xxii) |
| 2 | 11 KV, SF6 Ring Main Unit . | No | 1 | 375000 | 375000 | 7200 | 7200 | 22(a) |
| 3 | 11KV 3 phase indoor terminating kit to be used with cables - 300sq.mm. | No | 2 | 6642 | 13284 | 1854 | 3708 | 21(e) |
| 4 | 11KV 3 phase indoor terminating kit to be used with cables - 95sq.mm. | No. | 1 | 5061 | 5061 | 1854 | 1854 | 21(f) |
| 5 | 11KV 3 phase outdoor terminating kit including sockets at 11KV end of DT to be used with cables as per - 95sq.mm. | No. | 1 | 8152 | 8152 | 1854 | 1854 | 21(g) |
| 6 | Straight Through Joining Kit for 300sqmm cable | Kit | 1 | 25800 | 25800 | 1854 | 1854 | 21(j) |
| 7 | Cable route Markers. | No. | 2 | 116 | 232 | 156 | 312 | 18(d) |
| 8 | Wire mesh boundary fencing | No. | 1 | 24950 | 24950 | Inclusive | | 26(e) |
| 9 | 400KVA distribution transformer. | No. | 1 | 507926 | 507926 | 9282 | 9282 | 8(a)(v) |
| 10 | 1 core, 300sq.mm, Al conductor XLPE insulated 1.1KV grade unarmoured power cable (from transformer to LV distribution board) (7 runs) | Mts | 70 | 236 | 16520 | 102 | 7140 | 20(c)(xviii) |
| 11 | LV Switchboard for 400KVA Transformer centre. | Nos. | 1 | 242894 | 242894 | 11504 | 11504 | 22(f) |
| 12 | Excavation in any type of soil including hard laterite soil. | Cu.mts | 12.49 | Not Applicable | | 146 | 1823.54 | As per GSR-2011, 4005 (a) |
| 13 | Refilling of excavated soil | Cu.mts | 9.5 | Not Applicable | | 83 | 788.50 | As per GSR-2011, 4012 |
| 14 | Sand for cushioning of the cables in the trench. | Cu.mts | 1.72 | 600 | 1032 | 83 | 142.76 | 26(b) |
| 15 | Kaddapa of size 600mm length x 250mm width x 37mm thick as a protective cover for underground cables. | Mts | 20 | 50 | 1000 | Inclusive | | 26(a) |
| 16 | Earthing with 40mm, 8" long GI pipe with chamber. | Set | 3 | 2103 | 6309 | 1259 | 3777 | 17(h) |
| 17 | HDGI flat of size 25mm x 5mm for earthing. | Mts | 15 | 70 | 1050 | 19 | 285 | 17(i) |
| 18 | Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded granitic or basaltic stone aggregate 40 m nominal size for foundations. | Cu.mts | 2.24 | 4372.00 | 9793.28 | Inclusive | | As per GSR-2011, 6001(a) |
| 19 | Centering and shuttering including struttings, propping etc and removal of formwork . | Sq.mts | 14.25 | 215.84 | 3075.72 | Inclusive | | As per GSR-2011, 6045(i) |
| 20 | 12mm cement plaster 1:4 (1 - cement: 4 - fine sand) for foundations. | Sq.mts | 11.82 | 105.00 | 1241.1 | Inclusive | | As per GSR-2011, 11004 |
| 21 | Brick work using common burnt clay building bricks in cement mortar 1:4 (1 - cement: 4 - coarse sand) in foundation and plinth (b) with bricks of class designation 75 Kgs/sq.cm (wire cut bricks). | Cu.mts | 1.4 | 5319.00 | 7446.6 | Inclusive | | As per GSR-2011, 5009(a) |

Cost of Material..... ₹ 1263020.70 ₹ 53768.8

| | |
|---------------------------------------|------------|
| Cost of Erection..... ₹ | 53768.80 |
| Total..... ₹ | 1316789.50 |
| Add 1% cess..... ₹ | 13167.90 |
| Total..... ₹ | 1329957.40 |
| Add 7.5% establishment charges..... ₹ | 99746.80 |
| Total..... ₹ | 1429704.20 |
| Add 5% contingencies..... ₹ | 71485.21 |
| Total..... ₹ | 1501189.41 |

Rounded to ₹ 1501189.00

₹ 15.01 lakhs

(Rupees Fifteen Lakh One Thousand One Hundred Eighty Nine only)

DATA-18

Standard Estimate for providing RMU alongwith Transformer (630KVA), LV switchboard, Service Pillars, cable straight through joints and terminating Kits.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|---|--------|-------|------------------|---------|------------------|---------|---------------------------|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | 11KV, 3 core, 95sq.mm, Al conductor, XLPE, insulated, armoured cable (from the RMU to the transformer) | Mts | 22 | 557 | 12254 | 102 | 2244 | 20(c)(xxii) |
| 2 | 11 KV, SF6 Ring Main Unit . | No | 1 | 375000 | 375000 | 7200 | 7200 | 22(a) |
| 3 | 11KV 3 phase indoor terminating kit to be used with cables - 300sq.mm. | No | 2 | 6642 | 13284 | 1854 | 3708 | 21(e) |
| 4 | 11KV 3 phase indoor terminating kit to be used with cables - 95sq.mm. | No. | 1 | 5061 | 5061 | 1854 | 1854 | 21(f) |
| 5 | 11KV 3 phase outdoor terminating kit including sockets at 11KV end of DT to be used with cables as per - 95sq.mm. | No. | 1 | 8152 | 8152 | 1854 | 1854 | 21(g) |
| 6 | Straight Through Joining Kit for 300sqmm cable | Kit | 1 | 25800 | 25800 | 1854 | 1854 | 21(j) |
| 7 | Cable route Markers. | No. | 2 | 116 | 232 | 156 | 312 | 18(d) |
| 8 | Wire mesh boundary fencing | No. | 1 | 24950 | 24950 | Inclusive | | 26(e) |
| 9 | 630KVA distribution transformer. | No. | 1 | 699879 | 699879 | 10210 | 10210 | 8(a)(vi) |
| 10 | 1 core, 300sq.mm, Al conductor XLPE insulated 1.1KV grade unarmoured power cable (from transformer to LV distribution board) (11 runs) | Mts | 110 | 236 | 25960 | 158 | 17380 | 20(c)(xvi) |
| 11 | LV Switchboard for 630KVA Transformer centre. | Nos. | 1 | 308525 | 308525 | 14815 | 14815 | 22(e) |
| 12 | Excavation in any type of soil including hard laterite soil. | Cu.mts | 9.9 | Not Applicable | | 146 | 1445.40 | As per GSR-2011, 4005 (a) |
| 13 | Refilling of excavated soil | Cu.mts | 8.1 | Not Applicable | | 83 | 672.30 | As per GSR-2011, 4012 |
| 14 | Sand for cushioning of the cables in the trench. | Cu.mts | 1.86 | 600 | 1116 | 83 | 154.38 | 26(b) |
| 15 | Kaddapa of size 600mm length x 250mm width x 37mm thick as a protective cover for underground cables. | Mts | 20 | 50 | 1000 | Inclusive | | 26(a) |
| 16 | Earthing with 40mm, 8" long GI pipe with chamber. | No. | 3 | 2103 | 6309 | 1621 | 4863 | 17(h) |
| 17 | HDGI flat of size 25mm x 5mm for earthing. | Mts | 15 | 70 | 1050 | 19 | 285 | 17(i) |
| 18 | Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded granitic or basaltic stone aggregate 40 m nominal size for foundations. | Cu.mts | 2.24 | 4372.00 | 9793.28 | Inclusive | | As per GSR-2011, 6001(a) |
| 19 | Centering and shuttering including struttings, propping etc and removal of formwork . | Sq.mts | 14.25 | 215.84 | 3075.72 | Inclusive | | As per GSR-2011, 6045(i) |
| 20 | 12mm cement plaster 1:4 (1 - cement: 4 - fine sand) for foundations. | Sq.mts | 11.82 | 105.00 | 1241.1 | Inclusive | | As per GSR-2011, 11004 |
| 21 | Brick work using common burnt clay building bricks in cement mortar 1:4 (1 - cement: 4 - coarse sand) in foundation and plinth (b) with bricks of class designation 75 Kgs/sq.cm (wire cut bricks). | Cu.mts | 1.4 | 5319.00 | 7446.6 | Inclusive | | As per GSR-2011, 5009(a) |

Cost of Material..... ₹ 1530128.70 ₹ 68851.08

| | |
|---------------------------------------|------------|
| Cost of Erection..... ₹ | 68851.08 |
| Total..... ₹ | 1598979.78 |
| Add 1% cess..... ₹ | 15989.80 |
| Total..... ₹ | 1614969.58 |
| Add 7.5% establishment charges..... ₹ | 121122.72 |
| Total..... ₹ | 1736092.30 |
| Add 5% contingencies..... ₹ | 86804.61 |
| Total..... ₹ | 1822896.91 |

Rounded to ₹ 1822897.00

₹ 18.23 lakhs

(Rupees Eighteen Lakh Twenty Two Thousand Eight Hundred Ninety Seven only)

DATA-19

Standard estimate for laying of LT underground cable for a distance of 1 Kms.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|---|--------|------|------------------|----------|------------------|--------|---------------------------|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | 3½ core 240 sq.mm. aluminium, XLPE insulated armoured 1.1KV cable. | mts. | 100 | 1137 | 113700 | 158 | 15800 | 20(c)(xi) |
| 2 | 3½ core 185 sq.mm. aluminium, XLPE insulated armoured 1.1KV cable. | mts. | 300 | 888 | 266400 | 130 | 39000 | 20(c)(x) |
| 3 | 3½ core 95 sq.mm. aluminium, XLPE insulated armoured 1.1KV Cable . | mts. | 600 | 491 | 294600 | 84 | 50400 | 20(c)(viii) |
| 4 | 4 way, TP&N, 3 phase, 415V, 315Amps incoming, 200Amps outgoing rating type Distribution Feeder Pillar. | No. | 2 | 163620 | 327240 | 3514 | 7028 | 22(i) |
| 5 | 3 phase, 415V, 2nos of 200Amps incoming 3 TPN MCCBs and fitted with 12 Nos. 63 Amps SP, MCBs, 24nos. 32Amps SP, MCBs, 12 Nos.16 Amps SP, MCBs Distribution Service Pillar suitable for outdoor installation , made out of CRCA sheet with PU painted complete with all accessories and HDGI mounting channel 48 way Distribution Service Pillar. | No. | 4 | 93456 | 373824 | 3514 | 14056 | 22(j) |
| 5 | 3 phase, 415V, 200Amps incoming; 200Amps outgoing. 4nos. 32Amps TPN, 12nos. 16Amps SPN rating feeder type 24 way Distribution Service Pillar. | No. | 4 | 82817 | 331268 | 3074 | 12296 | 22(k) |
| 6 | Excavation in any type of soil including hard laterite soil. | Cu.mts | 405 | Not Applicable | | 146 | 59130 | As per GSR-2011, 4005 (a) |
| 7 | Refilling of excavated soil | Cu.mts | 315 | Not Applicable | | 83 | 26145 | As per GSR-2011, 4012 |
| 8 | Sand for cushioning of the cables in the trench. | Cu.mts | 67.5 | 600 | 40500 | 83 | 5602.5 | 26(b) |
| 9 | Kaddapa of size 600mm length x 250mm width x 37mm thick as a protective cover for underground cables. | Mts | 900 | 50 | 45000 | Inclusive | | 26(a) |
| 10 | Class B HDGI pipe of diameter 50 mm dia. | Mts | 100 | 210 | 21000 | 10 | 1000 | 17(b) |
| 11 | Earthing with 40mm, 8" long GI pipe complete. | No. | 3 | 1542 | 4626 | 1114 | 3342 | 17(g) |
| 12 | HDGI flat of size 25mm x 5mm for earthing. | Mts | 15 | 70 | 1050 | 19 | 285 | 17(i) |
| 13 | Cable route Makers (for entire route length) | No. | 10 | 116 | 1160 | 156 | 1560 | 18(d) |
| 14 | Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded granitic or basaltic stone aggregate 40 m nominal size for foundations. | Cu.mts | 4.02 | 4372.00 | 17575.44 | Inclusive | | As per GSR-2011, 6001(a) |
| 15 | Centering and shuttering including struttings, propping etc and removal of formwork . | Sq.mts | 41.5 | 215.84 | 8957.36 | Inclusive | | As per GSR-2011, 6045(i) |

| | | | | | | | | |
|--|--|-----------|-------|----------------|--------|-----------|--------|------------------------|
| 16 | 12mm cement plaster 1:4 (1 - cement: 4 - fine sand) for foundations. | Sq.mts | 22.02 | 105.00 | 2312.1 | Inclusive | | As per GSR-2011, 11004 |
| 17 | Reinstatement of roads | Route Kms | 1 | Not Applicable | | 818943 | 818943 | RA |
| <p style="text-align: right;">Cost of Material..... ₹ 1849212.9 Rs. 1054587.5</p> <p style="text-align: right;">Cost of Erection..... ₹ 1054587.5</p> <p style="text-align: right;">Total..... ₹ 2903800.4</p> <p style="text-align: right;">Add 1% cess..... ₹ 29038.004</p> <p style="text-align: right;">Total..... ₹ 2932838.404</p> <p style="text-align: right;">Add 7.5% establishment charges..... ₹ 219962.8803</p> <p style="text-align: right;">Total..... ₹ 3152801.284</p> <p style="text-align: right;">Add 5% contingencies..... ₹ 157640.0642</p> <p style="text-align: right;">Total..... ₹ 3310441.349</p> <p style="text-align: center;">Rounded to ₹ 3310441</p> <p style="text-align: center;">₹ 33.1 lakhs</p> <p>(Rupees Thirty Three Lakh Ten Thousand Four Hundred Forty One only)</p> | | | | | | | | |

Data-20

Standard Estimate for laying of 1 Kms of 33KV XLPE, 400sq.mm (Single Circuit) Aluminium armoured cable underground.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|-------------------------------|--|-----------|------|------------------|---------|------------------|--------|---------------------------|
| | | | | Rate | Amt | Rate | Amt | |
| A) 33KV Conversion/Kms | | | | | | | | |
| 1 | Supply and laying of 33KV, 3 core 400 sq.mm A2XFY Aluminium Armoured XLPE Cable through conventional open trenching method in any type of soil including hard laterite. | Kms | 1 | 2106000 | 2106000 | 176000 | 176000 | 20(c)(xxvii) |
| 2 | Supply and erection of straight through joint for 400sq.mm cable | Kits | 4 | 42600 | 170400 | 2785 | 11140 | 21(n) |
| 3 | Route marker | Nos | 10 | 116 | 1160 | 156 | 1560 | 18(d) |
| 4 | Warning tape. | Route Kms | 1 | 12824 | 12824 | Inclusive | | 26(f) |
| 5 | Excavation in any type of soil including hard laterite soil. | Cu.mts | 585 | Not Applicable | | 146 | 85410 | As per GSR-2011, 4005 (a) |
| 6 | Backfilling of available excavated earth. | Cu.mts | 495 | Not Applicable | | 83 | 41085 | As per GSR-2011, 4012 |
| 7 | Sand for cushioning of HT underground cables. | Cu.mts | 67.5 | 600 | 40500 | 83 | 5602.5 | 26(b) |
| 8 | RCC Hume Pipe 150mm dia with required no. of collars, for road crossing. | Mts | 200 | 258 | 51600 | 50 | 10000 | 18(b) |
| 9 | Kaddapa of size 600mm length x 250mm width x 37mm thick as a protective cover for underground cables. | Mts | 800 | 50 | 40000 | Inclusive | | 26(a) |
| 10 | Reinstatement of roads | Route Kms | 1 | Not Applicable | | 818943 | 818943 | RA |

Cost of Material..... ₹ 2422484.00 Labour 1149741

Cost of Erection..... ₹ 1149741.00

Total..... ₹ 3572225.00

Add 1% cess..... ₹ 35722.25

Total..... ₹ 3607947.25

Add 7.5% establishment charges..... ₹ 270596.04

Total..... ₹ 3878543.29

Add 5% contingencies..... ₹ 193927.16

Total..... ₹ 4072470.46

Rounded to ₹ 4072470.00

₹ 40.72 lakhs

(Rupees Forty Lakh Seventy Two Thousand Four Hundred Seventy only)

Data-21

Standard Estimate for laying of 1 Kms of 33KV XLPE, 400sq.mm (Double Circuit) Aluminium armoured cable underground.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|--|---|-----------|-------|------------------|---------|------------------|----------|---------------------------|
| | | | | Rate | Amt | Rate | Amt | |
| A) 33KV Conversion/Kms | | | | | | | | |
| 1 | Supply and laying of 33KV, 3 core 400 sq.mm A2XFY Aluminium Armoured XLPE Cable through conventional open trenching method in any type of soil including hard laterite. | Kms | 2 | 2106000 | 4212000 | 176000 | 352000 | 20(c)(xxvii) |
| 4 | Supply and erection of straight through joint for 400sq.mm cable | Kits | 8 | 42600 | 340800 | 2785 | 22280 | 21(n) |
| 5 | Route marker | Nos | 10 | 116 | 1160 | 156 | 1560 | 18(d) |
| 6 | Warning tape. | Route Kms | 1 | 12824 | 12824 | Inclusive | | 26(f) |
| 7 | Excavation in any type of soil including hard laterite soil. | Cu.mts | 715 | Not Applicable | | 146 | 104390 | As per GSR-2011, 4005 (a) |
| 8 | Backfilling of available excavated earth. | Cu.mts | 605 | Not Applicable | | 83 | 50215 | As per GSR-2011, 4012 |
| 10 | Sand for cushioning of HT underground cables. | Cu.mts | 24.75 | 600 | 14850 | 83 | 2054.25 | 26(b) |
| 11 | RCC Hume Pipe 250mm dia with required no. of collars, for road crossing. | Mts | 200 | 478 | 95600 | 100 | 20000 | 18(c) |
| 12 | Kaddapa of size 600mm length x 250mm width x 37mm thick as a protective cover for underground cables. | Mts | 800 | 50 | 40000 | Inclusive | | 26(a) |
| 16 | Reinstatement of roads | Route Kms | 0.3 | Not Applicable | | 818943 | 245682.9 | RA |
| <p align="right"> Cost of Material..... ₹ 4717234.00 Labour 798182 Cost of Erection..... ₹ 798182.00 Total..... ₹ 5515416.00 Add 1% cess..... ₹ 55154.16 Total..... ₹ 5570570.16 Add 7.5% establishment charges..... ₹ 417792.76 Total..... ₹ 5988362.92 Add 5% contingencies..... ₹ 299418.15 Total..... ₹ 6287781.07 Rounded to ₹ 6287781.00 ₹ 62.88 lakhs (Rupees Sixty Two Lakh Eighty Seven Thousand Seven Hundred Eighty One only) </p> | | | | | | | | |

Data-22

Standard Estimate for erection of 33 KV double circuit line with ACSR 'Racoon' conductor with an average span of 100 mts, per Km.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|---|--------|-----|------------------|----------|------------------|---------|---|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | Rail pole 105 lb/yd 13 mts long. | Nos. | 12 | 36785 | 441420 | 18508 | 222096 | 1(d) (weight of 13mts long 105b/yd rail pole is 661 Kgs.) |
| 2 | GI nuts & bolts. | Kgs | 30 | 137 | 4110 | 15 | 450 | 12(b) |
| 3 | Cement Concrete 1:2:4. | Cu.mts | 6 | 4372 | 26232 | Inclusive | | As per GSR-2011, |
| 4 | Enamelled danger board. | Nos. | 12 | 173 | 2076 | 28 | 336 | 13(e) |
| 5 | ACSR 'RACOON' CONDUCTOR. | Kms | 6.2 | 44051 | 273116.2 | 5291 | 32804.2 | 4(b) |
| 6 | Anticlimbing device. | Kgs | 12 | 75 | 900 | 28 | 336 | 4(h) |
| 7 | G.I wire 8 SWG. | Kgs | 120 | 75 | 9000 | 28 | 3360 | 4(h) |
| 8 | Earthing with 50mm, 8' long G.I pipe etc. | Set | 12 | 1542 | 18504 | 1114 | 13368 | 17(g) |
| 9 | Steel for DP with fabrication, clamps etc. | Kgs | 700 | 54.6 | 38220 | 28 | 19600 | 5(a) |
| 10 | G.I. 33KV 'V' Shape cross arms | Nos. | 35 | 1372 | 48020 | 204 | 7140 | 2(f) |
| 11 | 33 KV Pin Insulators with G.I. Pins | Set | 66 | 1266 | 83556 | 148 | 9768 | 16(a) & 16(b) |
| 12 | Disc insulator 70 KN string of 3 disc with metal parts. | Set | 36 | 2349 | 84564 | 306 | 11016 | 16(g) |
| 13 | Painting of Rail poles which includes scrapping of old paint. | Set | 21 | 347 | 7287 | 100 | 2100 | (1.5lts of Al. Paint and 0.75 lts of Red oxide paint.) |
| 14 | G.I. Stay rod with palte complete for 33 KV. | Set | 5 | 4265 | 21325 | 1532 | 7660 | Ann III(v) |
| 15 | G.I. Cross arms clamps L.A. for 105 Lb/yd with packing pieces | Nos. | 30 | 290 | 8700 | 28 | 840 | 3(v) |
| 16 | G.I. Cross arms clamps S.A. for 105 Lb/yd | Nos. | 5 | 290 | 1450 | 28 | 140 | 3(v) |

Cost of Material..... ₹ 1068480.00 Labour 331014

Cost of Erection..... ₹ 331014.00

Total..... ₹ 1399494.00

Add 1% cess..... ₹ 13994.94

Total..... ₹ 1413488.94

Add 7.5% establishment charges..... ₹ 106011.67

Total..... ₹ 1519500.61

Add 5% contingencies..... ₹ 75975.03

Total..... ₹ 1595475.64

Rounded to ₹ 1595476.00

₹ 15.95 lakhs

(Rupees Fifteen Lakh Ninety Five Thousand Four Hundred Seventy Six only)

Data-23

Standard Estimate for erection of 33 KV tapping structure.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|--|--|--------|------|---------------------------------------|-----------|------------------|--------|---|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | Rail pole 105 lb/yd 13 mts long. | Nos. | 2 | 36785 | 73570 | 18508 | 37016 | 1(d) (weight of 13mts long 105b/yd rail pole is 661 Kgs.) |
| 2 | GI nuts & bolts. | Kgs | 10 | 137 | 1370 | 15 | 150 | 12(b) |
| 3 | Cement Concrete 1:2:4. | Cu.mts | 2 | 4372 | 8744 | Inclusive | | As per GSR-2011, 6001(a) |
| 4 | Enamelled danger board. | Nos. | 2 | 173 | 346 | 28 | 56 | 13(e) |
| 5 | Anticlimbing device. | Kms | 2 | 75 | 150 | 28 | 56 | 4(h) |
| 6 | ACSR ' RACOON ' CONDUCTOR. | Kms | 0.05 | 44051 | 2202.55 | 5291 | 264.55 | 4(b) |
| 7 | Earthing with 50mm, 8' long G.I pipe etc. | Kgs | 2 | 1542 | 3084 | 1114 | 2228 | 17(g) |
| 8 | Steel for DP with fabrication, clamps etc. | Set | 110 | 54.6 | 6006 | 28 | 3080 | 5(a) |
| 9 | Disc insulator 70 KN with metal parts. | Kgs | 6 | 2349 | 14094 | 306 | 1836 | 16(g) |
| 10 | G.I. Stay rod with palte complete for 33 KV. | Nos. | 2 | 4265 | 8530 | 1532 | 3064 | Ann III(v) |
| 11 | 33 KV GOAB Switch 630A | Set | 1 | 48114 | 48114 | 4641 | 4641 | 9(c) |
| | | | | Cost of Material..... ₹ | 166211.00 | Labour | 52392 | |
| | | | | Cost of Erection..... ₹ | 52392.00 | | | |
| | | | | Total..... ₹ | 218603.00 | | | |
| | | | | Add 1% cess.....₹ | 2186.03 | | | |
| | | | | Total..... ₹ | 220789.03 | | | |
| | | | | Add 7.5% establishment charges..... ₹ | 16559.18 | | | |
| | | | | Total..... ₹ | 237348.21 | | | |
| | | | | Add 5% contingencies..... ₹ | 11867.41 | | | |
| | | | | Total..... ₹ | 249215.62 | | | |
| | | | | Rounded to ₹ 249216.00 | | | | |
| | | | | ₹ 2.49 lakhs | | | | |
| (Rupees Two Lakh Forty Nine Thousand Two Hundred Sixteen only) | | | | | | | | |

Data-24

Standard Estimate for erection of 3 pole 33 KV tapping structure.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---|--|--------|------|---------------------------------------|-----------|------------------|--------|---|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | Rail pole 90lb/yd 13 mts long. | Nos. | 3 | 36785 | 110355 | 18508 | 55524 | 1(d) (weight of 13mts long 105b/yd rail pole is 661 Kgs.) |
| 2 | GI nuts & bolts. | Kgs | 10 | 137 | 1370 | 15 | 150 | 12(b) |
| 3 | Cement Concrete 1:2:4. | Cu.mts | 3 | 4372 | 13116 | Inclusive | | As per GSR-2011, 6001(a) |
| 4 | Enamelled danger board. | Nos. | 3 | 173 | 519 | 28 | 84 | 13(e) |
| 5 | Anticlimbing device. | Kms | 3 | 75 | 225 | 28 | 84 | 4(h) |
| 6 | G.I wire 8 SWG. | Kgs | 15 | 75 | 1125 | 28 | 420 | 4(h) |
| 7 | ACSR ' RACOON ' CONDUCTOR. | Kms | 0.05 | 44051 | 2202.55 | 5291 | 264.55 | 4(b) |
| 8 | 33 KV Pin Insulators with G.I. Pins | Set | 6 | 1266 | 7596 | 148 | 888 | 16(a) & 16(b) |
| 9 | Earthing with 50mm, 8' long G.I pipe etc. | Set | 3 | 1542 | 4626 | 1114 | 3342 | 17(g) |
| 10 | Disc insulator 70 KN with metal parts. | Set | 24 | 2349 | 56376 | 306 | 7344 | 16(g) |
| 11 | G.I. Stay rod with palte complete for 33 KV. | Nos. | 2 | 4265 | 8530 | 1532 | 3064 | Ann III(v) |
| 12 | 33 KV GOAB Switch 630A | Set | 1 | 48114 | 48114 | 4636 | 4641 | 9(c) |
| | | | | Cost of Material..... ₹ | 254155.00 | Labour | 75806 | |
| | | | | Cost of Erection..... ₹ | 75806.00 | | | |
| | | | | Total..... ₹ | 329961.00 | | | |
| | | | | Add 1% cess.....₹ | 3299.61 | | | |
| | | | | Total..... ₹ | 333260.61 | | | |
| | | | | Add 7.5% establishment charges..... ₹ | 24994.55 | | | |
| | | | | Total..... ₹ | 358255.16 | | | |
| | | | | Add 5% contingencies..... ₹ | 17912.76 | | | |
| | | | | Total..... ₹ | 376167.91 | | | |
| | | | | Rounded to ₹ 376168.00 | | | | |
| | | | | ₹ 3.76 lakhs | | | | |
| (Rupees Three Lakh Seventy Six Thousand One Hundred Sixty Eight only) | | | | | | | | |

Data-25

Standard Estimate for erection of 33KV Metering Unit.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|--|--|-------|-----|---------------------------------------|-----------|------------------|--------|---|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | Rail pole 105lb/yd 13 mts long. | Nos. | 4 | 36785 | 147140 | 18508 | 74032 | 1(d) (weight of 13mts long 105b/yd rail pole is |
| 2 | GI nuts & bolts. | Kgs | 12 | 137 | 1644 | 15 | 180 | 12(b) |
| 3 | Cement Concrete 1:2:4. | Cu.mt | 4 | 4372 | 17488 | Inclusive | | As per GSR-2011, |
| 4 | Enamelled danger board. | Nos. | 4 | 173 | 692 | 28 | 112 | 13(e) |
| 5 | Anticlimbing device. | Kms | 1 | 75 | 75 | 28 | 28 | 4(h) |
| 6 | G.I wire 8 SWG. | Kgs | 40 | 75 | 3000 | 28 | 1120 | 4(h) |
| 7 | 33 KV Pin Insulators with G.I. Pins | Set | 3 | 1266 | 3798 | 148 | 444 | 16(a) & 16(b) |
| 8 | Earthing with 50mm, 8' long G.I pipe etc. | Set | 4 | 1542 | 6168 | 1114 | 4456 | 17(g) |
| 9 | Disc insulator 70 KN with metal parts. | Set | 12 | 2349 | 28188 | 306 | 3672 | 16(g) |
| 10 | G.I. Stay rod with palte complete for 33 KV. | Nos. | 4 | 4265 | 17060 | 1532 | 6128 | RA |
| 11 | 33 KV GOAB Switch 630A | Set | 1 | 48114 | 48114 | 4641 | 4641 | 9(c) |
| 12 | 4 pole structure materials with clamps. | Kgs | 350 | 100 | 35000 | 28 | 9800 | 17(f) |
| 13 | Lightening Arrestors 30KV, 10KA. | Nos. | 3 | 13133 | 39399 | 928 | 2784 | 10(c) |
| 14 | Trivector meter box with clamps. | No. | 1 | 5500 | 5500 | 650 | 650 | 13(b) |
| 15 | Control cable 4 core, 2.5sq.mm copper | Mts | 50 | 120 | 6000 | 19 | 950 | 20(b)(iii) |
| | | | | Cost of Material..... ₹ | 359266.00 | Labour | 108997 | |
| | | | | Cost of Erection..... ₹ | 108997.00 | | | |
| | | | | Total..... ₹ | 468263.00 | | | |
| | | | | Add 1% cess.....₹ | 4682.63 | | | |
| | | | | Total..... ₹ | 472945.63 | | | |
| | | | | Add 7.5% establishment charges..... ₹ | 35470.92 | | | |
| | | | | Total..... ₹ | 508416.55 | | | |
| | | | | Add 5% contingencies..... ₹ | 25420.83 | | | |
| | | | | Total..... ₹ | 533837.38 | | | |
| | | | | Rounded to ₹ 533837.00 | | | | |
| | | | | ₹ 5.34 lakhs | | | | |
| (Rupees Five Lakh Thirty Three Thousand Eight Hundred Thirty Seven only) | | | | | | | | |

Data-26

Standard Estimate for erection of 11KV Metering Unit.

| Sr. No. | Description | Unit | Qty | Cost of Material | | Cost of Erection | | Rate Reference |
|---------|--|-------|-----|------------------|--------|------------------|-------|---|
| | | | | Rate | Amt | Rate | Amt | |
| 1 | 90 lb/yd Rail pole 11 mts long. | Nos. | 2 | 26656 | 53312 | 13412 | 26824 | 1(d) (weight of 11mts long 90lb/yd rail pole is 479 Kgs.) |
| 4 | Cement Concrete1:2:4. | Cu.mt | 1.2 | 4372 | 5246.4 | Inclusive | | As per GSR-2011, |
| 2 | HDGI stay rod with plate complete for | Set | 2 | 2593 | 5186 | 1420 | 2840 | Ann III(iv) |
| 3 | HDGI nuts & bolts. | Kgs | 8 | 137 | 1096 | 15 | 120 | 12(b) |
| 5 | Enamelled danger board. | Nos. | 2 | 173 | 346 | 28 | 56 | 13(e) |
| 6 | 11 KV Disc Insulators 70 KN with | Set | 9 | 1757 | 15813 | 204 | 1836 | 16(i) |
| 7 | Anticlimbing device. | Kgs | 2 | 75 | 150 | 28 | 56 | 4(g) |
| 8 | GI wire 8 SWG. | Kgs | 50 | 75 | 3750 | 28 | 1400 | 4(h) |
| 9 | HDGI structure material. | Kgs | 100 | 100 | 10000 | 28 | 2800 | 17(f) |
| 10 | 11 KV GOAB switch with 400 A | Nos. | 1 | 14995 | 14995 | 2042 | 2042 | 9(b) |
| 11 | Earthing with 40mm, 8" long GI pipe. | Set | 5 | 1542 | 7710 | 1114 | 5570 | 17(g) |
| 12 | 11 KV HG fuse. | Set | 1 | 11636 | 11636 | 1205 | 1205 | 9(f) |
| 13 | 9 KV, 5A Lightning Arrestor, pole mounted. | Nos. | 3 | 1282 | 3846 | 93 | 279 | 10(a) |
| 14 | Trivector meter. | Nos. | 1 | 15274 | 15274 | 2692 | 2692 | 11(f) |
| 15 | Trivector meter box with clamps etc. | Nos. | 1 | 5500 | 5500 | 650 | 650 | 13(b) |
| 16 | Control cable 4 core, 2.5 sq.mm copper. | Mts | 8 | 120 | 960 | 19 | 152 | 20(b)(iii) |
| 17 | CTPT unit. | Set | 1 | 25135 | 25135 | 3713 | 3713 | 8(c)(viii) |

Cost of Material..... ₹ 179955.00 Labour 52235

Cost of Erection..... ₹ 52235.00

Total..... ₹ 232190.00

Add 1% cess..... ₹ 2321.90

Total..... ₹ 234511.90

Add 7.5% establishment charges..... ₹ 17588.39

Total..... ₹ 252100.29

Add 5% contingencies..... ₹ 12605.01

Total..... ₹ 264705.31

Rounded to ₹ 264705.00

₹ 2.65 lakhs

(Rupees Two Lakh Sixty Four Thousand Seven Hundred Five only)