

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.

Cost Data 2022-23

Item Code No. 0101

Cost data for 33/11 KV, 1x5 MVA Substation (Outdoor)

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
33 KV SIDE					
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	164080.35	164080.35
6	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
9	Earthing complete as per Sheet no.2	Set	1	291631.00	291631.00
10	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
11	33 KV P.T.	Nos	3	22651.20	67953.60
12	33 kv C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
13	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
14	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
15	33 KV Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
16	Structure for 33 KV CT & PT as per Sheet no.3	No	1	64895.85	64895.85
17	G.I.Nut Bolts	KG	150	111.92	16787.25
B 11 KV SIDE					
18	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
19	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
20	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	326454.11	326454.11
21	11 kv Pin Insulators with G.I. Pins	No.	12	108.66	1303.94
22	Clamps and Connectors as per Sheet no.5	No.	1	217894.82	217894.82
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	276569.56	276569.56
24	S/S Yard lighting as per Sheet no.7	No.	1	222305.00	222305.00
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	246518.60	246518.60
27	Control cables for S/S as per Sheet no.9	No.	1	109806.49	109806.49
28	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
					7849987.56
Cost of material					
1	Erection cost on material		5.00%		392499
2	Contractor supervision charges on material		5.00%		392499
Sub-Total					8634986
3	Contractor's Profit		5.00%		431749
Sub-Total					9066736
4	Transportation on material		4.00%		314000
5	T&P on material cost		1.00%		78500
6	Contingencies on material		2.00%		157000
Service Cost					19467969
Sub-Total					9616235
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		19232
Sub-Total					9635467
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		96355
9	Insurance		1.00%		96355
10	Turnkey Charges		0.00%		0
Total					9828177
Civil Works As per Sheet 'C'		No.	1		9191040
Total Cost of Estimate					19019217

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	14918901	9828184
Civil Works As per Sheet 'C'	11714982	9191040
Total Cost of the Estimate	26633883	19019225

Sheet
No.1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	129902.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
				Total:	164080.35

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet
No. 5

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	217894.82

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Sheet
No.7

Cost data for Yard Lighting of 1 x 5 MVA , 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	7245.00	86940.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	5537.25	66447.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cmt	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	222305.00

Sheet
No. 8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA S/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	246518.60

Sheet
No - 9

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Description	Amount
1	Land Development (As per table A)	315432.00
2	Control room (As per table B) outdoor	2713410.70
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D)	530784.80
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.19
8	Metal Spreading (As per table F)	183768.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936.00
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0.00
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0.00
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0.00
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.20
14	Borewell including pumpset and allied accessories. (As per table I)	104335.59
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790.00
16	Construction of retaining wall. (As per table K)	950653.56
17	Rain Water Harvesting (As per Table L)	73475.00
18	Culvert (As per Table N) If required	179692.50
	Total=	9191040.41

Item Code No. 0102					
Cost data for 33/11 kV 1 X 10 MVA New S/S(Outdoor)					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	164080.35	164080.35
6	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
9	Earthing complete as per Sheet no.2	Set	1	326645.50	326645.50
10	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
11	33 KV P.T.	Nos	3	22651.20	67953.60
12	33 kv C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
13	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
14	C&R panel for 33 KV Transformer with Diff. Protection	No	1	74800.80	74800.80
15	33 kv Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
16	Structure for 33 KV CT & PT as per Sheet no.3	No	1	64895.85	64895.85
17	G.I.Nut Bolts	KG	150	111.92	16787.25
B	11 KV SIDE				
18	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
19	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
20	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	409484.04	409484.04
21	11 kv Pin Insulators with G.I. Pins	No.	12	108.66	1303.94
22	Clamps and Connectors as per Sheet no.5	No.	1	217894.82	217894.82
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	338224.67	338224.67
24	S/S Yard lighting as per Sheet no.7	No.	1	222305.00	222305.00
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	251606.30	251606.30
27	Control cables for S/S as per Sheet no.9	No.	1	109806.49	109806.49
28	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D	Cost of material			10314385.55
1	Erection cost on material	5.00%		515719
2	Contractor supervision charges on material	5.00%		515719
	Sub-Total			11345824
3	Contractor's Profit	5.00%		567291
	Sub-Total			11913115
4	Transportation on material	4.00%		412575
5	T&P on material cost	1.00%		103144
6	Contingencies on material	2.00%		206288
	Service Cost			25579676
	Sub-Total			12635122
7	BG Charges on 10% of the LOA amount (on Material-centage	0.20%		25270
	Sub-Total			12660393
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		126604
9	Insurance	1.00%		126604
10	Turnkey Charges	0.00%		0

Total **12913600**

9 Civil Works As per Sheet 'C' No. 1 9191040

Total Cost of Estimate **22104641**

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	19602490	12913611
Civil Works As per Sheet 'C'	11714982	9191040
Total Cost of the Estimate	31317471	22104651

Sheet
No.1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x 10 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	130902.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
				Total:	164080.35

Sheet
No.2

Cost data for Earthing Work at 1x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	2000	65.48	130950.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1400	17.25	24150.00
4	Salt	Kg.	1400	8.05	11270.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	326645.50

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	409484.04

Sheet
No. 5

Cost data for Clamps & Connectors at 1x 10 MVA, 33/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	217894.82

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x 10MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm2	Rmt.	150	159.25	23887.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	338224.67

Sheet
No.7

Cost data for Yard Lighting of 1 x 10 MVA , 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	7245.00	86940.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	5537.25	66447.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cmt	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	222305.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x10 MVA S/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 KV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Sheet
No.9

Cost data for Control cable 1 X 10 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

Safety items and T&P in sub-station:

Sr.No.	Description of material	Unit	Qty.	Rate (Rs.)	Amount(Rs.)
1	Safety Items as per the requirement of electrical inspector as under	L.S	1	10925.00	10925.00
	a) First Aid Box				
	b) Shock treatment chart				
	c) Rubber mats 8 mm thick				
	d) 4 Fire buckets with sand & M.S. Hooks / stand				
	e) Helmet				
	f) Hand gloves				
g) 2 Nos. Fire extinguisher					
2	SLD Board 11 KV side	No.	1	862.50	862.50
3	Sub-station Board (Name) with angle stand	No.	2	4600.00	9200.00
4	Danger Board in yard.	No.	10	57.50	575.00
5	Battery Accessories such as hydrometer, cell tester, Acid can, distilled water can, handgloves etc.	Set	1	1035.00	1035.00
6	2 no.s 8W CFL lamps with one suitable inverter (DC to AC)	Set	1	431.25	431.25
7	Earth tester 200 Amp. 2000 Ohm	No.	1	7245.00	7245.00
8	2.5 / 5 KV Megger (Manual)	No.	1	28750.00	28750.00
9	500 V Megger	No.	1	4025.00	4025.00
10	Digital Tong tester (1000 Amp., 500 V) With associated accessories.	No.	1	402.50	402.50
11	Digital Multi meter (10 Amp)	No.	1	2714.00	2714.00
12	Discharge rod for 33 KV	Set	1	1092.50	1092.50
13	Discharge rod for 11 KV	Set	1	1092.50	1092.50
14	Tool box with ratchet spanner, flat spanners, box spanner, plier, screwdriver, hammer, hacksaw with blades, chisel, files (Standard make)	No.	1	4600.00	4600.00
15	2 Cell torch	No.	2	460.00	920.00
16	3 Cell torch	No.	2	460.00	920.00
17	Aluminium ladder (Adjustable)	No.	1	4140.00	4140.00
18	Emergency Artificial respiration kit	Set	1	2093.00	2093.00
19	Name plate painting for all equipments	LS	1	690.00	690.00
				Total:	81713.25

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432.00
2	Control room (As per table B) outdoor	2713410.70
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D)	530784.80
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.19
8	Metal Spreading (As per table F)	183768.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Strn Trans. (As table G) Outdoor	910936.00
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0.00
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0.00
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0.00
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.20
14	Borewell including pumpset and allied accessories. (As per table I)	104335.59
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790.00
16	Construction of retaining wall. (As per table K)	950653.56
17	Rain Water Harvesting (As per Table L)	73475.00
18	Culvert (As per Table N) If required	179692.50
Total=		9191040.41

Item Code No.0103
Cost data for 33/11 kV 2 X 5 MVA New S/S(Outdoor)

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	60612.00	303060.00
4	33 KV Post Insulator	Nos	6	600.83	3604.99
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
6	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
9	Earthing complete as per Sheet no.2	Set	2	291631.00	583262.00
10	Power Transformer 33/11 KV, 5 MVA	No	2	4054683.15	8109366.30
11	33 KV P.T.	Nos	3	22651.20	67953.60
12	33 KV C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
13	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
14	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	68229.60	136459.20
15	33 kv Pin Insulators with G.I. Pins	Nos	12	462.50	5550.01
16	Structure for 33 KV CT & PT as per Sheet no.3	No	2	64895.85	129791.70
17	G.I.Nut Bolts	KG	150	111.92	16787.25
B	11 KV SIDE				
18	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
19	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	351439.91	702879.83
20	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
21	11 kv Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
22	Clamps and Connectors as per Sheet no.5	No.	1	289026.92	289026.92
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	276569.56	553139.12
24	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	251606.30	251606.30
27	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
28	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D	Cost of material			1482252.01
1	Erection cost on material	5.00%		741113
2	Contractor supervision charges on material	5.00%		741113
	Sub-Total			16304477
3	Contractor's Profit	5.00%		815224
	Sub-Total			17119701
4	Transportation on material	4.00%		592890
5	T&P on material cost	1.00%		148223
6	Contingencies on material	2.00%		296445
	Service Cost			36759185
	Sub-Total			18157259
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		36315
	Sub-Total			18193573
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		181936
9	Insurance	1.00%		181936
10	Turnkey Charges	0.00%		0
	Total			18557445
9	Civil Works As per Sheet 'C'	No.	1	9991497
	Total Cost of Estimate			28548942

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	28169690	18557460
Civil Works As per Sheet 'C'	12735251	9991497
Total Cost of the Estimate	40904941	28548957

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x 5 MVA, 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	351439.91

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	289026.92

Sheet
No- 6

Cost data for structure of 11 KV Main Bus at 2 X 5 MVA,33/11 kV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Sheet
No.7

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Sheet
No.9

Cost data for Control cable 2 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C

Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432.00
2	Control room (As per table B) outdoor	2713410.70
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D)	530784.80
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.19
8	Metal Spreading (As per table F)	183768.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936.00
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457.00
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.20
14	Borewell including pumpset and allied accessories. (As per table I)	104335.59
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790.00
16	Construction of retaining wall. (As per table K)	950653.56
17	Rain Water Harvesting (As per Table L)	73475.00
18	Culvert (As per Table N) If required	179692.50
	Total=	9991497.41

Cost data for 33/11 kV 2 X 10 MVA New S/S(Outdoor)

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	60612.00	303060.00
4	33 KV Post Insulator	Nos	6	600.83	3604.99
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
6	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
9	Earthing complete as per Sheet no.2	Set	2	291631.00	583262.00
10	Power Transformer 33/11 KV, 10 MVA	No	2	6327722.70	12655445.40
11	33 KV P.T.	Nos	3	22651.20	67953.60
12	33 kv C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
13	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
14	C&R panel for 33 KV Transformer with Diff. Protection	No	2	74800.80	149601.60
16	33 kv Pin Insulators with G.I. Pins	Nos	12	462.50	5550.01
17	Structure for 33 KV CT & PT as per Sheet no.3	No	2	64895.85	129791.70
18	G.I.Nut Bolts	KG	150	111.92	16787.25
B	11 KV SIDE				
19	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
20	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	434469.84	868939.69
21	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
22	11 kv Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
23	Clamps and Connectors as per Sheet no.5	No.	1	289026.92	289026.92
24	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	338224.67	676449.34
25	S/S Yard lighting as per Sheet no.7	No.	1	256201.55	256201.55
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	251606.30	251606.30
28	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
29	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D	Cost of material			19673847.88
1	Erection cost on material	5.00%		983692
2	Contractor supervision charges on material	5.00%		983692
	Sub-Total			21641233
3	Contractor's Profit	5.00%		1082062
	Sub-Total			22723294
4	Transportation on material	4.00%		786954
5	T&P on material cost	1.00%		196738
6	Contingencies on material	2.00%		393477
	Service Cost			48791143
	Sub-Total			24100464
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		48201
	Sub-Total			24148665
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		241487
9	Insurance	1.00%		241487
10	Turnkey Charges	0.00%		0
	Total			24631638
9	Civil Works As per Sheet 'C'	No.	1	10024115
	Total Cost of Estimate			34655753

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	37390148	24631658
Civil Works As per Sheet 'C'	12776826	10024115
Total Cost of the Estimate	50166974	34655773

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x 10 MVA, 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x 10 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	434469.84

Sheet
No. 5

Cost data for Clamps & Connectors at 2x 10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
	Total:				289026.92

Sheet
No-6

Cost data for structure of 11 kV Main Bus at 2 X 10 MVA,33/11 KV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
15	Miscellaneous material	LS	1	517.50	517.50
	Total:				338224.67

Sheet
No.7

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	Armoured Copper control cable 4C X 2.5 Sq mm	Mtr.	250	113.88	28470.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Mtr.	100	71.64	7164.30
5	Concreting ration 1:3:6	Cmt.	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt.	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
	Total:				256201.55

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Sheet
No.9

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432.00
2	Control room (As per table B) outdoor	2713410.70
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D)	530784.80
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.19
8	Metal Spreading (As per table F)	183768.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936.00
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457.00
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0.00
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	32618.00
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.20
14	Borewell including pumpset and allied accessories. (As per table I)	104335.59
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790.00
16	Construction of retaining wall. (As per table K)	950653.56
17	Rain Water Harvesting (As per Table L)	73475.00
18	Culvert (As per Table N) If required	179692.50
	Total=	10024115.41

Item Code No. 0105					
Cost data for 33/11 kV 1 X 5 MVA & 1 X 10 MVA New S/S(Outdoor)					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	60612.00	303060.00
4	33 KV Post Insulator	Nos	6	600.83	3604.99
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
6	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
9	Earthing complete as per Sheet no.2	Set	2	291631.00	583262.00
10	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
11	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
12	33 KV P.T.	Nos	3	22651.20	67953.60
13	33 kv C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
14	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
15	C&R panel for 33 KV Transformer with Diff. Protection	No	1	74800.80	74800.80
16	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
17	33 KV Pin Insulators with G.I. Pins	Nos	12	462.50	5550.01
18	Structure for 33 KV CT & PT as per Sheet no.3	No	2	64895.85	129791.70
19	G.I.Nut Bolts	KG	150	111.92	16787.25
B	11 KV SIDE				
20	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	429500.90	859001.80
22	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
23	11 kv Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
24	Clamps and Connectors as per Sheet no.5	No.	1	289026.92	289026.92
25	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	369946.76	739893.51
26	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	251606.30	251606.30
29	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D	Cost of material			17444739.12
1	Erection cost on material	5.00%		872237
2	Contractor supervision charges on material	5.00%		872237
	Sub-Total			19189213
3	Contractor's Profit	5.00%		959461
	Sub-Total			20148674
4	Transportation on material	4.00%		697790
5	T&P on material cost	1.00%		174447
6	Contingencies on material	2.00%		348895
	Service Cost			43262953
	Sub-Total			21369805
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		42740
	Sub-Total			21412545
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		214125
9	Insurance	1.00%		214125
10	Turnkey Charges	0.00%		0
	Total			21840796
9	Civil Works As per Sheet 'C'	No.	1	10024115
	Total Cost of Estimate			31864911

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	33153727	21840813
Civil Works As per Sheet 'C'	12776826	10024115
Total Cost of the Estimate	45930553	31864929

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x 5 MVA & 1x10 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA & 1x 10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA & 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
9	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
10	Earthing Sets H.T	Sets	3	461.70	1385.10
11	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
12	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
13	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
14	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
15	G.I.Nut Bolts	Kg.	50	111.92	5595.75
16	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
17	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
d)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
18	Miscellaneous material	LS	1	517.50	517.50
				Total:	429500.90

Sheet
No. 5

Cost data for Clamps & Connectors at 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	289026.92

Sheet
No- 6

Cost data for structure of 11 kV Main Bus at 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	Strain Hardware for AAAC232 sq.mm.	Nos.	37	692.94	25638.93
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	G.I.Nut Bolts	Kg.	50	111.92	5595.75
15	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	12	642.38	7708.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
18	Miscellaneous material	LS	1	517.50	517.50
				Total:	369946.76

Sheet
No.7

Cost data for Yard Lighting of 2X 5 MVA 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable 70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Sheet
No.9

Cost data for Control cable 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C

Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432.00
2	Control room (As per table B) outdoor	2713410.70
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D)	530784.80
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.19
8	Metal Spreading (As per table F)	183768.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936.00
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457.00
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0.00
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	32618.00
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.20
14	Borewell including pumpset and allied accessories. (As per table I)	104335.59
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790.00
16	Construction of retaining wall. (As per table K)	950653.56
17	Rain Water Harvesting (As per Table L)	73475.00
18	Culvert (As per Table N) If required	179692.50
	Total=	10024115.41

Cost data for 33/11 KV, 1x5 MVA Substation (Outdoor) with RSJ pole structure.

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lighting Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	RSJ 125x70, 8 m long	Nos	8	6322.05	50576.40
6	MS Channel 100x50x6 mm	Kg.	1650	69.93	115384.50
7	M.S. Angel(75 X 40 mm)	Kg.	100	69.93	6993.00
8	M.S. Flats(50 X 10mm)	Kg.	80	65.48	5238.00
9	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
12	Earthing complete as per Sheet no.1	Set	1	291631.00	291631.00
13	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
14	33 KV P.T.	Nos	3	22651.20	67953.60
15	33 KV C.T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
18	33 kv Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	64895.85	64895.85
20	G.I.Nut Bolts	KG	150	111.92	16787.25
22	Marshalling Box	Nos.	1	5783.40	5783.40
B	11 KV SIDE				
21	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
22	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
23	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	326454.11	326454.11
24	11 kv Pin Insulators with G.I. Pins	No.	12	108.66	1303.94
25	Clamps and Connectors as per Sheet no.4	No.	1	217894.82	217894.82
26	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	252188.56	252188.56
27	S/S Yard lighting as per Sheet no.6	No.	1	222305.00	222305.00
28	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
29	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	246518.60	246518.60
30	Control cables for S/S as per Sheet no.8	No.	1	109806.49	109806.49
31	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

7845501.51

1	Erection cost on material	5.00%	392275
2	Contractor supervision charges on material	5.00%	392275
	Sub-Total		8630052
3	Contractor's Profit	5.00%	431503
	Sub-Total		9061554
4	Transportation on material	4.00%	313820
5	T&P on material cost	1.00%	78455
6	Contingencies on material	2.00%	156910
	Service Cost		19456844
	Sub-Total		9610739
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	19221
	Sub-Total		9629961
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	96300
9	Insurance	1.00%	96300
10	Turnkey Charges	0.00%	0

Total

9822560

9	Civil Works As per Sheet 'C'	No.	1	9191040
	Total Cost of Estimate			19013600

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	14910376	9822568
Civil Works As per Sheet 'C'	11714982	9191040
Total Cost of the Estimate	26625357	19013608

Sheet
No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet
No. 4

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	217894.82

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
1	RSJ 125x70, 8 m long	Nos.	8	6322.05	50576.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm2	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	252188.56

Sheet
No.6

Cost data for Yard Lighting of 1 x 5 MVA , 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	7245.00	86940.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	5537.25	66447.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt.	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cmt.	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	222305.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA S/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 KV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Bolts Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	246518.60

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432.00
2	Control room (As per table B) outdoor	2713410.70
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D)	530784.80
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.19
8	Metal Spreading (As per table F)	183768.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936.00
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0.00
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0.00
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0.00
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.20
14	Borewell including pumpset and allied accessories. (As per table I)	104335.59
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790.00
16	Construction of retaining wall. (As per table K)	950653.56
17	Rain Water Harvesting (As per Table L)	73475.00
18	Culvert (As per Table N) If required	179692.50
	Total=	9191040.41

Item Code No. 0102A					
Cost data for 33/11 kv 1 X 10 MVA New S/S(Outdoor) with RSJ pole structure					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	RSJ 125x70, 8 m long	Nos	8	6322.05	50576.40
6	MS Channel 100x50x6 mm	Kg.	1650	69.93	115384.50
7	M.S. Angell(75 X 40 mm)	Kg.	100	69.93	6993.00
8	M.S. Flats(50 X 10mm)	Kg.	80	65.48	5238.00
9	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
12	Earthing complete as per Sheet no.1	Set	1	326645.50	326645.50
13	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
14	33 KV P.T.	Nos	3	22651.20	67953.60
15	33 kv C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
17	C&R panel for 33 KV Transformer with Diff. Protection	No	1	74800.80	74800.80
18	33 KV Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	64895.85	64895.85
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
22	Marshalling Box	Nos.	1	5783.40	5783.40
B	11 KV SIDE				
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
23	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	409484.04	409484.04
25	11 KV Pin Insulators with G.I. Pins	No.	12	108.66	1303.94
26	Clamps and Connectors as per Sheet no.4	No.	1	217894.82	217894.82
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	313843.67	313843.67
28	S/S Yard lighting as per Sheet no.6	No.	1	222305.00	222305.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	251606.30	251606.30
31	Control cables for S/S as per Sheet no.8	No.	1	109806.49	109806.49
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D	Cost of material				10314729.50
1	Erection cost on material	5.00%			515736
2	Contractor supervision charges on material	5.00%			515736
	Sub-Total				11346202
3	Contractor's Profit	5.00%			567310
	Sub-Total				11913513
4	Transportation on material	4.00%			412589
5	T&P on material cost	1.00%			103147
6	Contingencies on material	2.00%			206295
	Service Cost				25580529
	Sub-Total				12635544
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			25271
	Sub-Total				12660815
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			126608
9	Insurance	1.00%			126608
10	Turnkey Charges	0.00%			0
	Total				12914031
9	Civil Works As per Sheet 'C'	No.	1		9191040
	Total Cost of Estimate				22105071

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	19603143	12914041
Civil Works As per Sheet 'C'	11714982	9191040
Total Cost of the Estimate	31318125	22105082

Sheet
No.1

Cost data for Earthing Work at 1x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	2000	65.48	130950.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1400	17.25	24150.00
4	Salt	Kg.	1400	8.05	11270.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	326645.50

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	409484.04

Sheet
No. 4

**Cost data for Clamps & Connectors at 1x 10 MVA,
3311 kv sub stn. (Outdoor)**

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
	a) DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
	b) T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	217894.82

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x 10MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 125x70, 8 m long	Nos.	8	6322.05	50576.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	313843.67

Sheet
No.6

Cost data for Yard Lighting of 1 x 10 MVA , 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	7245.00	86940.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	5537.25	66447.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cmt	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	222305.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x10 MVA S/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable 70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Sheet
No.8

Cost data for Control cable 1 X 10 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C

Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475.00
18	Culvert (As per Table N) If required	179692.50
	Total=	9191040.41

Cost data for 33/11 kV 2 X 5 MVA New S/S(Outdoor) with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lighting Arrestors (Station type)	Set	4	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	60612.00	303060.00
4	33 KV Post Insulator	Nos	6	600.83	3604.99
5	RSJ 125x70, 8 m long	Nos	16	6322.05	101152.80
6	MS Channel 100x50x6 mm	Kg.	3300	69.93	230769.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	69.93	13986.00
8	M.S. Flats(50 X 10mm)	Kg.	160	65.48	10476.00
9	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
12	Earthing complete as per Sheet no.1	Set	2	291631.00	583262.00
13	Power Transformer 33/11 KV, 5 MVA	No	2	4054683.15	8109366.30
14	33 KV P.T.	Nos	3	22651.20	67953.60
15	33 kv C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	68229.60	136459.20
18	33 KV Pin Insulators with G.I. Pins	Nos	12	462.50	5550.01
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	64895.85	129791.70
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Fire Extinguisher with stand	Set	LS	4830.00	4830.00
22	Marshalling Box	Nos.	2	5783.40	11566.80
B	11 KV SIDE				
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
23	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	351439.91	702879.83
24	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
25	11 kv Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
26	Clamps and Connectors as per Sheet no.4	No.	1	289026.92	289026.92
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	252188.56	504377.12
28	S/S Yard lighting as per Sheet no.6	No.	1	253197.25	253197.25
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	251606.30	251606.30
31	Control cables for S/S as per Sheet no.8	No.	1	220803.67	220803.67
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D	Cost of material				14883061.11
1	Erection cost on material	5.00%			744153
2	Contractor supervision charges on material	5.00%			744153
	Sub-Total				16371367
3	Contractor's Profit	5.00%			818568
	Sub-Total				17189936
4	Transportation on material	4.00%			595322
5	T&P on material cost	1.00%			148831
6	Contingencies on material	2.00%			297661
	Service Cost				36909992
	Sub-Total				18231750
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%			36463
	Sub-Total				18268213
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			182682
9	Insurance	1.00%			182682
10	Turnkey Charges	0.00%			0
	Total				18633578
9	Civil Works As per Sheet 'C'	No.	1		9991497
	Total Cost of Estimate				28625075

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	28285258	18633593
Civil Works As per Sheet 'C'	12735251	9991497
Total Cost of the Estimate	41020509	28625090

Sheet
No.1

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 2x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	351439.91

Sheet
No. 4

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	289026.92

Sheet
No- 5

Cost data for structure of 11 kV Main Bus at 2 X 5 MVA,33/11 kV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 125x70, 8 m long	Nos.	8	6322.05	50576.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	252188.56

Sheet
No.6

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Cost data for Control cable 2 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	9991497.41

Cost data for 33/11 kV 2 X 10 MVA New S/S(Outdoor) with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	60612.00	303060.00
4	33 KV Post Insulator	Nos	6	600.83	3604.99
5	RSJ 125x70, 8 m long	Nos	16	6322.05	101152.80
6	MS Channel 100x50x6 mm	Kg.	3300	69.93	230769.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	69.93	13986.00
8	M.S. Flats(50 X 10mm)	Kg.	160	65.48	10476.00
9	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
12	Earthing complete as per Sheet no.1	Set	2	291631.00	583262.00
13	Power Transformer 33/11 KV, 10 MVA	No	2	6327722.70	12655445.40
14	33 KV P.T.	Nos	3	22651.20	67953.60
15	33 kv C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
17	C&R panel for 33 KV Transformer with Diff. Protection	No	2	74800.80	149601.60
18	33 KV Pin Insulators with G.I. Pins	Nos	12	462.50	5550.01
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	64895.85	129791.70
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
22	Marshalling Box	Nos.	4	5783.40	23133.60
B	11 KV SIDE				
23	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	434469.84	868939.69
25	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
26	11 KV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
27	Clamps and Connectors as per Sheet no.4	No.	1	289026.92	289026.92
28	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	313843.67	627687.34
29	S/S Yard lighting as per Sheet no.6	No.	1	253197.25	253197.25
30	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
31	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	251606.30	251606.30
32	Control cables for S/S as per Sheet no.8	No.	1	220803.67	220803.67
33	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D	Cost of material				19743219.48
1	Erection cost on material	5.00%			987161
2	Contractor supervision charges on material	5.00%			987161
	Sub-Total				21717541
3	Contractor's Profit	5.00%			1085877
	Sub-Total				22803419
4	Transportation on material	4.00%			789729
5	T&P on material cost	1.00%			197432
6	Contingencies on material	2.00%			394864
	Service Cost				48963184
	Sub-Total				24185444
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			48371
	Sub-Total				24233815
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			242338
9	Insurance	1.00%			242338
10	Turnkey Charges	0.00%			0
	Total				24718491
9	Civil Works As per Sheet 'C'	No.	1		10024115
	Total Cost of Estimate				34742606

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	37521989	24718511
Civil Works As per Sheet 'C'	12776826	10024115
Total Cost of the Estimate	50298815	34742626

Sheet
No.1

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 2x 10 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	434469.84

Sheet
No. 4

Cost data for Clamps & Connectors at 2x 10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	289026.92

Sheet
No-5

Cost data for structure of 11 kV Main Bus at 2 X 10 MVA,33/11 kV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 125x70, 8 m long	Nos.	8	6322.05	50576.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	313843.67

Sheet
No.6

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	32618
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	10024115.41

Cost data for 33/11 kV 1 X 5 MVA & 1 X 10 MVA New S/S(Outdoor) with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33 KV SIDE					
1	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	60612.00	303060.00
4	33 KV Post Insulator	Nos	6	600.83	3604.99
5	RSJ 125x70, 8 m long	Nos	16	6322.05	101152.80
6	MS Channel 100x50x6 mm	Kg.	3300	69.93	230769.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	69.93	13986.00
8	M.S. Flats(50 X 10mm)	Kg.	160	65.48	10476.00
9	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
12	Earthing complete as per Sheet no.1	Set	2	291631.00	583262.00
13	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
14	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
15	33 KV P.T.	Nos	3	22651.20	67953.60
16	33 kv C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
17	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
18	C&R panel for 33 KV Transformer with Diff. Protection	No	1	74800.80	74800.80
19	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
20	33 kv Pin Insulators with G.I. Pins	Nos	12	462.50	5550.01
21	Structure for 33 KV CT & PT as per Sheet no.2	No	2	64895.85	129791.70
22	G.I.Nut Bolts	KG	150	111.92	16787.25
23	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
B 11 KV SIDE					
24	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
25	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	429500.90	859001.80
26	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
27	11 kv Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
28	Clamps and Connectors as per Sheet no.4	No.	1	330095.72	330095.72
29	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	344872.81	689745.63
30	S/S Yard lighting as per Sheet no.6	No.	1	253197.25	253197.25
31	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
32	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	251606.30	251606.30
33	Control cables for S/S as per Sheet no.8	No.	1	220803.67	220803.67
34	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material					17533664.33
1	Erection cost on material	5.00%		876683	
2	Contractor supervision charges on material	5.00%		876683	
	Sub-Total				19287031
3	Contractor's Profit	5.00%		964352	
	Sub-Total				20251382
4	Transportation on material	4.00%		701347	
5	T&P on material cost	1.00%		175337	
6	Contingencies on material	2.00%		350673	
	Service Cost				43483488
	Sub-Total				21478739
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%		42957	
	Sub-Total				21521696
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		215217	
9	Insurance	1.00%		215217	
10	Turnkey Charges	0.00%		0	
	Total				21952130
8	Civil Works As per Sheet 'C'	No.	1		10024115
	Total Cost of Estimate				31976246

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	33322729	21952148
Civil Works As per Sheet 'C'	12776826	10024115
Total Cost of the Estimate	46099555	31976263

Sheet
No.1

Cost data for Earthing Work at 1x 5 MVA & 1x 10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x5 MVA & 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
9	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
10	Earthing Sets H.T	Sets	3	461.70	1385.10
11	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
12	AAAC 232 mm2	Rmt.	150	159.25	23887.50
13	AAAC 100 mm2	Rmt.	150	66.69	10003.85
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	G.I.Nut Bolts	Kg.	50	111.92	5595.75
15	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
16	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
b)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
19	Miscellaneous material	LS	1	517.50	517.50
				Total:	429500.90

Sheet
No. 4

Cost data for Clamps & Connectors at 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	36	1140.80	41068.80
3	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
4	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
5	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
6	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
7	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	330095.72

Sheet
No- 5

Cost data for structure of 11 kV Main Bus at 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 125x70, 8 m long	Nos.	8	6322.05	50576.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	G.I.Nut Bolts	Kg.	50	111.92	5595.75
15	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
b)	DOG TO DOG or equivalent AAAC	Nos.	12	642.38	7708.57
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	344872.81

Sheet
No.6

Cost data for Yard Lighting of 2X 5 MVA 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable 70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Cost data for Control cable 1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	32618
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	10024115.41

Item Code No. 0101B					
Cost data for 33/22 kV 1 X 5 MVA New S/S(Outdoor)					
Sr.No	Description	Unit	Qty.	Rate	Amount
A 33 KV SIDE					
1	33 KV Lightning Arrestors (Station type)	Set	2.00	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1.00	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3.00	60612.00	181836.00
4	33 KV Post Insulator	No	3.00	600.83	1802.49
5	Disc Insulator 11 KV 70 KN	No	18.00	310.01	5580.23
6	AAAC 232 mm2	Rmt	200.00	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Set	6.00	692.94	4157.66
8	Power Transformer 33/22 KV 5 MVA	No	1.00	4329504.00	4329504.00
9	33 KV P.T.	No	3.00	22651.20	67953.60
10	33 kV C. T. (400-200/1-1-1)	No	3.00	30013.20	90039.60
11	33 KV VCB complete 1600 Amp (O.D.)	No	1.00	225349.60	225349.60
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	1.00	74800.80	74800.80
13	Control C&R Panel 22 KV for feeder with accessories.	Set	1	91000.80	91000.80
14	33 kV Pin Insulators with G.I. Pins	No	6.00	462.50	2775.01
15	G.I.Nut Bolts	Kg	150.00	111.92	16787.25
16	Marshalling Box	No	2.00	5783.40	11566.80
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	164080.35	164080.35
18	Earthing complete as per Table No.2	Set	1.00	518773.00	518773.00
19	Structure for 33 KV CT & PT as per Table No.3	No	1.00	64895.85	64895.85
B 22 KV SIDE					
20	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1.00	1484586.75	1484586.75
21	22 KV Lightning Arrestors (Station type)	Set	1.00	13666.01	13666.01
22	22 kv Pin Insulators with G.I. Pins	No	12.00	386.40	4636.80
23	AC Distribution Board 'B' type	No	1.00	24325.00	24325.00
24	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	82800.00	82800.00
25	Take off structure for 3 outgoing feeder as per Table No.4	No.	1.00	375166.61	375166.61
26	Clamps and Connectors as per TableNo.5	No.	1.00	217894.82	217894.82
27	Structure for 22 KV Main Bus as per Table No.6	No.	1.00	306536.85	306536.85
28	S/S Yard lighting as per Table No.7	No.	1.00	253197.25	253197.25
29	22/0.43 KV x 100 KVA station Transformer as per Table No.8.	No.	1.00	382932.23	382932.23
30	Control cables for S/S as per Table No.9	No.	1.00	220803.67	220803.67
Cost of material					9338120.03

1	Erection cost on material	5.00%	466906
2	Contractor supervision charges on material	5.00%	466906
Sub-Total			10271932
3	Contractor's Profit	5.00%	513597
Sub-Total			10785529
4	Transportation on material	4.00%	373525
5	T&P on material cost	1.00%	93381
6	Contingencies on material	2.00%	186762
Service Cost			23158538
Sub-Total			11439197
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	22878
Sub-Total			11462075
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	114621
9	Insurance	1.00%	114621
10	Turnkey Charges	0.00%	0
Total			11691317
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			20882357

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	17747097	11691326
Civil Works As per Sheet 'C'	11714982	9191040
Total Cost of the Estimate	29462079	20882367

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x5 MVA 33/22 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	129902.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
				Total:	164080.35

Sheet
No.2

Cost data for Earthing Work at 1x5 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	2500	65.48	163687.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	44	7245.00	318780.00
3	Coal	Kg.	1400	17.25	24150.00
4	Salt	Kg.	1400	8.05	11270.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	518773.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1 x 5 MVA, 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 22 KV Feeders 3 outlets at 1x5 MVA,33/22KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	22KV A.B.Switch, 400 A	Nos.	3	17336.40	52009.20
6	Disc Insulator 11 KV 70 KN	Nos.	72	310.01	22320.92
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	369.91	4438.91
8	22 KV Pin Insulators with G.I. Pins	Nos.	9	386.40	3477.60
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	22 KV Lightning Arrestors (Screw type)	Sets	3	9853.20	29559.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	375166.61

Sheet
No. 5

Cost data for Clamps & Connectors at 1 x 5 MVA, 33/22 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
	Total:				217894.82

Sheet
No-6

Cost data for structure of 22 kV Main Bus at 1 X 5 MVA,33/22 kV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	72	310.01	22320.92
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	369.91	4438.91
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	386.40	3477.60
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	22 KV Lightning Arrestors (Screw type)	Sets	3	9853.20	29559.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
	Total:				306536.85

Sheet
No.7

Cost data for Yard Lighting of 1 X 5 MVA, 33/22 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
	Total:				253197.25

Sheet
No.8

Cost data for 100 KVA, 22/0.43 KV Station Transformer for 1 x 5 MVA, 33/22 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist.transformer 100kva,22/0.4kv	No.	1	252975.00	252975.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	22KV A.B.Switch, 400 A	Set	1	17336.40	17336.40
7	22KV H.G.Fuses	Nos.	1	5360.40	5360.40
8	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
9	22 kv Pin Insulators with G.I. Pins	Nos.	6	386.40	2318.40
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	382932.23

Sheet
No.9

Cost data for Control cable 1 X 5 MVA, 33/22KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 33/22 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.59
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790.00
16	Construction of retaining wall. (As per table K)	950653.56
17	Rain Water Harvesting (As per Table L)	73475.00
18	Culvert (As per Table N) If required	179692.50
	Total=	9191040.41

Item Code No. 0102B					
Cost data for 33/22 kv 1 X10 MVA New S/S(Outdoor)					
Sr.No	Description	Unit	Qty.	Rate	Amount
A 33 KV SIDE					
1	33 KV Lightning Arrestors (Station type)	Set	2.00	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1.00	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3.00	60612.00	181836.00
4	33 KV Post Insulator	No	3.00	600.83	1802.49
5	Disc Insulator 11 KV 70 KN	No	18.00	310.01	5580.23
6	AAAC 232 mm2	Rmt	200.00	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Set	6.00	692.94	4157.66
8	Power Transformer 33/22 KV 10 MVA	No	1.00	6690267.90	6690267.90
9	33 KV P.T.	No	3.00	22651.20	67953.60
10	33 kv C. T. (400-200/1-1-1)	No	3.00	30013.20	90039.60
11	33 KV VCB complete 1600 Amp (O.D.)	No	1.00	225349.60	225349.60
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	1.00	74800.80	74800.80
13	33 kv Pin Insulators with G.I. Pins	No	6.00	462.50	2775.01
14	G.I.Nut Bolts	Kg	150.00	111.92	16787.25
15	Marshalling Box	No	2.00	5783.40	11566.80
16	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	164080.35	164080.35
17	Earthing complete as per Table No.2	Set	1.00	518773.00	518773.00
18	Structure for 33 KV CT & PT as per Table No.3	No	1.00	64895.85	64895.85
B 22 KV SIDE					
20	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	1.00	1484586.75	1484586.75
21	22 KV Lightning Arrestors (Station type)	Set	1.00	13666.01	13666.01
22	22 kv Pin Insulators with G.I. Pins	No	12.00	386.40	4636.80
23	22 KV C.T. Three core.	No	3.00	29998.80	89996.40
24	AC Distribution Board 'B' type	No	1.00	24325.00	24325.00
25	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	82800.00	82800.00
26	Take off structure for 3 outgoing feeder as per Table No.4	No.	1.00	375166.61	375166.61
27	Clamps and Connectors as per TableNo.5	No.	1.00	217894.82	217894.82
28	Structure for 22 KV Main Bus as per Table No.6	No.	1.00	306536.85	306536.85
29	S/S Yard lighting as per Table No.7	No.	1.00	253197.25	253197.25
30	22/0.43 KV x 100 KVA station Transformer as per Table No.8.	No.	1.00	382932.23	382932.23
31	Control cables for S/S as per Table No.9	No.	1.00	220803.67	220803.67
Cost of material					11697879.53

1	Erection cost on material	5.00%	584894
2	Contractor supervision charges on material	5.00%	584894
Sub-Total			12867667
3	Contractor's Profit	5.00%	643383
Sub-Total			13511051
4	Transportation on material	4.00%	467915
5	T&P on material cost	1.00%	116979
6	Contingencies on material	2.00%	233958
Service Cost			29010741
Sub-Total			14329902
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	28660
Sub-Total			14358562
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	143586
9	Insurance	1.00%	143586
10	Turnkey Charges	0.00%	0
Total			14645733
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			23836774

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	90.05%
Cost with overheads on Material	22231820	14645745
Civil Works As per Sheet 'C'	11714982	9191040
Total Cost of the Estimate	33946802	23836786

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x10 MVA 33/22 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	129902.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
Total:					164080.35

Sheet
No.2

Cost data for Earthing Work at 1x 10 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	2500	65.48	163687.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	44	7245.00	318780.00
3	Coal	Kg.	1400	17.25	24150.00
4	Salt	Kg.	1400	8.05	11270.00
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
Total:					518773.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1 x 10 MVA, 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
Total:					64895.85

Sheet
No : 4

Cost data for Take off structure for 22 KV Feeders 3 outlets at 1x10 MVA,33/22KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	22KV A.B.Switch, 400 A	Nos.	3	17336.40	52009.20
6	Disc Insulator 11 KV 70 KN	Nos.	72	310.01	22320.92
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	369.91	4438.91
8	22 kv Pin Insulators with G.I. Pins	Nos.	9	386.40	3477.60
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	22 KV Lightning Arrestors (Screw type)	Sets	3	9853.20	29559.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
Total:					375166.61

Sheet
No. 5

Cost data for Clamps & Connectors at 1 x10 MVA, 33/22 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
	Total:				217894.82

Sheet
No-6

Cost data for structure of 22 kv Main Bus at 1 X 10 MVA,33/22 kv Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	72	310.01	22320.92
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	369.91	4438.91
7	22 kv Pin Insulators with G.I. Pins	Nos.	9	386.40	3477.60
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	22 KV Lightning Arrestors (Screw type)	Sets	3	9853.20	29559.60
10	AAAC 100 mm2	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
	Total:				306536.85

Sheet
No.7

Cost data for Yard Lighting of 1 X 10 MVA, 33/22 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
	Total:				253197.25

Sheet
No.8

Cost data for 100 KVA, 22/0.43 KV Station Transformer for 1 x 10 MVA, 33/22 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist.transformer 100kva,22/0.4kv	No.	1	252975.00	252975.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	22KV A.B.Switch, 400 A	Set	1	17336.40	17336.40
7	22KV H.G.Fuses	Nos.	1	5360.40	5360.40
8	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
9	22 kv Pin Insulators with G.I. Pins	Nos.	6	386.40	2318.40
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	382932.23

Sheet
No.9

Cost data for Control cable 1 X 10 MVA, 33/22KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 33/22 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.20
14	Borewell including pumpset and allied accessories. (As per table I)	104335.59
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790.00
16	Construction of retaining wall. (As per table K)	950653.56
17	Rain Water Harvesting (As per Table L)	73475.00
18	Culvert (As per Table N) If required	179692.50
	Total=	9191040.41

Item Code No. 0103B					
Cost data for 33/22 kV 2 X 5 MVA New S/S(Outdoor)					
Sr.No	Description	Unit	Qty.	Rate	Amount
A 33 KV SIDE					
1	33 KV Lightning Arrestors (Station type)	Set	4.00	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2.00	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5.00	60612.00	303060.00
4	33 KV Post Insulator	No	6.00	600.83	3604.99
5	Disc Insulator 11 KV 70 KN	No	36.00	310.01	11160.46
6	AAAC 232 mm2	Rmt	200.00	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Set	12.00	692.94	8315.33
8	Power Transformer 33/22 KV 5 MVA	No	2.00	4329504.00	8659008.00
9	33 KV P.T.	No	3.00	22651.20	67953.60
10	33 kv C. T. (400-200/1-1-1)	No	6.00	30013.20	180079.20
11	33 KV VCB complete 1600 Amp (O.D.)	No	2.00	225349.60	450699.20
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	2.00	74800.80	149601.60
13	Control C&R Panel 22 KV for feeder with accessories.	Set	1	91000.80	91000.80
14	33 kv Pin Insulators with G.I. Pins	No	12.00	462.50	5550.01
15	G.I.Nut Bolts	Kg	150.00	111.92	16787.25
16	Marshalling Box	No	5.00	5783.40	28917.00
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	263209.50	263209.50
18	Earthing complete as per Table No.2	Set	2.00	291631.00	583262.00
19	Structure for 33 KV CT & PT as per Table No.3	No	2.00	64895.85	129791.70
B 22 KV SIDE					
20	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2.00	1484586.75	2969173.50
21	22 KV Lightning Arrestors (Station type)	Set	2.00	13666.01	27332.01
22	22 kv Pin Insulators with G.I. Pins	No	24.00	386.40	9273.60
23	AC Distribution Board 'B' type	No	1.00	24325.00	24325.00
24	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	82800.00	82800.00
25	Take off structure for 3 outgoing feeder as per Table No.4	No.	2.00	400152.41	800304.81
26	Clamps and Connectors as per TableNo.5	No.	1.00	289026.92	289026.92
27	Structure for 22 KV Main Bus as per Table No.6	No.	2.00	306536.85	613073.70
28	S/S Yard lighting as per Table No.7	No.	1.00	253197.25	253197.25
29	22/0.43 KV x 100 KVA station Transformer as per Table No.8.	No.	1.00	382932.23	382932.23
30	Control cables for S/S as per Table No.9	No.	2.00	220803.67	441607.34
D Cost of material					17054539.01
1	Erection cost on material		5.00%		852727
2	Contractor supervision charges on material		5.00%		852727
Sub-Total					18759993
3	Contractor's Profit		5.00%		938000
Sub-Total					19697993
4	Transportation on material		4.00%		682182
5	T&P on material cost		1.00%		170545
6	Contingencies on material		2.00%		341091
Service Cost					42295257
Sub-Total					20891810
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		41784
Sub-Total					20933594
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		209336
9	Insurance		1.00%		209336
10	Turnkey Charges		0.00%		0
Total					21352266
9	Civil Works As per Sheet 'C'	No.	1		9991497
Total Cost of Estimate					31343763

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	32412151	21352283
Civil Works As per Sheet 'C'	12735251	9991497
Total Cost of the Estimate	45147403	31343780

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x5 MVA 33/22 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
Total:					263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
Total:					291631.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x 5 MVA, 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
Total:					64895.85

Sheet
No : 4

Cost data for Take off structure for 22 KV Feeders 3 outlets at 2x5 MVA,33/22KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	22KV A.B.Switch, 400 A	Nos.	3	17336.40	52009.20
6	Disc Insulator 11 KV 70 KN	Nos.	72	310.01	22320.92
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	369.91	4438.91
8	22 kv Pin Insulators with G.I. Pins	Nos.	9	386.40	3477.60
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	22 KV Lightning Arrestors (Screw type)	Sets	3	9853.20	29559.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
Total:					400152.41

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/22 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
	Total:				289026.92

Sheet
No-6

Cost data for structure of 22 kV Main Bus at 2 X 5 MVA,33/22 kV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	72	310.01	22320.92
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	369.91	4438.91
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	386.40	3477.60
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	22 KV Lightning Arrestors (Screw type)	Sets	3	9853.20	29559.60
10	AAAC 100 mm2	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
	Total:				306536.85

Sheet
No.7

Cost data for Yard Lighting of 2X 5 MVA, 33/22 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
	Total:				253197.25

Sheet
No.8

Cost data for 100 KVA, 22/0.43 KV Station Transformer for 2x5 MVA, 33/22 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist.transformer 100kva,22/0.4kv	No.	1	252975.00	252975.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	22KV A.B.Switch, 400 A	Set	1	17336.40	17336.40
7	22KV H.G.Fuses	Nos.	1	5360.40	5360.40
8	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
9	22 kv Pin Insulators with G.I. Pins	Nos.	6	386.40	2318.40
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	382932.23

Sheet
No.9

Cost data for Control cable 2 X 5 MVA, 33/22KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 33/22 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	9991497.41

Cost data for 33/22 kV 2 X 10 MVA New S/S(Outdoor)

Sr.No	Description	Unit	Qty.	Rate	Amount
A 33 KV SIDE					
1	33 KV Lightning Arrestors (Station type)	Set	4.00	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2.00	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5.00	60612.00	303060.00
4	33 KV Post Insulator	No	6.00	600.83	3604.99
5	Disc Insulator 11 KV 70 KN	No	36.00	310.01	11160.46
6	AAAC 232 mm2	Rmt	200.00	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Set	12.00	692.94	8315.33
8	Power Transformer 33/22 KV 10 MVA	No	2.00	6690267.90	13380535.80
9	33 KV P.T.	No	3.00	22651.20	67953.60
10	33 kv C. T. (400-200/1-1-1)	No	6.00	30013.20	180079.20
11	33 KV VCB complete 1600 Amp (O.D.)	No	2.00	225349.60	450699.20
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	2.00	74800.80	149601.60
13	Control C&R Panel 22 KV for feeder with accessories.	Set	1	91000.80	91000.80
14	33 kv Pin Insulators with G.I. Pins	No	12.00	462.50	5550.01
15	G.I.Nut Bolts	Kg	150.00	111.92	16787.25
16	Marshalling Box	No	5.00	5783.40	28917.00
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	263209.50	263209.50
18	Earthing complete as per Table No.2	Set	2.00	291631.00	583262.00
19	Structure for 33 KV CT & PT as per Table No.3	No	2.00	64895.85	129791.70
B 22 KV SIDE					
20	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2.00	1484586.75	2969173.50
21	22 KV Lightning Arrestors (Station type)	Set	2.00	13666.01	27332.01
22	22 kv Pin Insulators with G.I. Pins	No	24.00	386.40	9273.60
23	AC Distribution Board 'B' type	No	1.00	24325.00	24325.00
24	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	82800.00	82800.00
25	Take off structure for 3 outgoing feeder as per Table No.4	No.	2.00	400152.41	800304.81
26	Clamps and Connectors as per TableNo.5	No.	1.00	289026.92	289026.92
27	Structure for 22 KV Main Bus as per Table No.6	No.	2.00	306536.85	613073.70
28	S/S Yard lighting as per Table No.7	No.	1.00	253197.25	253197.25
29	22/0.43 KV x 100 KVA station Transformer as per Table No.8.	No.	1.00	382932.23	382932.23
30	Control cables for S/S as per Table No.9	No.	2.00	220803.67	441607.34
D	Cost of material				21776066.81
1	Erection cost on material	5.00%			1088803
2	Contractor supervision charges on material	5.00%			1088803
	Sub-Total				23953673
3	Contractor's Profit	5.00%			1197684
	Sub-Total				25151357
4	Transportation on material	4.00%			871043
5	T&P on material cost	1.00%			217761
6	Contingencies on material	2.00%			435521
	Service Cost				54004646
	Sub-Total				26675682
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			53351
	Sub-Total				26729033
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			267290
9	Insurance	1.00%			267290
10	Turnkey Charges	0.00%			0
	Total				27263614
9	Civil Works As per Sheet 'C'	No.	1		10024115
	Total Cost of Estimate				37287729

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	41385415	27263636
Civil Works As per Sheet 'C'	12776826	10024115
Total Cost of the Estimate	54162241	37287751

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x10 MVA 33/22 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x 10 MVA, 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 22 KV Feeders 3 outlets at 2x 10 MVA,33/22KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	22KV A.B.Switch, 400 A	Nos.	3	17336.40	52009.20
6	Disc Insulator 11 KV 70 KN	Nos.	72	310.01	22320.92
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	369.91	4438.91
8	22 kv Pin Insulators with G.I. Pins	Nos.	9	386.40	3477.60
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	22 KV Lightning Arrestors (Screw type)	Sets	3	9853.20	29559.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	400152.41

Sheet
No. 5

Cost data for Clamps & Connectors at 2x 10 MVA, 33/22 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
	Total:				289026.92

Sheet
No-6

Cost data for structure of 22 kV Main Bus at 2 X 10 MVA,33/22 kV Sub-Station

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	72	310.01	22320.92
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	369.91	4438.91
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	386.40	3477.60
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	22 KV Lightning Arrestors (Screw type)	Sets	3	9853.20	29559.60
10	AAAC 100 mm2	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
	Total:				306536.85

Sheet
No.7

Cost data for Yard Lighting of 2X 10 MVA, 33/22 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
	Total:				253197.25

Sheet
No.8

Cost data for 100 KVA, 22/0.43 KV Station Transformer for 2x 10 MVA, 33/22 KV S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist.transformer 100kva,22/0.4kv	No.	1	252975.00	252975.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	22KV A.B.Switch, 400 A	Set	1	17336.40	17336.40
7	22KV H.G.Fuses	Nos.	1	5360.40	5360.40
8	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
9	22 kv Pin Insulators with G.I. Pins	Nos.	6	386.40	2318.40
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	382932.23

Sheet
No.9

Cost data for Control cable 2 X 10 MVA, 33/22KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 33/22 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	32618
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	10024115.41

Item Code No.0101C					
Cost data for 33/11 kV 1 X 5 MVA New S/S33 kV Outdoor & 11 kV Indoor					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
6	AAAC 232 mm2	MTR	200	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
8	Earthing complete as per Sheet no.2	Set	1	330925.00	330925.00
9	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
10	33 KV P.T.	Nos	3	22651.20	67953.60
11	33 kV C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
14	33 kV Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
15	Structure for 33 KV CT & PT as per Sheet no.3	No	1	64895.85	64895.85
16	G.I.Nut Bolts	KG	150	111.92	16787.25
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	164080.35	164080.35
18	Marshalling Box	No.	1	5783.40	5783.40
B	11 KV SIDE				
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1958473.00	1958473.00
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1468.62	440586.00
21	11 kV heat shrinkable indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
22	Clamps and Connectors as per Sheet no.4	No.	1	314267.40	314267.40
23	S/S Yard lighting as per Sheet no.5	No.	1	247869.50	247869.50
24	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
25	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	248538.65	248538.65
26	Control cables for S/S as per Sheet no.7	No.	1	109806.49	109806.49
27	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				8838863.83
1	Erection cost on material		5.00%		441943
2	Contractor supervision charges on material		5.00%		441943
	Sub-Total				9722750
3	Contractor's Profit		5.00%		486138
	Sub-Total				10208888
4	Transportation on material		4.00%		353555
5	T&P on material cost		1.00%		88389
6	Contingencies on material		2.00%		176777
	Service Cost				21920382
	Sub-Total				10827608
7	BG Charges on 10% of the LOA amount (on Material+centage)		0.20%		21655
	Sub-Total				10849263
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		108493
9	Insurance		1.00%		108493
10	Turnkey Charges		0.00%		0
	Total				11066249
9	Civil Works As per Sheet 'C'	No.	1		6660268
	Total Cost of Estimate				17726517

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	16798261	11066258
Civil Works As per Sheet 'C'	8489237	6660268
Total Cost of the Estimate	25287498	17726526

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x5 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	129902.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
				Total:	164080.35

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	90.15	135229.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	3162.50	3162.50
				Total:	330925.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	314267.40

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cum	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	247869.50

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	195637
2	Control room (As per table B) Hybrid	3809684.073
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D) Hybrid	299240.5
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	644821
8	Metal Spreading (As per table F) Hybrid	125076
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	207888.00
15	Construction of retaining wall. (As per table K) Hybrid	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6660268.288

Cost data for 33/11 kV 1 X 10 MVA New S/S33 kV Outdoor & 11 kV Indoor

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33 KV SIDE					
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
6	AAAC 232 mm2	MTR	200	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
8	Earthing complete as per Sheet no.2	Set	1	330925.00	330925.00
9	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
10	33 KV P.T.	Nos	3	22651.20	67953.60
11	33 kV C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
14	33 kV Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
15	Structure for 33 KV CT & PT as per Sheet no.3	No	1	64895.85	64895.85
16	G.I.Nut Bolts	KG	150	111.92	16787.25
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	164080.35	164080.35
18	Marshalling Box	No.	1	5783.40	5783.40
B 11 KV SIDE					
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1958473.00	1958473.00
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1468.62	440586.00
21	11 kV heat shrinkable indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
22	Clamps and Connectors as per Sheet no.4	No.	1	449182.82	449182.82
23	S/S Yard lighting as per Sheet no.5	No.	1	247869.50	247869.50
24	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
25	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	248538.65	248538.65
26	Control cables for S/S as per Sheet no.7	No.	1	109806.49	109806.49
27	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D Cost of material					11246818.80
1	Erection cost on material		5.00%		562341
2	Contractor supervision charges on material		5.00%		562341
Sub-Total					12371501
3	Contractor's Profit		5.00%		618575
Sub-Total					12990076
4	Transportation on material		4.00%		449873
5	T&P on material cost		1.00%		112468
6	Contingencies on material		2.00%		224936
Service Cost					27892111
Sub-Total					13777353
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		27555
Sub-Total					13804908
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		138049
9	Insurance		1.00%		138049
10	Turnkey Charges		0.00%		0
Total					14081006
9	Civil Works As per Sheet 'C'	No.	1		6660268
Total Cost of Estimate					20741274

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	21374579	14081017
Civil Works As per Sheet 'C'	8489237	6660268
Total Cost of the Estimate	29863816	20741285

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x10 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	129390.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
				Total:	164080.35

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	90.15	135229.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	3162.50	3162.50
				Total:	330925.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
				Total:	449182.82

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cum	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	247869.50

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	195637
2	Control room (As per table B) Hybrid	3809684.073
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D) Hybrid	299240.5
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	644821
8	Metal Spreading (As per table F) Hybrid	125076
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	207888.00
15	Construction of retaining wall. (As per table K) Hybrid	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6660268.288

Cost data for 33/11 kV 2 X 5 MVA New S/S33 kV Outdoor & 11 kV Indoor

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	60612.00	303060.00
4	33 KV Post Insulator	Nos	6	600.83	3604.99
5	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
6	AAAC 232 mm2	MTR	200	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
8	Earthing complete as per Sheet no.2	Set	2	291631.00	583262.00
9	Power Transformer 33/11 KV, 5 MVA	No	2	4054683.15	8109366.30
10	33 KV P.T.	Nos	3	22651.20	67953.60
11	33 kV C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
12	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	68229.60	136459.20
14	33 kV Pin Insulators with G.I. Pins	Nos	12	462.50	5550.01
15	Structure for 33 KV CT & PT as per Sheet no.3	No	2	64895.85	129791.70
16	G.I.Nut Bolts	KG	150	111.92	16787.25
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	263209.50	263209.50
19	Marshalling Box	No.	2	5783.40	11566.80
B	11 KV SIDE				
20	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3584805.30	3584805.30
21	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1468.62	881172.00
22	11 kV heat shrinkable indoor termination joint kit for 3 C X 300 sqmm	No.	8	1662.00	13296.00
23	Clamps and Connectors as per Sheet no.4	No.	1	520314.92	520314.92
24	S/S Yard lighting as per Sheet no.5	No.	1	253197.25	253197.25
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	248538.65	248538.65
27	Control cables for S/S as per Sheet no.7	No.	1	220803.67	220803.67
28	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				16319610.33
1	Transportation on material		4.00%		652784
2	T&P on material cost		1.00%		163196
3	Contingencies on material		2.50%		407990
5	Erection cost on material		5.00%		815981
6	Contractor supervision charges on material		5.00%		815981
7	Insurance , Labour & Finance Cost		3.00%		489588
	Service Cost				3345520
	Sub-Total				19665130
8	Turnkey Charges		5.00%		983257
	Total				20648387
9	Civil Works As per Sheet 'C'	No.	1		6772444
	Total Cost of Estimate				27420831

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	31015419	20432152
Civil Works As per Sheet 'C'	8632217	6772444
Total Cost of the Estimate	39647637	27204596

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x5 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
				Total:	520314.92

Sheet
No.5

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 2 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C

Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	195637
2	Control room (As per table B) Hybrid	3809684.073
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D) Hybrid	299240.5
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	644821
8	Metal Spreading (As per table F) Hybrid	125076
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	207888.00
15	Construction of retaining wall. (As per table K) Hybrid	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6772444.248

Item Code No.0104C					
Cost data for 33/11 kV 2 X 10 MVA New S/S33 kV Outdoor & 11 kV Indoor					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	60612.00	303060.00
4	33 KV Post Insulator	Nos	6	600.83	3604.99
5	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
6	AAAC 232 mm2	MTR	200	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
8	Earthing complete as per Sheet no.2	Set	2	291631.00	583262.00
9	Power Transformer 33/11 KV, 10 MVA	No	2	6327722.70	12655445.40
10	33 KV P.T.	Nos	3	22651.20	67953.60
11	33 kV C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
12	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	68229.60	136459.20
14	33 kV Pin Insulators with G.I. Pins	Nos	12	462.50	5550.01
15	Structure for 33 KV CT & PT as per Sheet no.3	No	2	64895.85	129791.70
16	G.I.Nut Bolts	KG	150	111.92	16787.25
17	Gantry Structure/Steel section for 33 KV Bus as per Table No.1	Nos	1.00	263209.50	263209.50
18	Marshalling Box	No.	2	5783.40	11566.80
B	11 KV SIDE				
19	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3584805.30	3584805.30
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1468.62	881172.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1662.00	13296.00
22	Clamps and Connectors as per Sheet no.4	No.	1	520314.92	520314.92
23	S/S Yard lighting as per Sheet no.5	No.	1	253197.25	253197.25
24	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
25	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	248538.65	248538.65
26	Control cables for S/S as per Sheet no.7	No.	1	220803.67	220803.67
27	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				20865689.43
1	Erection cost on material		5.00%		1043284
2	Contractor supervision charges on material		5.00%		1043284
	Sub-Total				22952258
3	Contractor's Profit		5.00%		1147613
	Sub-Total				24099871
4	Transportation on material		4.00%		834628
5	T&P on material cost		1.00%		208657
6	Contingencies on material		2.00%		417314
	Service Cost				51746910
	Sub-Total				25560470
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		51121
	Sub-Total				25611590
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		256116
9	Insurance		1.00%		256116
10	Turnkey Charges		0.00%		0
	Total				26123822
9	Civil Works As per Sheet 'C'	No.	1		6805063
	Total Cost of Estimate				32928885

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	39655243	26123843
Civil Works As per Sheet 'C'	8673793	6805063
Total Cost of the Estimate	48329036	32928906

Sheet
No.1

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 2x10 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x10 MVA, 33/11 KV S/Str.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 2x10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
				Total:	520314.92

Sheet
No.5

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 KV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C

Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	195637
2	Control room (As per table B) Hybrid	3809684.073
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D) Hybrid	299240.5
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	644821
8	Metal Spreading (As per table F) Hybrid	125076
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	32618.261
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	104335.59
14	Const of cable trench with covers in S/Yard. (As per table J) Hybrid	207888.00
15	Construction of retaining wall. (As per table K) Hybrid	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6805062.509

Cost data for 33/11 kV 1 X 5 MVA New S/S33 kV Outdoor & 11 kV Indoor with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	RSJ 125x70, 8 m long	Nos	8	6322.05	50576.40
6	G.I.Channel 100x50x6mm	Kg.	1650	94.61	156103.20
7	G.I.Angle 75x40 mm	Kg.	100	94.61	9460.80
8	G.I Flat 50x10 mm	Kg.	80	90.15	7212.24
9	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
12	Earthing complete as per Sheet no.1	Set	1	330925.00	330925.00
13	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
14	33 KV P.T.	Nos	3	22651.20	67953.60
15	33 KV C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
18	33 KV Pin Insulators with G.I Pins	Nos	6	462.50	2775.01
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	64895.85	64895.85
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Marshalling Box	No.	1	5783.40	5783.40
B	11 KV SIDE				
22	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1958473.00	1958473.00
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1468.62	440586.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
25	Clamps and Connectors as per Sheet no.3	No.	1	314267.40	314267.40
26	S/S Yard lighting as per Sheet no.4	No.	1	247869.50	247869.50
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	248538.65	248538.65
29	Control cables for S/S as per Sheet no.6	No.	1	109806.49	109806.49
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D Cost of material **8898136.12**

1	Erection cost on material	5.00%	444907
2	Contractor supervision charges on material	5.00%	444907
	Sub-Total		9787950
3	Contractor's Profit	5.00%	489397
	Sub-Total		10277347
4	Transportation on material	4.00%	355925
5	T&P on material cost	1.00%	88981
6	Contingencies on material	2.00%	177963
	Service Cost		22067378
	Sub-Total		10900217
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	21800
	Sub-Total		10922017
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	109220
9	Insurance	1.00%	109220
10	Turnkey Charges	0.00%	0

Total **11140458**

9	Civil Works As per Sheet 'C'	No.	1	6660268
	Total Cost of Estimate			17800726

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	16910908	11140466
Civil Works As per Sheet 'C'	8489237	6660268
Total Cost of the Estimate	25400145	17800735

Sheet
No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I. Flat 50 x 6 mm	Kg.	1500	90.15	135229.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	3162.50	3162.50
Total:					330925.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
Total:					64895.85

Sheet
No.3

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
Total:					314267.40

Sheet
No.4

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cum	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
Total:					247869.50

Sheet
No.5

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.6

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C

Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	195637
2	Control room (As per table B) Hybrid	3809684.073
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D) Hybrid	299240.5
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	644821
8	Metal Spreading (As per table F) Hybrid	125076
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	104335.59
14	Const of cable trench with covers in S/Yard. (As per table J) Hybrid	207888.00
15	Construction of retaining wall. (As per table K) Hybrid	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6660268.288

Cost data for 33/11 kV 1 X 10 MVA New S/S33 kV Outdoor & 11 kV Indoor with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lighting Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	RSJ 125x70, 8 m long	Nos	8	6322.05	50576.40
6	G.I.Channel 100x50x6mm	Kg.	1650	94.61	156103.20
7	G.I.Angle 75x40 mm	Kg.	100	94.61	9460.80
8	G.I Flat 50x10 mm	Kg.	80	90.15	7212.24
9	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
12	Earthing complete as per Sheet no.1	Set	1	330925.00	330925.00
13	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
14	33 KV P.T.	Nos	3	22651.20	67953.60
15	33 KV C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
18	33 kv Pin Insulators with G.I Pins	Nos	6	462.50	2775.01
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	64895.85	64895.85
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Marshalling Box	No.	1	5783.40	5783.40
B	11 KV SIDE				
22	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1958473.00	1958473.00
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1468.62	440586.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
25	Clamps and Connectors as per Sheet no.3	No.	1	314267.40	314267.40
26	S/S Yard lighting as per Sheet no.4	No.	1	247869.50	247869.50
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	248538.65	248538.65
29	Control cables for S/S as per Sheet no.6	No.	1	109806.49	109806.49
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				11171175.67
1	Erection cost on material	5.00%			558559
2	Contractor supervision charges on material	5.00%			558559
	Sub-Total				12288293
3	Contractor's Profit	5.00%			614415
	Sub-Total				12902708
4	Transportation on material	4.00%			446847
5	T&P on material cost	1.00%			111712
6	Contingencies on material	2.00%			223424
	Service Cost				27704516
	Sub-Total				13684690
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%			27369
	Sub-Total				13712060
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			137121
9	Insurance	1.00%			137121
10	Turnkey Charges	0.00%			0
	Total				13986301
9	Civil Works As per Sheet 'C'	No.	1		6660268
	Total Cost of Estimate				20646569

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	21230819	13986312
Civil Works As per Sheet 'C'	8489237	6660268
Total Cost of the Estimate	29720056	20646580

Sheet
No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	90.15	135229.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	3162.50	3162.50
				Total:	330925.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.3

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	314267.40

Sheet
No.4

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cum	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	247869.50

Sheet
No.5

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.6

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C

Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	195637
2	Control room (As per table B) Hybrid	3809684.073
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D) Hybrid	299240.5
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	644821
8	Metal Spreading (As per table F) Hybrid	125076
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	207888.00
15	Construction of retaining wall. (As per table K) Hybrid	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6660268.288

Cost data for 33/11 kV 2 X 5 MVA New S/S33 kV Outdoor & 11 kV Indoor with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	60612.00	303060.00
4	33 KV Post Insulator	Nos	6	600.83	3604.99
5	RSJ 125x70, 8 m long	Nos	16	6322.05	101152.80
6	G.I.Channel 100x50x6mm	Kg.	3300	94.61	312206.40
7	G.I.Angle 75x40 mm	Kg.	200	94.61	18921.60
8	G.I Flat 50x10 mm	Kg.	160	90.15	14424.48
9	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
10	AAAC 232 mm ²	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
12	Earthing complete as per Sheet no.1	Set	2	291631.00	583262.00
13	Power Transformer 33/11 KV, 5 MVA	No	2	4054683.15	8109366.30
14	33 KV P.T.	Nos	3	22651.20	67953.60
15	33 KV C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	68229.60	136459.20
18	33 KV Pin Insulators with G.I. Pins	Nos	12	462.50	5550.01
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	64895.85	129791.70
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Marshalling Box	No.	2	5783.40	11566.80
B	11 KV SIDE				
22	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3584805.30	3584805.30
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1468.62	881172.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1662.00	13296.00
25	Clamps and Connectors as per Sheet no.3	No.	1	385399.50	385399.50
26	S/S Yard lighting as per Sheet no.4	No.	1	253197.25	253197.25
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	248538.65	248538.65
29	Control cables for S/S as per Sheet no.6	No.	1	220803.67	220803.67
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				16368190.69
1	Erection cost on material		5.00%		818410
2	Contractor supervision charges on material		5.00%		818410
	Sub-Total				18005010
3	Contractor's Profit		5.00%		900250
	Sub-Total				18905260
4	Transportation on material		4.00%		654728
5	T&P on material cost		1.00%		163682
6	Contingencies on material		2.00%		327364
	Service Cost				40593113
	Sub-Total				20051034
7	BG Charges on 10% of the LOA amount (on Material+centage)		0.20%		40102
	Sub-Total				20091136
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		200911
9	Insurance		1.00%		200911
10	Turnkey Charges		0.00%		0
	Total				20492958
9	Civil Works As per Sheet 'C'	No.	1		6772444
	Total Cost of Estimate				27265403

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	31107746	20492975
Civil Works As per Sheet 'C'	8632217	6772444
Total Cost of the Estimate	39739964	27265419

Sheet
No.1

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 2x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.3

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	385399.50

Sheet
No.4

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.5

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.6

Cost data for Control cable 2 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C

Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	195637
2	Control room (As per table B) Hybrid	3809684.073
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D) Hybrid	299240.5
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	644821
8	Metal Spreading (As per table F) Hybrid	125076
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	207888.00
15	Construction of retaining wall. (As per table K) Hybrid	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6772444.248

Cost data for 33/11 kV 2 X 10 MVA New S/S33 kV Outdoor & 11 kV Indoor with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
2	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	60612.00	303060.00
4	33 KV Post Insulator	Nos	6	600.83	3604.99
5	RSJ 125x70, 8 m long	Nos	16	6322.05	101152.80
6	G.I.Channel 100x50x6mm	Kg.	3300	94.61	312206.40
7	G.I.Angle 75x40 mm	Kg.	200	94.61	18921.60
8	G.I Flat 50x10 mm	Kg.	160	90.15	14424.48
9	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
10	AAAC 232 mm ²	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
12	Earthing complete as per Sheet no.1	Set	2	291631.00	583262.00
13	Power Transformer 33/11 KV, 10 MVA	No	2	6327722.70	12655445.40
14	33 KV P.T.	Nos	3	22651.20	67953.60
15	33 KV C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	68229.60	136459.20
18	33 KV Pin Insulators with G.I Pins	Nos	12	462.50	5550.01
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	64895.85	129791.70
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Marshalling Box	No.	2	5783.40	11566.80
B	11 KV SIDE				
22	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3584805.30	3584805.30
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1468.62	881172.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1662.00	13296.00
25	Clamps and Connectors as per Sheet no.3	No.	1	385399.50	385399.50
26	S/S Yard lighting as per Sheet no.4	No.	1	253197.25	253197.25
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	248538.65	248538.65
29	Control cables for S/S as per Sheet no.6	No.	1	220803.67	220803.67
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				20914269.79
1	Erection cost on material		5.00%		1045713
2	Contractor supervision charges on material		5.00%		1045713
	Sub-Total				23005697
3	Contractor's Profit		5.00%		1150285
	Sub-Total				24155982
4	Transportation on material		4.00%		836571
5	T&P on material cost		1.00%		209143
6	Contingencies on material		2.00%		418285
	Service Cost				51867389
	Sub-Total				25619980
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		51240
	Sub-Total				25671220
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		256712
9	Insurance		1.00%		256712
10	Turnkey Charges		0.00%		0
	Total				26184645
9	Civil Works As per Sheet 'C'	No.	1		6805063
	Total Cost of Estimate				32989707

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	39747570	26184666
Civil Works As per Sheet 'C'	8673793	6805063
Total Cost of the Estimate	48421363	32989728

Sheet
No.1

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 2x10 MVA, 33/11 KV S/Strn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.3

Cost data for Clamps & Connectors at 2x10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	385399.50

Sheet
No.4

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.5

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.6

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C

Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	195637
2	Control room (As per table B) Hybrid	3809684.073
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D) Hybrid	299240.5
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	644821
8	Metal Spreading (As per table F) Hybrid	125076
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	32618.261
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	207888.00
15	Construction of retaining wall. (As per table K) Hybrid	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6805062.509

Cost data for Augmentation of 33/11 KV, 1x3.15 MVA to 1x5 MVA Power T/F (Outdoor)[if associated switch gears available]

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
D	Cost of material				4054683.15
1	Erection cost on material		5.00%		202734
2	Contractor supervision charges on material		5.00%		202734
	Sub-Total				4460151
3	Contractor's Profit		5.00%		223008
	Sub-Total				4683159
4	Transportation on material		4.00%		162187
5	T&P on material cost		1.00%		40547
6	Contingencies on material		2.00%		81094
	Service Cost				10055614
	Sub-Total				4966987
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		9934
	Sub-Total				4976921
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		49769
9	Insurance		1.00%		49769
10	Turnkey Charges		0.00%		0
	Total				5076459

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	7705925	5076463
Total Cost of the Estimate	7705925	5076463

Item Code No. 0202					
Cost data for Augmentation of 33/11 KV, 1x5 MVA to 1x10 MVA Power T/F (Outdoor)					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
2	C&R panel for 33 KV Transformer with Diff. Protection	No	1	74800.80	74800.80
3	AAAC 232 mm2	Mtr	75	159.25	11943.75
4	33 kv C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
B					
1	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
2	Clamps and Connectors as per Sheet no.1	No.	1	217894.82	217894.82
3	Take off structure for 3 outgoing feeder as per Sheet no.2	No.	1	326454.11	326454.11
4	Structure for 11 KV Main Bus as per Sheet no.3	No.	1	276569.56	276569.56
5	Armoured Copper control cable 7Cx2.5 sq.mm.	mtr	125	180.95	22618.38
D Cost of material					8328123.17
1	Erection cost on material		5.00%		416406
2	Contractor supervision charges on material		5.00%		416406
Sub-Total					9160935
3	Contractor's Profit		5.00%		458047
Sub-Total					9618982
4	Transportation on material		4.00%		333125
5	T&P on material cost		1.00%		83281
6	Contingencies on material		2.00%		166562
Service Cost					20653745
Sub-Total					10201951
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		20404
Sub-Total					10222355
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		102224
9	Insurance		1.00%		102224
10	Turnkey Charges		0.00%		0
Total					10426802

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost of Material	15827598	10426810
Total Cost of the Estimate	15827598	10426810

--
 Sheet
 No. 1

Cost data for Clamps & Connectors at 1x 10 MVA,3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	217894.82

Sheet
No : 2

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm2	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet
No.3

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm2	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Item Code No. 0203					
Cost data for Augmentation of 33/11 KV, 1x3.15 MVA to 1x10 MVA Power T/F (Outdoor)					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
2	C&R panel for 33 KV Transformer with Diff. Protection	No	1	74800.80	74800.80
3	33 KV C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
5	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
6	33 KV Isolators without EB (800 Amp.)	Set	2	60612.00	121224.00
7	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
8	AAAC 232 mm2	Mtr	300	159.25	47775.00
9	Structure for 33 KV CT as per Sheet no.1	No	1	36853.65	36853.65
10	Control cables for S/S as per Sheet no.2	No.	1	22618.38	22618.38
11	Clamps and Connectors as per Sheet no.3	No.	1	193620.90	193620.90
B					
1	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
2	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
3	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	326454.11	326454.11
4	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	276569.56	276569.56
D					
Cost of material					8831417.15
1	Erection cost on material		5.00%		441571
2	Contractor supervision charges on material		5.00%		441571
Sub-Total					9714559
3	Contractor's Profit		5.00%		485728
Sub-Total					10200287
4	Transportation on material		4.00%		353257
5	T&P on material cost		1.00%		88314
6	Contingencies on material		2.00%		176628
Service Cost					21901915
Sub-Total					10818486
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		21637
Sub-Total					10840123
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		108401
9	Insurance		1.00%		108401
10	Turnkey Charges		0.00%		0
Total					11056925
9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor				800457
Total Estimate					11857382

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	16784108	11056934
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	1020270	800457
Total Cost of the Estimate	17804378	11857391

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Sheet
No.1

Cost data of Structure for 33 KV CT & PT at 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	315	69.93	22027.95
2	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Power T/F Neutral Earthing	Kg.	25	69.93	1748.25
4	G.I.Nut Bolts	Kg.	20	111.92	2238.30
Total:					36853.65

Sheet
No.2

Cost data for Control cable 1 X 10 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 7Cx2.5 sq.mm.	mtr	125	180.95	22618.38
				TOTAL	22618.38

Sheet
No. 3

Cost data for Clamps & Connectors at 1x 10 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	193620.90

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x10MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Item Code No. 0204					
Cost data for Augmentation of 33/11 KV, 1x3.15 MVA to 1x5 MVA Power T/F (Outdoor)[if associated switch gear not available]					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
2	33 KV P.T.	Nos	3	22651.20	67953.60
3	33 KV C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
5	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
6	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
7	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
8	Structure for 33 KV CT & PT as per Sheet no.1	No	1	64895.85	64895.85
9	Control cables for S/S as per Sheet no.2	No.	1	109806.49	109806.49
10	Clamps and Connectors as per Sheet no.3	No.	1	217894.82	217894.82
11	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60

D	Cost of material		5229716.71
1	Erection cost on material	5.00%	261486
2	Contractor supervision charges on material	5.00%	261486
	Sub-Total		5752688
3	Contractor's Profit	5.00%	287634
	Sub-Total		6040323
4	Transportation on material	4.00%	209189
5	T&P on material cost	1.00%	52297
6	Contingencies on material	2.00%	104594
	Service Cost		12969697
	Sub-Total		6406403
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	12813
	Sub-Total		6419216
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	64192
9	Insurance	1.00%	64192
10	Turnkey Charges	0.00%	0
	Total		6547600

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	9939077	6547605
Total Cost of the Estimate	9939077	6547605

Sheet
No.1

Cost data of Structure for 33 KV CT & PT at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
	Total:				64895.85

Sheet
No.2

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
	TOTAL				109806.49

Cost data for Clamps & Connectors at 1x 5 MVA, 33/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	217894.82

Item Code No. 0205					
Cost data for Augmentation of 33/11 KV, 2x3.15 MVA to 2x5 MVA Power T/F (Outdoor)[if associated switch gears available]					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Power Transformer 33/11 KV, 5 MVA	No	2	4054683.15	8109366.30
2	33 KV C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
3	33 KV VCB complete 1600 Amp (O.D.)	Set	2	225349.60	450699.20
4	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
5	33 KV Isolators without EB (800 Amp.)	Set	4	60612.00	242448.00
6	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
6	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
7	Clamps and Connectors as per Sheet no.5	No.	1	217894.82	217894.82
9	Control cables for S/S as per Sheet no.7	No.	2	109806.49	219612.97
10	Structure for 33 KV CT & PT as per Sheet no.3	No	2	64895.85	129791.70
11	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	164080.35	164080.35
12	Earthing complete as per Sheet no.2	Set	1	291631.00	291631.00
13	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
14	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	276569.56	276569.56
15	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	326454.11	326454.11

D	Cost of material		11680444.07
1	Erection cost on material	5.00%	584022
2	Contractor supervision charges on material	5.00%	584022
	Sub-Total		12848488
3	Contractor's Profit	5.00%	642424
	Sub-Total		13490913
4	Transportation on material	4.00%	467218
5	T&P on material cost	1.00%	116804
6	Contingencies on material	2.00%	233609
	Service Cost		28967501
	Sub-Total		14308544
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	28617
	Sub-Total		14337161
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	143372
9	Insurance	1.00%	143372
10	Turnkey Charges	0.00%	0
	Total		14623904

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor		800457
	Total Cost of Estimate		15424361

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	22198684	14623916
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	1020270	800457
Total Cost of the Estimate	23218954	15424373

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 Sheet
 No.1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	129902.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
				Total:	164080.35

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet
No. 5

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	217894.82

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Sheet
No - 7

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	LS	1	517.50	517.50
				TOTAL	109806.49

Item Code No. 0206					
Cost data for Augmentation of 33/11 KV, 2x5 MVA to 2x10 MVA Power T/F (Outdoor)					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Power Transformer 33/11 KV, 10 MVA	No	2	6327722.70	12655445.40
2	C&R panel for 33 KV Transformer with Diff. Protection	No	2	74800.80	149601.60
3	AAAC 232 mm2	Mtr	300	159.25	47775.00
4	33 kv C. T. (400-200/1-1-1)	Nos	6	30013.20	180079.20
5	Clamps and Connectors as per Sheet no.1	No.	1	289026.92	289026.92
B	11 KV Side				
1	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
2	Take off structure for 3 outgoing feeder as per Sheet no.2	No.	2	351439.91	702879.83
3	Structure for 11 KV Main Bus as per Sheet no.3	No.	2	276569.56	553139.12
4	Armoured Copper control cable 7Cx2.5 sq.mm.	mtr	250	180.95	45236.75
D	Cost of material				16583342.72
1	Erection cost on material		5.00%		829167
2	Contractor supervision charges on material		5.00%		829167
	Sub-Total				18241677
3	Contractor's Profit		5.00%		912084
	Sub-Total				19153761
4	Transportation on material		4.00%		663334
5	T&P on material cost		1.00%		165833
6	Contingencies on material		2.00%		331667
	Service Cost				41126690
	Sub-Total				20314595
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		40629
	Sub-Total				20355224
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		203552
9	Insurance		1.00%		203552
10	Turnkey Charges		0.00%		0
	Total				20762329

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	31516643	20762345
Total Cost of the Estimate	31516643	20762345

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 Sheet
 No. 1

Cost data for Clamps & Connectors at 2x 10 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
	Total:				289026.92

Sheet
No : 2

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm2	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	351439.91

Sheet
No.3

Cost data for Structure of 11 KV Main Bus at 2x10MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm2	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Item Code No. 0301					
Cost data for 33/11 KV, 1x5 MVA Additional Power T/F (Outdoor) without Gantry structure					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	Earthing complete as per sheet No. 1	Set	1	291631.00	291631.00
6	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
7	33 kv C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
8	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
9	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
10	Structure for 33 KV CT as per Sheet no. 2	No	1	42867.90	42867.90
11	G.I.Nut Bolts	KG	100	111.92	11191.50
B	11 KV SIDE				
12	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
13	11 kv Pin Insulators with G.I. Pins	No	12	108.66	1303.94
14	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
15	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	326454.11	326454.11
16	Clamps and Connectors as per Sheet no. 4	No.	1	212892.32	212892.32
17	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	276569.56	276569.56
18	Control cables for S/S as per Sheet no.6	No.	1	109806.49	109806.49

D	Cost of material				6965015.92
1	Erection cost on material	5.00%			348251
2	Contractor supervision charges on material	5.00%			348251
	Sub-Total				7661518
3	Contractor's Profit	5.00%			383076
	Sub-Total				8044593
4	Transportation on material	4.00%			278601
5	T&P on material cost	1.00%			69650
6	Contingencies on material	2.00%			139300
	Service Cost				17273239
	Sub-Total				8532144
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%			17064
	Sub-Total				8549209
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			85492
9	Insurance	1.00%			85492
10	Turnkey Charges	0.00%			0
	Total				8720193
9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	No.	1	800457.00	800457
	Total Cost of Estimate				9520650

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	13237013	8720200
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	1020270	800457
Total Cost of the Estimate	14257282	9520657

Sheet
No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 33 KV CT & LA at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	69.93	25174.80
2	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet
No. 4

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	212892.32

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x 5 MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Sheet
No.6

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	LS	1	517.50	517.50
				TOTAL	109806.49

Cost data for Additional 33/11 KV, 1x 10 MVA (Outdoor) without Gantry Structure

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
6	AAAC 232 mm2	MTR	200	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
8	Earthing complete as per Sheet no.1	Set	1	291631.00	291631.00
9	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
10	33 kv C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
11	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
12	C&R panel for 33 KV Transformer with Diff. Protection	No	1	74800.80	74800.80
13	33 kv Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
14	Structure for 33 KV CT as per Sheet no.2	No	1	42867.90	42867.90
15	G.I.Nut Bolts	KG	150	111.92	16787.25
B	11 KV SIDE				
16	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
17	11 kv Pin Insulators with G.I. Pins	No	12	108.66	1303.94
18	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
19	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	409484.04	409484.04
20	Clamps and Connectors as per Sheet no.4	No.	1	218398.52	218398.52
21	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	338224.67	338224.67
22	Control cables for S/S as per Sheet no.6	No.	1	109806.49	109806.49
23	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material **9469101.55**

1	Erection cost on material	5.00%	473455
2	Contractor supervision charges on material	5.00%	473455
	Sub-Total		10416012
3	Contractor's Profit	5.00%	520801
	Sub-Total		10936812
4	Transportation on material	4.00%	378764
5	T&P on material cost	1.00%	94691
6	Contingencies on material	2.00%	189382
	Service Cost		23483372
	Sub-Total		11599649
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	23199
	Sub-Total		11622849
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	116228
9	Insurance	1.00%	116228
10	Turnkey Charges	0.00%	0

Total **11855306**

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	No.	1	800457.00	800457
	Total Cost of Estimate				12655763

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	17996028	11855315
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	1020270	800457
Total Cost of the Estimate	19016297	12655772

Sheet
No.1

Cost data for Earthing Work at 1x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 33 KV CT & PT at 1x10 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	69.93	25174.80
2	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	409484.04

Sheet
No. 4

Cost data for Clamps & Connectors at 1x 10 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	825.92	24777.62
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	218398.52

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x10MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	338224.67

Sheet
No.6

Cost data for Control cable 1 X 10 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

Item Code No. 0301A					
Cost data for 33/11 KV, 1x5 MVA Additional Power T/F (Outdoor) with Gantry structure for 33 KV bus					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
6	AAAC 232 mm2	MTR	200	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
8	Earthing complete as per sheet No. 1	Set	1	291631.00	291631.00
9	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
10	33 kv C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
11	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
12	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
13	Structure for 33 KV CT as per Sheet no. 2	No	1	42867.90	42867.90
14	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.7	Nos	1	164080.35	164080.35
15	33 kv Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
16	G.I.Nut Bolts	KG	100	111.92	11191.50
17	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
B	11 KV SIDE				
18	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
19	11 kv Pin Insulators with G.I. Pins	No	12	108.66	1303.94
20	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
21	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	326454.11	326454.11
22	Clamps and Connectors as per Sheet no. 4	No.	1	212892.32	212892.32
23	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	276569.56	276569.56
24	Control cables for S/S as per Sheet no.6	No.	1	109806.49	109806.49

D	Cost of material				7178289.17
1	Erection cost on material	5.00%			358914
2	Contractor supervision charges on material	5.00%			358914
	Sub-Total				7896118
3	Contractor's Profit	5.00%			394806
	Sub-Total				8290924
4	Transportation on material	4.00%			287132
5	T&P on material cost	1.00%			71783
6	Contingencies on material	2.00%			143566
	Service Cost				17802157
	Sub-Total				8793404
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			17587
	Sub-Total				8810991
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			88110
9	Insurance	1.00%			88110
10	Turnkey Charges	0.00%			0
	Total				8987211
9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	No.	1	800457.00	800457
	Total Cost of Estimate				9787668

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	13642339	8987218
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	1020270	800457
Total Cost of the Estimate	14662608	9787675

Sheet No.1

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet No.2

Cost data of Structure for 33 KV CT & LA at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	69.93	25174.80
2	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Sheet No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet No. 4

Cost data for Clamps & Connectors at 1x 5 MVA, 33/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	212892.32

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x 5 MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Sheet
No.6

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

Sheet
No.7

Cost data for 33 KV Gantry M.S. Structure/Steel Section for 1x 5 MVA & 1x10 MVA 33/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	129902.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
				Total:	164080.35

Cost data for Additional 33/11 KV, 1x 10 MVA (Outdoor) with Gantry structure for 33 KV bus.

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	164080.35	164080.35
6	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
9	Earthing complete as per Sheet no.2	Set	1	291631.00	291631.00
10	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
11	33 KV C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
13	C&R panel for 33 KV Transformer with Diff. Protection	No	1	74800.80	74800.80
14	33 kv Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
15	Structure for 33 KV CT & LA as per Sheet no.3	No	1	42867.90	42867.90
16	G.I.Nut Bolts	KG	150	111.92	16787.25
17	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
B	11 KV SIDE				
18	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
19	11 kv Pin Insulators with G.I. Pins	No	12	108.66	1303.94
20	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	409484.04	409484.04
22	Clamps and Connectors as per Sheet no.5	No.	1	218398.52	218398.52
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	338224.67	338224.67
24	Control cables for S/S as per Sheet no.7	No.	1	109806.49	109806.49
25	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material **9638011.90**

1	Erection cost on material	5.00%	481901
2	Contractor supervision charges on material	5.00%	481901
	Sub-Total		10601813
3	Contractor's Profit	5.00%	530091
	Sub-Total		11131904
4	Transportation on material	4.00%	385520
5	T&P on material cost	1.00%	96380
6	Contingencies on material	2.00%	192760
	Service Cost		23902270
	Sub-Total		11806565
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	23613
	Sub-Total		11830178
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	118302
9	Insurance	1.00%	118302
10	Turnkey Charges	0.00%	0

Total **12066781**

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	No.	1	800457.00	800457
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Total Cost of Estimate

12867238

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	18317042	12066791
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	1020270	800457
Total Cost of the Estimate	19337311	12867248

Sheet
No.1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x10 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	129902.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
				Total:	164080.35

Sheet
No.2

Cost data for Earthing Work at 1x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 33 KV CT & LA at 1x5 MVA 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	69.93	25174.80
2	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	409484.04

Sheet
No. 5

Cost data for Clamps & Connectors at 1x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	825.92	24777.62
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	218398.52

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	338224.67

Sheet
No.7

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	LS	1	517.50	517.50
				TOTAL	109806.49

Item Code No.0301B					
Cost data for 33/11 KV, 1x5 MVA Additional Power T/F, 33 kV Outdoor, 11 kV Indoor, without Gantry structure					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
6	AAAC 232 mm2	MTR	200	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
8	Earthing complete as per Sheet no.1	Set	1	330925.00	330925.00
9	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
10	33 KV P.T.	Nos	3	22651.20	67953.60
11	33 kV C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	68229.60	68229.60
14	33 kV Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
15	Structure for 33 KV CT & LA as per Sheet no.2	No	1	42867.90	42867.90
16	G.I.Nut Bolts	KG	150	111.92	16787.25
17	Marshalling Box	No.	1	5783.40	5783.40
18	Clamps and Connectors as per Sheet no.3	No.	1	314267.40	314267.40
B	11 KV SIDE				
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1958473.00	1958473.00
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1468.62	440586.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
22	Control cables for S/S as per Sheet no.4	No.	1	109806.49	109806.49
23	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				8073547.38
1	Erection cost on material		5.00%		403677
2	Contractor supervision charges on material		5.00%		403677
	Sub-Total				8880902
3	Contractor's Profit		5.00%		444045
	Sub-Total				9324947
4	Transportation on material		4.00%		322942
5	T&P on material cost		1.00%		80735
6	Contingencies on material		2.00%		161471
	Service Cost				20022398
	Sub-Total				9890096
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		19780
	Sub-Total				9909876
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		99099
9	Insurance		1.00%		99099
10	Turnkey Charges		0.00%		0
	Total				10108073
9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor				800457
	Total Cost of Estimate				10908530

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	15343777	10108081
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	1020270	800457
Total Cost of the Estimate	16364046	10908538

Sheet
No.1

Cost data for Earthing Work at 1x5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I. Flat 50 x 6 mm	Kg.	1500	90.15	135229.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	3162.50	3162.50
Total:					330925.00

Sheet
No.2

Cost data of Structure for 33 KV CT & LA at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	69.93	25174.80
2	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
Total:					42867.90

Sheet
No.3

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
Total:					314267.40

Sheet
No.4

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
TOTAL					109806.49

Cost data for 33/11 KV, 1x10 MVA Additional Power T/F, 33 kV Outdoor, 11 kV Indoor, without Gantry structure					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	33 KV SIDE				
1	33 KV Lightning Arrestors (Station type)	Set	2	11296.50	22593.00
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	60612.00	181836.00
4	33 KV Post Insulator	Nos	3	600.83	1802.49
5	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
6	AAAC 232 mm2	MTR	200	159.25	31850.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
8	Earthing complete as per Sheet no.1	Set	1	291631.00	291631.00
9	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
10	33 KV P.T.	Nos	3	22651.20	67953.60
11	33 kV C. T. (400-200/1-1-1)	Nos	3	30013.20	90039.60
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
13	C&R panel for 33 KV Transformer with Diff. Protection	No	1	74800.80	74800.80
14	33 kV Pin Insulators with G.I. Pins	Nos	6	462.50	2775.01
15	Structure for 33 KV CT & LA as per Sheet no.2	No	1	42867.90	42867.90
16	G.I.Nut Bolts	KG	150	111.92	16787.25
17	Marshalling Box	No.	1	5783.40	5783.40
18	Clamps and Connectors as per Sheet no.3	No.	1	314267.40	314267.40
B	11 KV SIDE				
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1958473.00	1958473.00
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1468.62	440586.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1662.00	6648.00
22	Control cables for S/S as per Sheet no.4	No.	1	109806.49	109806.49
23	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				10313864.13
1	Erection cost on material		5.00%		515693
2	Contractor supervision charges on material		5.00%		515693
	Sub-Total				11345251
3	Contractor's Profit		5.00%		567263
	Sub-Total				11912513
4	Transportation on material		4.00%		412555
5	T&P on material cost		1.00%		103139
6	Contingencies on material		2.00%		206277
	Service Cost				25578383
	Sub-Total				12634484
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		25269
	Sub-Total				12659753
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		126598
9	Insurance		1.00%		126598
10	Turnkey Charges		0.00%		0
	Total				12912948
9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor				800457
	Total Cost of Estimate				13713405

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	19601499	12912958
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	1020270	800457
Total Cost of the Estimate	20621768	13713415

Sheet
No.1

Cost data for Earthing Work at 1x5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 33 KV CT & LA at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	69.93	25174.80
2	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Sheet
No.3

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	314267.40

Sheet
No.4

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S.	1	517.50	517.50
				TOTAL	109806.49

Item Code No. 301C					
Cost data for Additional 33/22 KV, 1x 5 MVA (Outdoor)					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	33 KV Lightning Arrestors (Station type)	Set	1	11296.50	11296.50
2	33 KV VCB complete 1600 Amp (O.D.)	No	1	225349.60	225349.60
3	33 KV C. T. (400-200/1-1-1)	No	3	30013.20	90039.60
4	33 KV Isolators without EB (800 Amp.)	Set	2	60612.00	121224.00
5	Power Transformer 33/22 KV 5 MVA	No	1	4329504.00	4329504.00
6	Earthing complete as per Sheet no.4	Set	1	291631.00	291631.00
7	C&R panel for 33 KV Transformer with 1 Amp. Relay	Set	1	68229.60	68229.60
8	G.I.Nut Bolts	Kg	20	111.92	2238.30
9	Marshalling Box	No	1	5783.40	5783.40
10	Fire Extinguisher with stand	Set	1	4830.00	4830.00
11	Structure for 33 KV CT/LA/Post Insulator as per Table No 1	No	1	42867.90	42867.90
22KV SIDE					
1	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	1484586.75	1484586.75
2	22 KV Lightning Arrestors (Station type)	Set	1	13666.01	13666.01
3	22 KV Pin Insulators with G.I. Pins	No	12	386.40	4636.80
4	Clamps and Connectors as per Table No 2	No	1	212892.32	212892.32
5	Control Cables as per Table No 3	No	1	109806.49	109806.49
6	Take off structure for 3 outgoing feeder as per Sheet no.5	No.	1	267122.08	326454.11
7	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	215501.27	276569.56
TOTAL COST OF MATERIAL					7621605.94

1	Erection cost on material	5.00%	381080
2	Contractor supervision charges on material	5.00%	381080
Sub-Total			8383767
3	Contractor's Profit	5.00%	419188
Sub-Total			8802955
4	Transportation on material	4.00%	304864
5	T&P on material cost	1.00%	76216
6	Contingencies on material	2.00%	152432
Service Cost			18901583
Sub-Total			9336467
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	18673
Sub-Total			9355140
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	93551
9	Insurance	1.00%	93551
10	Turnkey Charges	0.00%	0
Total			9542243

9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor		800457
Total Cost of Estimate			10342700

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	14484862	9542251
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	1020270	800457
Total Cost of the Estimate	15505132	10342708

Sheet
No.1

Cost data of Structure for 33 KV CT & LA at 1x5 MVA 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	69.93	25174.80
2	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Sheet
No. 2

Cost data for Clamps & Connectors at 1x 5 MVA, 33/22 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	212892.32

Sheet
No - 3

Cost data for Control cable 1 X 5 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

Sheet
No.4

Cost data for Earthing Work at 1x 5 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No : 5

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Item Code No. 302C					
Cost data for Additional 33/22 KV, 1x 10 MVA (Outdoor)					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	33 KV Lightning Arrestors (Station type)	Set	1	11296.50	11296.50
2	33 KV VCB complete 1600 Amp (O.D.)	No	1	225349.60	225349.60
3	33 kv C. T. (400-200/1-1-1)	No	3	30013.20	90039.60
4	33 KV Isolators without EB (800 Amp.)	Set	2	60612.00	121224.00
5	Power Transformer 33/22 KV 10 MVA	No	1	6690267.90	6690267.90
6	Earthing complete as per Sheet no.4	Set	1	291631.00	291631.00
7	C&R panel for 33 KV Transformer with Diff. Protection	Set	1	74800.80	74800.80
8	G.I.Nut Bolts	Kg	20	111.92	2238.30
9	Marshalling Box	No	1	5783.40	5783.40
10	Fire Extinguisher with stand	Set	1	4830.00	4830.00
11	Structure for 33 KV CT/LA/Post Insulator as per Table No 1	No	1	42867.90	42867.90
22KV SIDE					
1	22 kv 500 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	1484586.75	1484586.75
2	22 KV Lightning Arrestors (Station type)	Set	1	13666.01	13666.01
3	22 KV Pin Insulators with G.I. Pins	No	12	386.40	4636.80
4	Clamps and Connectors as per Table No 2	No	1	212892.32	212892.32
5	Control Cables as per Table No 3	No	1	109806.49	109806.49
6	Take off structure for 3 outgoing feeder as per Sheet no.5	No.	1	267122.08	326454.11
7	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	215501.27	276569.56
TOTAL COST OF MATERIAL					9988941.04

1	Erection cost on material	5.00%	499447
2	Contractor supervision charges on material	5.00%	499447
Sub-Total			10987835
3	Contractor's Profit	5.00%	549392
Sub-Total			11537227
4	Transportation on material	4.00%	399558
5	T&P on material cost	1.00%	99889
6	Contingencies on material	2.00%	199779
Service Cost			24772574
Sub-Total			12236453
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	24473
Sub-Total			12260926
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	122609
9	Insurance	1.00%	122609
10	Turnkey Charges	0.00%	0
Total			12506144
9	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor		800457
Total Cost of Estimate			13306601

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	18983982	12506154
Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	1020270	800457
Total Cost of the Estimate	20004252	13306611

Sheet
No.1

Cost data of Structure for 33 KV CT & PT at 1x10 MVA 33/22 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV CT	Kg.	360	69.93	25174.80
2	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Sheet
No. 2

Cost data for Clamps & Connectors at 1x 10 MVA, 33/22 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	212892.32

Sheet
No - 3

Cost data for Control cable 1 X 10 MVA S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

Sheet
No.4

Cost data for Earthing Work at 1x 10 MVA at 33/22 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No : 5

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm2	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Cost data for 22/11 KV, 1x5 MVA Substation (Outdoor)

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	2	13666.01	27332.01
2	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
3	22 KV Isolators without EB (800 Amp.)	Set	3	42816.00	128448.00
4	22 KV Post Insulator	Nos	3	474.36	1423.09
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	164080.35	164080.35
6	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
9	Earthing complete as per Sheet no.2	Set	1	291631.00	291631.00
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	4462032.15	4462032.15
11	22 KV P.T.	Nos	3	21426.00	64278.00
12	22 KV C.T. Three core.	Nos	3	29998.80	89996.40
13	22 KV VCB complete 1600 Amp (O.D.)	Set	1	206540.00	206540.00
14	C&R panel for 22 KV Transformer with 1 A relay	No	1	91000.80	91000.80
15	22 kv Pin Insulators with G.I. Pins	Nos	6	386.40	2318.40
16	Structure for 22 KV CT & PT as per Sheet no.3	No	1	64895.85	64895.85
17	G.I.Nut Bolts	KG	150	111.92	16787.25
18	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
B	11 KV SIDE				
19	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
20	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	326454.11	326454.11
22	11 kv Pin Insulators with G.I. Pins	No.	12	108.66	1303.94
23	Clamps and Connectors as per Sheet no.5	No.	1	210956.87	210956.87
24	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	276569.56	276569.56
25	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	246518.60	246518.60
28	Control cables for S/S as per Sheet no.9	No.	1	109806.49	109806.49
29	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
D	Cost of material				8220507.07
1	Erection cost on material	5.00%			411025
2	Contractor supervision charges on material	5.00%			411025
	Sub-Total				9042558
3	Contractor's Profit	5.00%			452128
	Sub-Total				9494686
4	Transportation on material	4.00%			328820
5	T&P on material cost	1.00%			82205
6	Contingencies on material	2.00%			164410
	Service Cost				20386858
	Sub-Total				10070121
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			20140
	Sub-Total				10090261
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			100903
9	Insurance	1.00%			100903
10	Turnkey Charges	0.00%			0
	Total				10292067
9	Civil works	No.	1		9191040
	Total Cost of Estimate				19483107

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	15623074	10292075
Civil works	11714982	9191040
Total Cost of the Estimate	27338055	19483115

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 1x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	129902.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
				Total:	164080.35

Sheet
No.2

Cost data for Earthing Work at 1x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 1x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet
No. 5

Cost data for Clamps & Connectors at 1x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
	Total:				210956.87

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
	Total:				276569.56

Sheet
No.7

Cost data for Yard Lighting of 1 x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
	Total:				253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
		Total:			246518.60

Sheet
No.9

Cost data for Control cable 1 X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	9191040.408

Item Code No. 0402					
Cost data for 22/11 KV, 1x10 MVA Substation (Outdoor)					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	2	13666.01	27332.01
2	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
3	22 KV Isolators without EB (800 Amp.)	Set	3	42816.00	128448.00
4	22 KV Post Insulator	Nos	3	474.36	1423.09
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	164080.35	164080.35
6	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
9	Earthing complete as per Sheet no.2	Set	1	291631.00	291631.00
10	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	6439026.15	6439026.15
11	22 KV P.T.	Nos	3	21426.00	64278.00
12	22 KV C.T. Three core.	Nos	3	29998.80	89996.40
13	22 KV VCB complete 1600 Amp (O.D.)	Set	1	206540.00	206540.00
14	C&R panel for 22 KV Transformer with Diff. Protection	No	1	136639.20	136639.20
15	22 kv Pin Insulators with G.I. Pins	Nos	6	386.40	2318.40
16	Structure for 22 KV CT & PT as per Sheet no.3	No	1	64895.85	64895.85
17	G.I.Nut Bolts	KG	150	111.92	16787.25
18	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
B	11 KV SIDE				
19	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
20	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	411640.31	411640.31
22	11 kv Pin Insulators with G.I. Pins	No.	12	108.66	1303.94
23	Clamps and Connectors as per Sheet no.5	No.	1	216463.07	216463.07
24	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	338224.67	338224.67
25	S/S Yard lighting as per Sheet no.7	No.	1	222305.00	222305.00
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	246518.60	246518.60
28	Control cables for S/S as per Sheet no.9	No.	1	109806.49	109806.49
29	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material				10364594.72
1	Erection cost on material	5.00%		518230
2	Contractor supervision charges on material	5.00%		518230
	Sub-Total			11401054
3	Contractor's Profit	5.00%		570053
	Sub-Total			11971107
4	Transportation on material	4.00%		414584
5	T&P on material cost	1.00%		103646
6	Contingencies on material	2.00%		207292
	Service Cost			25704195
	Sub-Total			12696629
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		25393
	Sub-Total			12722022
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		127220
9	Insurance	1.00%		127220
10	Turnkey Charges	0.00%		0
	Total			12976462
9	Civil works	No.	1	9191040
	Total Cost of Estimate			22167503

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	19697912	12976473
Civil works	11714982	9191040
Total Cost of the Estimate	31412894	22167513

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 1x10 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	1.984	65475.00	129902.40
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	65475.00	34177.95
				Total:	164080.35

Sheet
No.2

Cost data for Earthing Work at 1x10 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 1x10 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x10 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	411640.31

Sheet
No. 5

Cost data for Clamps & Connectors at 1x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	825.92	24777.62
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
				Total:	216463.07

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 1x10MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	338224.67

Sheet
No.7

Cost data for Yard Lighting of 1 x10 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	7245.00	86940.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	5537.25	66447.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt.	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cmt.	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	222305.00

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x10 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
		Total:			246518.60

Sheet
No.9

Cost data for Control cable 1 X10 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C

Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	9191040.408

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
2	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
3	22 KV Isolators without EB (800 Amp.)	Set	5	42816.00	214080.00
4	22 KV Post Insulator	Nos	6	474.36	2846.18
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	263209.50	526419.00
6	Disc Insulator 11 KV 70 KN	Nos	72	310.01	22320.92
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
9	Earthing complete as per Sheet no.2	Set	2	291631.00	583262.00
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	4462032.15	8924064.30
11	22 KV P.T.	Nos	3	21426.00	64278.00
12	22 KV C.T. Three core.	Nos	12	29998.80	359985.60
13	22 KV VCB complete 1600 Amp (O.D.)	Set	2	206540.00	413080.00
14	C&R panel for 22 KV Transformer with 1 A relay	No	2	91000.80	182001.60
16	22 KV Pin Insulators with G.I. Pins	Nos	24	386.40	9273.60
17	Structure for 22 KV CT & PT as per Sheet no.3	No	2	64895.85	129791.70
18	G.I.Nut Bolts	KG	150	111.92	16787.25
19	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
20	Marshalling Box	Nos.	4	5783.40	23133.60
B	11 KV SIDE				
21	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isulators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
22	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
23	Take off structure for 6 outgoing feeder as per Sheet no.4	No.	2	351439.91	702879.83
24	11 kV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
25	Clamps and Connectors as per Sheet no.5	No.	1	210956.87	210956.87
26	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	276569.56	276569.56
27	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
28	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
29	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	246518.60	246518.60
30	Control cables for S/S as per Sheet no.9	No.	2	220803.67	441607.34
31	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

	Cost of material			15875233.53
1	Erection cost on material	5.00%		793762
2	Contractor supervision charges on material	5.00%		793762
	Sub-Total			17462757
3	Contractor's Profit	5.00%		873138
	Sub-Total			18335895
4	Transportation on material	4.00%		635009
5	T&P on material cost	1.00%		158752
6	Contingencies on material	2.00%		317505
	Service Cost			39370579
	Sub-Total			19447161
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		38894
	Sub-Total			19486055
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		194861
9	Insurance	1.00%		194861
10	Turnkey Charges	0.00%		0
	Total			19875777
9	Civil works	No.	1	9991497
	Total Cost of Estimate			29867274

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	30170881	19875792
Civil works	12735251	9991497
Total Cost of the Estimate	42906133	29867290

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	351439.91

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
				Total:	210956.87

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 2x5MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Sheet
No.7

Cost data for Yard Lighting of 2x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
					253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	246518.60

Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	9991497.408

Cost data for 22/11 KV, 2x10 MVA Substation (Outdoor)

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lighting Arrestors (Station type)	Set	4	13666.01	54664.02
2	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
3	22 KV Isolators without EB (800 Amp.)	Set	5	42816.00	214080.00
4	22 KV Post Insulator	Nos	6	474.36	2846.18
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	263209.50	526419.00
6	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
9	Earthing complete as per Sheet no.2	Set	2	291631.00	583262.00
10	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	2	6439026.15	12878052.30
11	22 KV P.T.	Nos	3	21426.00	64278.00
12	22 KV C.T. Three core.	Nos	6	29998.80	179992.80
13	22 KV VCB complete 1600 Amp (O.D.)	Set	2	206540.00	413080.00
14	C&R panel for 22 KV Transformer with Diff. Protection	No	2	136639.20	273278.40
16	22 kv Pin Insulators with G.I. Pins	Nos	12	386.40	4636.80
17	Structure for 22 KV CT & PT as per Sheet no.3	No	2	64895.85	129791.70
18	G.I.Nut Bolts	KG	150	111.92	16787.25
19	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
B	11 KV SIDE				
20	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
21	Take off structure for 6 outgoing feeder as per Sheet no.4	No.	2	436626.11	873252.21
22	11 kv Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
23	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
24	Clamps and Connectors as per Sheet no.5	No.	1	216463.07	216463.07
25	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	338224.67	338224.67
26	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	251606.30	251606.30
29	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
30	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material			19723392.39
1	Erection cost on material	5.00%	986170
2	Contractor supervision charges on material	5.00%	986170
	Sub-Total		21695732
3	Contractor's Profit	5.00%	1084787
	Sub-Total		22780518
4	Transportation on material	4.00%	788936
5	T&P on material cost	1.00%	197234
6	Contingencies on material	2.00%	394468
	Service Cost		48914013
	Sub-Total		24161156
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	48322
	Sub-Total		24209478
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	242095
9	Insurance	1.00%	242095
10	Turnkey Charges	0.00%	0
	Total		24693668
9	Civil works	No.	1
	Total Cost of Estimate		34717783

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	37484307	24693687
Civil works	12776826	10024115
Total Cost of the Estimate	50261134	34717803

Cost data for 22 KV Gantry M.S.Structure/Steel Section for 2x 10 MVA, 22/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
Total:					263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
Total:					291631.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x 10 MVA, 22/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
Total:					64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm2	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
Total:					436626.11

Sheet
No. 5

Cost data for Clamps & Connectors at 2x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	825.92	24777.62
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
				Total:	216463.07

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 2X10MVA, 22/11 KV Sub-station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	338224.67

Sheet
No.7

Cost data for Yard Lighting of 2X10 MVA, 22/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt.	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x10 MVA 22/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Sheet
No.9

Cost data Control cable 2 X10 MVA 22/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C

Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	32618
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	10024115.41

Item Code No. 0405					
Cost data for 22/11 KV,1x5 MVA & 1x10 MVA Outdoor Substation					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 22 KV SIDE					
1	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
2	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
3	22 KV Isolators without EB (800 Amp.)	Set	10	42816.00	428160.00
4	22 KV Post Insulator	Nos	6	474.36	2846.18
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	263209.50	526419.00
6	Disc Insulator 11 KV 70 KN	Nos	72	310.01	22320.92
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
9	Earthing complete as per Sheet no.2	Set	2	291631.00	583262.00
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	4462032.15	4462032.15
11	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	6439026.15	6439026.15
12	22 KV P.T.	Nos	3	21426.00	64278.00
13	22 KV C.T. Three core.	Nos	12	29998.80	359985.60
14	22 KV VCB complete 1600 Amp (O.D.)	Set	2	206540.00	413080.00
15	C&R panel for 22 KV Transformer with Diff. Protection	No	1	136639.20	136639.20
16	C&R panel for 22 KV Transformer with 1 A relay	No	1	91000.80	91000.80
17	22 KV Pin Insulators with G.I. Pins	Nos	24	386.40	9273.60
18	Structure for 22 KV CT & PT as per Sheet no.3	No	2	64895.85	129791.70
19	G.I.Nut Bolts	KG	150	111.92	16787.25
20	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
21	Marshalling Box	Nos.	4	5783.40	23133.60
B 11 KV SIDE					
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
23	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
24	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	416826.55	833653.11
25	11 KV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
26	Clamps and Connectors as per Sheet no.5	No.	1	216463.07	216463.07
27	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	355937.09	711874.18
28	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	246518.60	246518.60
31	Control cables for S/S as per Sheet no.9	No.	2	220803.67	441607.34
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material				18683530.03
1	Erection cost on material	5.00%		934177
2	Contractor supervision charges on material	5.00%		934177
Sub-Total				20551883
3	Contractor's Profit	5.00%		1027594
Sub-Total				21579477
4	Transportation on material	4.00%		747341
5	T&P on material cost	1.00%		186835
6	Contingencies on material	2.00%		373671
Service Cost				46335154
Sub-Total				22887324
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		45775
Sub-Total				22933099
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		229331
9	Insurance	1.00%		229331
10	Turnkey Charges	0.00%		0
Total				23391761
9	Civil works	No.	1	10024115
Total Cost of Estimate				33415876

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	35508049	23391780
Civil works	12776826	10024115
Total Cost of the Estimate	48284875	33415895

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
Total:					263209.50

Sheet
No.2

Cost data for Earthing Work at 22/11 KV for 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
Total:					291631.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
Total:					64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 22/11 KV ,1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm2	Rmt.	150	159.25	23887.50
12	AAAC 100 mm2	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	19	642.38	12205.24
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
Total:					416826.55

Sheet
No. 5

Cost data for Clamps & Connectors at 22/11 kv 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	825.92	24777.62
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
	Total:				216463.07

Sheet
No.6

Cost data for Structure of 11 KV Main Bus at 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm2	Rmt.	150	159.25	23887.50
11	AAAC 100 mm2	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	12	642.38	7708.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
14	Miscellaneous material	LS	1	517.50	517.50
	Total:				355937.09

Sheet
No.7

Cost data for Yard Lighting of 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
	Total:				253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	246518.60

Sheet
No.9

Cost data for Control cable 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
5	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C

Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	32618
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	10024115.41

Cost data for 22/11 KV, 1x5 MVA Substation (Outdoor) with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	2	13666.01	27332.01
2	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
3	22 KV Isolators without EB (800 Amp.)	Set	3	42816.00	128448.00
4	22 KV Post Insulator	Nos	3	474.36	1423.09
5	RSJ 125x70, 8 m long	Nos	8	6322.05	50576.40
6	MS Channel 100x50x6 mm	Kg.	1650	69.93	115384.50
7	M.S. Angel(75 X 40 mm)	Kg.	100	69.93	6993.00
8	M.S. Flats(50 X 10mm)	Kg.	80	65.48	5238.00
9	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
12	Earthing complete as per Sheet no.1	Set	1	291631.00	291631.00
13	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	4462032.15	4462032.15
14	22 KV P.T.	Nos	3	21426.00	64278.00
15	22 KV C.T. Three core.	Nos	3	29998.80	89996.40
16	22 KV VCB complete 1600 Amp (O.D.)	Set	1	206540.00	206540.00
17	C&R panel for 22 KV Transformer with 1 A relay	No	1	91000.80	91000.80
18	22 kv Pin Insulators with G.I. Pins	Nos	6	386.40	2318.40
19	Structure for 22 KV CT & PT as per Sheet no.2	No	1	64895.85	64895.85
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
B	11 KV SIDE				
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
23	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	326454.11	326454.11
25	11 kv Pin Insulators with G.I. Pins	No.	12	108.66	1303.94
26	Clamps and Connectors as per Sheet no.4	No.	1	210956.87	210956.87
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	276569.56	276569.56
28	S/S Yard lighting as per Sheet no.6	No.	1	253197.25	253197.25
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	246518.60	246518.60
31	Control cables for S/S as per Sheet no.8	No.	1	109806.49	109806.49
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

D	Cost of material			8234618.62
1	Erection cost on material	5.00%		411731
2	Contractor supervision charges on material	5.00%		411731
	Sub-Total			9058080
3	Contractor's Profit	5.00%		452904
	Sub-Total			9510985
4	Transportation on material	4.00%		329385
5	T&P on material cost	1.00%		82346
6	Contingencies on material	2.00%		164692
	Service Cost			20421854
	Sub-Total			10087408
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		20175
	Sub-Total			10107583
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		101076
9	Insurance	1.00%		101076
10	Turnkey Charges	0.00%		0
	Total			10309734
9	Civil works	No.	1	9191040
	Total Cost of Estimate			19500775

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	15649893	10309743
Civil works	11714982	9191040
Total Cost of the Estimate	27364874	19500783

Sheet
No.1

Cost data for Earthing Work at 1x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 22 KV CT & PT at 1x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	326454.11

Sheet
No. 4

Cost data for Clamps & Connectors at 1x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
				Total:	210956.87

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x5MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Sheet
No.6

Cost data for Yard Lighting of 1 x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt.	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt.	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
					253197.25

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Bolts Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	246518.60

Cost data for Control cable 1 X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
5	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	9191040.408

Cost data for 22/11 KV, 1x10 MVA Substation (Outdoor) with RSJ pole structure					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	2	13666.01	27332.01
2	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
3	22 KV Isolators without EB (800 Amp.)	Set	3	42816.00	128448.00
4	22 KV Post Insulator	Nos	3	474.36	1423.09
5	RSJ 125x70, 8 m long	Nos	8	6322.05	50576.40
6	MS Channel 100x50x6 mm	Kg.	1650	69.93	115384.50
7	M.S. Angel(75 X 40 mm)	Kg.	100	69.93	6993.00
8	M.S. Flats(50 X 10mm)	Kg.	80	65.48	5238.00
9	Disc Insulator 11 KV 70 KN	Nos	18	310.01	5580.23
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	692.94	4157.66
12	Earthing complete as per Sheet no.1	Set	1	291631.00	291631.00
13	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	6439026.15	6439026.15
14	22 KV P.T.	Nos	3	21426.00	64278.00
15	22 KV C.T. Three core.	Nos	3	29998.80	89996.40
16	22 KV VCB complete 1600 Amp (O.D.)	Set	1	206540.00	206540.00
17	C&R panel for 22 KV Transformer with Diff. Protection	No	1	136639.20	136639.20
18	22 kv Pin Insulators with G.I. Pins	Nos	6	386.40	2318.40
19	Structure for 22 KV CT & PT as per Sheet no.2	No	1	64895.85	64895.85
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
B	11 KV SIDE				
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	1	980079.45	980079.45
23	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	409484.04	409484.04
25	11 kv Pin Insulators with G.I. Pins	No.	12	108.66	1303.94
26	Clamps and Connectors as per Sheet no.4	No.	1	216463.07	216463.07
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	338224.67	338224.67
28	S/S Yard lighting as per Sheet no.6	No.	1	222305.00	222305.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	246518.60	246518.60
31	Control cables for S/S as per Sheet no.8	No.	1	109806.49	109806.49
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

	Cost of material			10376550.00
1	Erection cost on material	5.00%		518828
2	Contractor supervision charges on material	5.00%		518828
	Sub-Total			11414205
3	Contractor's Profit	5.00%		570710
	Sub-Total			11984915
4	Transportation on material	4.00%		415062
5	T&P on material cost	1.00%		103766
6	Contingencies on material	2.00%		207531
	Service Cost			25733844
	Sub-Total			12711274
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%		25423
	Sub-Total			12736696
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		127367
9	Insurance	1.00%		127367
10	Turnkey Charges	0.00%		0
	Total			12991430
9	Civil works	No.	1	9191040
	Total Cost of Estimate			22182471

Particulars		
	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	19720633	12991441
Civil works	11714982	9191040
Total Cost of the Estimate	31435615	22182481

Sheet
No.1

Cost data for Earthing Work at 1x10 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 22 KV CT & PT at 1x10 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x10 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	409484.04

Sheet
No. 4

Cost data for Clamps & Connectors at 1x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	825.92	24777.62
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
				Total:	216463.07

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 1x10MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	338224.67

Sheet
No.6

Cost data for Yard Lighting of 1 x10 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	12	7245.00	86940.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	5537.25	66447.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cmt	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	222305.00

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x10 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	246518.60

Cost data for Control cable 1 X10 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
5	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	0
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
Total=		9191040.408

Cost data for 22/11 KV, 2x5 MVA Substation (Outdoor) with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
2	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
3	22 KV Isolators without EB (800 Amp.)	Set	5	42816.00	214080.00
4	22 KV Post Insulator	Nos	6	474.36	2846.18
5	RSJ 125x70, 8 m long	Nos	16	6322.05	101152.80
6	MS Channel 100x50x6 mm	Kg.	3300	69.93	230769.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	69.93	13986.00
8	M.S. Flats(50 X 10mm)	Kg.	160	65.48	10476.00
9	Disc Insulator 11 KV 70 KN	Nos	72	310.01	22320.92
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
12	Earthing complete as per Sheet no.1	Set	2	291631.00	583262.00
13	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	4462032.15	8924064.30
14	22 KV P.T.	Nos	3	21426.00	64278.00
15	22 KV C.T. Three core.	Nos	6	29998.80	179992.80
16	22 KV VCB complete 1600 Amp (O.D.)	Set	2	206540.00	413080.00
17	C&R panel for 22 KV Transformer with 1 A relay	No	2	91000.80	182001.60
18	22 KV Pin Insulators with G.I. Pins	Nos	24	386.40	9273.60
19	Structure for 22 KV CT & PT as per Sheet no.2	No	2	64895.85	129791.70
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Fire Extinguisher with stand	Set	L.S	4830.00	4000.00
22	Marshalling Box	Nos.	4	5783.40	23133.60
B	11 KV SIDE				
23	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
24	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
25	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	351439.91	702879.83
26	11 kv Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
27	Clamps and Connectors as per Sheet no.4	No.	1	289120.07	289120.07
28	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	276569.56	553139.12
29	S/S Yard lighting as per Sheet no.6	No.	1	253197.25	253197.25
30	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
31	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	246518.60	246518.60
32	Control cables for S/S as per Sheet no.8	No.	2	220803.67	441607.34
33	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material

15879108.29

1	Erection cost on material	5.00%	793955
2	Contractor supervision charges on material	5.00%	793955
	Sub-Total		17467019
3	Contractor's Profit	5.00%	873351
	Sub-Total		18340370
4	Transportation on material	4.00%	635164
5	T&P on material cost	1.00%	158791
6	Contingencies on material	2.00%	317582
	Service Cost		39380189
	Sub-Total		19451908
7	BG Charges on 10% of the LOA amount (on Material-centage)	0.20%	38904
	Sub-Total		19490811
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	194908
9	Insurance	1.00%	194908
10	Turnkey Charges	0.00%	0
	Total		19880628
9	Civil works	No.	1
	Total Cost of Estimate		29872125

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	30178245	19880644
Civil works	12735251	9991497
Total Cost of the Estimate	42913496	29872141

Sheet
No.1

Cost data for Earthing Work at 2x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
Total:					291631.00

Sheet
No.2

Cost data of Structure for 22 KV CT & PT at 2x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
Total:					64895.85

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
Total:					351439.91

Sheet
No. 4

Cost data for Clamps & Connectors at 2x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	42	1173.00	49266.00
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 22 KV C.T.	Nos.	12	1638.75	19665.00
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	12	2346.00	28152.00
Total:					289120.07

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 2x5MVA, 22/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 100 sq mm conductor	Nos.	12	842.95	10115.40
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	276569.56

Sheet
No.6

Cost data for Yard Lighting of 2x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
					253197.25

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 KV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Bolts Washer & Misc Material	LS	1	2781.00	2781.00
				Total:	246518.60

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
5	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	0
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	9991497.408

Cost data for 22/11 KV, 2x10 MVA Substation (Outdoor) with RSJ pole structure					
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 22 KV SIDE					
1	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
2	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
3	22 KV Isolators without EB (800 Amp.)	Set	7	42816.00	299712.00
4	22 KV Post Insulator	Nos	6	474.36	2846.18
5	RSJ 125x70, 8 m long	Nos	8	6322.05	50576.40
6	MS Channel 100x50x6 mm	Kg.	1650	69.93	115384.50
7	M.S. Angel(75 X 40 mm)	Kg.	100	69.93	6993.00
8	M.S. Flats(50 X 10mm)	Kg.	80	65.48	5238.00
9	Disc Insulator 11 KV 70 KN	Nos	36	310.01	11160.46
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
12	Earthing complete as per Sheet no.1	Set	2	291631.00	583262.00
13	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	2	6439026.15	12878052.30
14	22 KV P.T.	Nos	3	21426.00	64278.00
15	22 KV C.T. Three core.	Nos	6	29998.80	179992.80
16	22 KV VCB complete 1600 Amp (O.D.)	Set	2	206540.00	413080.00
17	C&R panel for 22 KV Transformer with Diff. Protection	No	2	136639.20	273278.40
18	22 kv Pin Insulators with G.I. Pins	Nos	12	386.40	4636.80
19	Structure for 22 KV CT & PT as per Sheet no.2	No	2	64895.85	129791.70
20	G.I.Nut Bolts	KG	150	111.92	16787.25
21	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
B 11 KV SIDE					
22	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Islators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
23	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	434469.84	868939.69
24	11 kv Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
25	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
26	Clamps and Connectors as per Sheet no.4	No.	1	294626.27	294626.27
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	338224.67	676449.34
28	S/S Yard lighting as per Sheet no.6	No.	1	253197.25	253197.25
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	251606.30	251606.30
31	Control cables for S/S as per Sheet no.8	No.	1	220803.67	220803.67
32	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					19872872.63

1	Erection cost on material	5.00%	993644
2	Contractor supervision charges on material	5.00%	993644
Sub-Total			21860160
3	Contractor's Profit	5.00%	1093008
Sub-Total			22953168
4	Transportation on material	4.00%	794915
5	T&P on material cost	1.00%	198729
6	Contingencies on material	2.00%	397457
Service Cost			49284724
Sub-Total			24344269
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	48689
Sub-Total			24392958
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	243930
9	Insurance	1.00%	243930
10	Turnkey Charges	0.00%	0
Total			24880817

9	Civil works	No.	1	10024115
Total Cost of Estimate				34904932
	Particulars	DPR Amount	Tender/ Estimate Amount	
		90.05%	25.200%	
	Cost with overheads on Material	37768394	24880837	
	Civil works	12776826	10024115	
	Total Cost of the Estimate	50545221	34904952	

Sheet
No.1

Cost data for Earthing Work at 2x 10 MVA at 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.2

Cost data of Structure for 22 KV CT & PT at 2x 10 MVA, 22/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	434469.84

Sheet
No. 4

Cost data for Clamps & Connectors at 2x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	825.92	24777.62
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	42	1173.00	49266.00
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 22 KV C.T.	Nos.	12	1638.75	19665.00
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	12	2346.00	28152.00
				Total:	294626.27

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 2X10MVA, 22/11 KV Sub-station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm2	Rmt.	150	159.25	23887.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	338224.67

Sheet
No.6

Cost data for Yard Lighting of 2X10 MVA, 22/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x10 MVA 22/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Cost data Control cable 2 X10 MVA 22/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
5	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	32618
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
Total=		10024115.41

Cost data for 22/11 KV,1x5 MVA & 1x10 MVA Outdoor Substation with RSJ pole structure

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
2	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
3	22 KV Isolators without EB (800 Amp.)	Set	5	42816.00	214080.00
4	22 KV Post Insulator	Nos	6	474.36	2846.18
5	RSJ 125x70, 8 m long	Nos	16	6322.05	101152.80
6	MS Channel 100x50x6 mm	Kg.	3300	69.93	230769.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	69.93	13986.00
8	M.S. Flats(50 X 10mm)	Kg.	160	65.48	10476.00
9	Disc Insulator 11 KV 70 KN	Nos	72	310.01	22320.92
10	AAAC 232 mm2	MTR	200	159.25	31850.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
12	Earthing complete as per Sheet no.1	Set	2	291631.00	583262.00
13	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	4462032.15	4462032.15
14	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	6439026.15	6439026.15
15	22 KV P.T.	Nos	3	21426.00	64278.00
16	22 KV C.T. Three core.	Nos	6	29998.80	179992.80
17	22 KV VCB complete 1600 Amp (O.D.)	Set	2	206540.00	413080.00
18	C&R panel for 22 KV Transformer with Diff. Protection	No	1	136639.20	136639.20
19	C&R panel for 22 KV Transformer with 1 A relay	No	1	91000.80	91000.80
20	22 kv Pin Insulators with G.I. Pins	Nos	24	386.40	9273.60
21	Structure for 22 KV CT & PT as per Sheet no.2	No	2	64895.85	129791.70
22	G.I.Nut Bolts	KG	150	111.92	16787.25
23	Fire Extinguisher with stand	Set	L.S	4830.00	4830.00
24	Marshalling Box	Nos.	4	5783.40	23133.60
B	11 KV SIDE				
25	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
26	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
27	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	416250.87	832501.73
28	11 kv Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
29	Clamps and Connectors as per Sheet no.4	No.	1	216463.07	216463.07
30	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	359858.07	719716.13
31	S/S Yard lighting as per Sheet no.6	No.	1	253197.25	253197.25
32	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
33	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	246518.60	246518.60
34	Control cables for S/S as per Sheet no.8	No.	2	220803.67	441607.34
35	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material					18126112.61
1	Erection cost on material	5.00%			906306
2	Contractor supervision charges on material	5.00%			906306
Sub-Total					19938724
3	Contractor's Profit	5.00%			996936
Sub-Total					20935660
4	Transportation on material	4.00%			725045
5	T&P on material cost	1.00%			181261
6	Contingencies on material	2.00%			362522
Service Cost					44952759
Sub-Total					22204488
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			44409
Sub-Total					22248897
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			222489
9	Insurance	1.00%			222489
10	Turnkey Charges	0.00%			0
Total					22693875
9	Civil works	No.	1		10024115
Total Cost of Estimate					32717990

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	34448677	22693893
Civil works	12776826	10024115
Total Cost of the Estimate	47225503	32718008

Sheet
No.1

Cost data for Earthing Work at 22/11 KV for 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
Total:					291631.00

Sheet
No.2

Cost data of Structure for 22 KV CT & PT at 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
Total:					64895.85

Sheet
No : 3

Cost data for Take off structure for 11 KV Feeders 3 outlets at 22/11 KV ,1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	AAAC 100 mm ²	Rmt.	151	66.69	10070.54
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	G.I.Nut Bolts	Kg.	50	111.92	5595.75
15	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
16	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
17	Miscellaneous material	LS	1	517.50	517.50
Total:					416250.87

Sheet
No. 4

Cost data for Clamps & Connectors at 22/11 kv 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	825.92	24777.62
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
Total:					216463.07

Sheet
No.5

Cost data for Structure of 11 KV Main Bus at 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	692.94	24945.98
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 232 mm2	Rmt.	150	159.25	23887.50
11	AAAC 100 mm2	Rmt.	151	66.69	10070.54
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3854.80	46257.60
b)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
17	Miscellaneous material	LS	1	517.50	517.50
				Total:	359858.07

Sheet
No.6

Cost data for Yard Lighting of 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
					253197.25

Sheet
No. 7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	246518.60

Sheet
No - 8

Cost data for Control cable 22/11 KV 1x5 MVA & 1x10 MVA Outdoor Sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
5	Miscellaneous material	LS	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) + Stn Trans. (As table G) Outdoor	910936
10	Equipment Foundations for additional 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G1) Outdoor	800457
11	10 MVA Power Transformer Plinth Foundation (as per table G2)	0
12	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Outdoor	32618
13	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
14	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
15	Const.of cable trench with covers in S/Yard. (As per table J)	356790
16	Construction of retaining wall. (As per table K)	950653.561
17	Rain Water Harvesting (As per Table L)	73475
18	Culvert (As per Table N) If required	179692.5
	Total=	10024115.41

Cost data for 22/11 KV, 1 X 10 MVA Indoor S/s

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 kV Switchgear part				
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No.	1	6439026.15	6439026.15
2	C&R panel for 22 KV Transformer with Diff. Protection	No.	1	136639.20	136639.20
3	22 kV 1000 MVA 1600 Amp.IN Door Type VCB	No.	1	1132942.05	1132942.05
4	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	100	1932.48	193248.00
5	22 KV Heat shrink Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	4	12874.00	51496.00
6	22 kV SF6 Isolator	No.	2	491517.19	983034.38
7	Foundation for 22 kV Isolators	Cmt.	5.2	3935.10	20462.52
8	RSJ 152x152, 13 m long	No.	2	29108.70	58217.40
9	Concreting ration 1:3:6	Cmt.	2.02	3935.10	7948.90
10	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
11	Marshalling Box	No.	2	5783.40	11566.80
12	0.2 ACSR or equivalent AAAC Loop Connector	No.	12	943.00	11316.00
13	Clamps for 22 KV Isolator	No.	12	1173.00	14076.00
14	Transformer Clamps	No.	6	829.15	4974.90
15	AAAC 232 mm ²	Mtr.	50	159.25	7962.50
16	Sundries	L.S.	1	885.50	885.50
B	11 kV Switchgear part				
17	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1958473.00	1958473.00
18	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	1000	1468.62	1468620.00
19	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	24	1662.00	39888.00
20	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
21	Control cables for S/S as per Sheet no.1	No.	1	298967.80	298967.80
22	Earthing complete as per Sheet no.2	Set	1	71412.73	71412.73
23	Sundries	L.S.	1	885.50	885.50

Cost of material

13004696.53

1	Erection cost on material	5.00%	650235
2	Contractor supervision charges on material	5.00%	650235
	Sub-Total		14305166
3	Contractor's Profit	5.00%	715258
	Sub-Total		15020424
4	Transportation on material	4.00%	520188
5	T&P on material cost	1.00%	130047
6	Contingencies on material	2.00%	260094
	Service Cost		32251647
	Sub-Total		15930753
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	31862
	Sub-Total		15962615
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	159626
9	Insurance	1.00%	159626
10	Turnkey Charges	0.00%	0

Total

16281867

9	Civil Works for plinth and other foundation works	L.S.	6601850
	Total Cost of Estimate		22883717

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	24715426	16281880
Civil works	8414777	6601850
Total Cost of the Estimate	33130203	22883730

Sheet
No - 1

Cost data for Control cable 22/11 KV 1x10 MVA Indoor Sub stn.

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Armoured Copper control cable 19C X 2.5 Sq mm	Mtr.	200	430.81	86161.40
2	Armoured Copper control cable 12C X 2.5 Sq mm	Mtr.	200	281.11	56222.40
3	Armoured Copper control cable 4C X 2.5 Sq mm	Mtr.	200	113.88	22776.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Mtr.	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	100	90.48	9048.00
6	Cable Trays 2.5 Mtr. X 6" W	No.	100	382.95	38295.00
7	G.I Angles (50X50X6mm) forcable tray	Kg.	400	94.61	37843.20
8	Sand	Cmt.	150	255.30	38295.00
9	Sundries e.g. Ferulls, Glands, Lugs etc.	L.S.	1	3162.50	3162.50
Total					298967.80

Sheet
No. 2

Cost data for Earthing Work at 22/11 KV for 1X10 MVA Indoor Sub stn.

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Earthing HDG Flat 75 X 10 mm	kg.	150	90.15	13522.95
2	Earthing HDG Flat 50 X 6 mm	kg.	75	90.15	6761.48
3	C.I. Plates 2' X 2'	No.	4	333.45	1333.80
4	C.I. Pipes 4" dia 3 Metre Long	No.	4	9760.50	39042.00
5	Salt	kg.	300	8.05	2415.00
6	Coal	kg.	300	17.25	5175.00
7	Sundries e.g. Ferulls, Glands, Lugs etc.	L.S.	1	3162.50	3162.50
Total					71412.73

Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Indoor	195637
2	Control room (As per table B) Indoor	3809684.073
3	Store room of size 8.0m X 6.0 m (As per table C) Indoor	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D) Indoor	299240.5
7	Chain link fencing and Bar bed wire fencing (As per table E) Indoor	644821
8	Metal Spreading (As per table F) Indoor	66658
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Indoor	63403.2
13	Borewell including pumpset and allied accessories. (As per table I) Indoor	104335.5933
14	Const.of cable trench with covers in S/Yard. (As per table J) Indoor	207888
15	Construction of retaining wall. (As per table K) Indoor	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.012
17	Culvert (As per Table N) Indoor if required	179692.5
		6601850.288

Cost data for 22/11 KV, 2x5 MVA Substation, 22 kv O/D, 11 kv I/D

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A	22 KV SIDE				
1	22 KV Lightning Arrestors (Station type)	Set	3	13666.01	40998.02
2	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
3	22 KV Isolators without EB (800 Amp.)	Set	4	42816.00	171264.00
4	22 KV Post Insulator	Nos	6	474.36	2846.18
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	246120.53	492241.05
6	Disc Insulator 11 KV 70 KN	Nos	72	310.01	22320.92
7	AAAC 232 mm2	MTR	200	159.25	31850.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	692.94	8315.33
9	Earthing complete as per Sheet no.2	Set	2	291631.00	583262.00
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	4462032.15	8924064.30
11	22 KV P.T.	Nos	3	21426.00	64278.00
12	22 KV C.T. Three core.	Nos	6	29998.80	179992.80
13	22 KV VCB complete 1600 Amp (O.D.)	Set	3	206540.00	619620.00
14	C&R panel for 22 KV Transformer with 1 A relay	No	2	91000.80	182001.60
15	C&R panel for 22 KV feeder breaker	No	1	59812.80	59812.80
16	22 kv Pin Insulators with G.I. Pins	Nos	24	386.40	9273.60
17	Structure for 22 KV CT & PT as per Sheet no.3	No	2	64895.85	129791.70
18	G.I.Nut Bolts	KG	150	111.92	16787.25
19	Marshalling Box	Nos.	4	5783.40	23133.60
B	11 KV SIDE				
20	11kv I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3584805.30	3584805.30
21	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	1600	1468.62	2349792.00
22	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
23	11 kv heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	20	1662.00	33240.00
24	Clamps and Connectors as per Sheet no.4	No.	1	101329.95	101329.95
25	S/S Yard lighting as per Sheet no.5	No.	1	253197.25	253197.25
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	254538.95	254538.95
28	Control cables for S/S as per Sheet no.7	No.	1	220803.67	220803.67
29	AC Distribution Board 'B' type	No.	1	24325.00	24325.00

Cost of material **18657504.17**

1	Erection cost on material	5.00%	932875
2	Contractor supervision charges on material	5.00%	932875
	Sub-Total		20523255
3	Contractor's Profit	5.00%	1026163
	Sub-Total		21549417
4	Transportation on material	4.00%	746300
5	T&P on material cost	1.00%	186575
6	Contingencies on material	2.00%	373150
	Service Cost		46270610
	Sub-Total		22855443
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	45711
	Sub-Total		22901153
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	229012
9	Insurance	1.00%	229012
10	Turnkey Charges	0.00%	0
	Total		23359177
9	Civil Works for plinth and other foundation works	L.S.	6805063
	Total Cost of Estimate		30164239

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	35458587	23359195
Civil works	8673793	6805063
Total Cost of the Estimate	44132380	30164258

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.783	65475.00	51266.93
				Total:	246120.53

Sheet
No.2

Cost data for Earthing Work at 2x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	0	266.00	0.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	291631.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No. 4

Cost data for Clamps & Connectors at 2x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 100 sq mm conductor	Nos.	30	842.95	25288.50
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
				Total:	101329.95

Sheet
No.5

Cost data for Yard Lighting of 2x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No. 6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x5 MVA 22/11 KV sub stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	254538.95

Sheet
No - 7

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
5	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) Hybrid	195637
2	Control room (As per table B) Hybrid	3809684.073
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D) Hybrid	299240.5
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	644821
8	Metal Spreading (As per table F) Hybrid	125076
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	32618.261
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	63403.2
13	Borewell including pumpset and allied accessories. (As per table I) Hybrid	104335.5933
14	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	207888
15	Construction of retaining wall. (As per table K) Hybrid	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.012
17	Culvert (As per Table N) Indoor if required	179692.5
	Total=	6805062.509

Item Code No. 0501					
Cost data for 22 Kv Switching Station (Outdoor)					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	22 KV feeder bay as per sheet "A"	Nos.	12	911856.85	10942282.17
2	22 KV Isolators without EB (800 Amp.)	Set	3	42816.00	128448.00
3	22 KV P.T.	No.	3	21426.00	64278.00
4	100 KVA, 22/0.4 KV with Dist. Box as per Sht.No.6.	Set	1	346543.28	346543.28
5	Battery set 30 Volt, 100 AH with Battery charger	Set	1	82800.00	82800.00
6	Bus Gantry and Fabrication material , Clamps,Connectors, Control Cables, and Earthing (As per Sht. No.1,2,3,5,7 &8.	L.S.	1	512819.09	512819.09
7	AC Distribution Board 'B' type	Nos.	1	24325.00	24325.00
8	Fire Extinguisher with stand	LS	1	4830.00	4830.00
9	Switchyard lighting(As per Sht.no.4)	Nos.	1	179707.05	179707.05

Cost of material			12286032.59
1	Erection cost on material	5.00%	614302
2	Contractor supervision charges on material	5.00%	614302
Sub-Total			13514636
3	Contractor's Profit	5.00%	675732
Sub-Total			14190368
4	Transportation on material	4.00%	491441
5	T&P on material cost	1.00%	122860
6	Contingencies on material	2.00%	245721
Service Cost			30469361
Sub-Total			15050390
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	30101
Sub-Total			15080491
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	150805
9	Insurance	1.00%	150805
10	Turnkey Charges	0.00%	0
Total			15382101
9	Civil works	No.	1
Total Cost of Estimate			24237202

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	23349605	15382113
Civil works	11286791	8855102
Total Cost of the Estimate	34636396	24237215

Sheet A

22 KV FEEDER BAY

Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
2	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
3	22 KV Isolators without EB (800 Amp.)	Set	1	42816.00	42816.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	206540.00	206540.00
5	CT 200-100/1-1 A , 22 KV	Nos.	3	28520.40	85561.20
6	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	91000.80	91000.80
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	409383.55	409383.55
8	Earthing as per Sheet (E)	L.S.	1	16845.70	16845.70

Cost of material 911856.85

22 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 22 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 22 KV CT	Kg.	315	69.93	22027.95
3	G.I. Gantry Structures	Kg.	1000	94.61	94608.00
4	G.I.Nut Bolts	Kg.	100	111.92	11191.50
5	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	165434.95
B) FOUNDATION(Civil works)					
1	Foundation for 22 KV Isolators	Cmt.	1.3	3935.10	5115.63
2	Foundation for 22 KV Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 22 KV Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
4	Foundation for 22 KV C.Ts	Cmt.	1.3	3935.10	5115.63
5	Foundation for 22 KV Breaker	Cmt.	1.3	3935.10	5115.63
6	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	35809.41
C) BUS-BAR MATERIAL					
1	AAAC 232 mm ²	Mtrs.	25	159.25	3981.25
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	12	971.75	11661.00
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	310.01	3720.15
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
				Sub Total:	158953.27
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands, rerules and tape etc.	L.S.	-	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/Steel Section for 22 KV Switching station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.783	65475.00	51266.93
				Total:	246120.53

Sheet
No.2

Cost data for Earthing Work at 22 KV switching station.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	140	65.48	9166.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	2	7245.00	14490.00
3	Coal	Kg.	200	17.25	3450.00
4	Salt	Kg.	200	8.05	1610.00
5	RCC Ring work for earthing pits	No.	2	266.00	532.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	30134.00

Sheet
No.3

Cost data of Structure for 22 KV , PT H/G fuse set at 22 KV SW/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV H/G.	Kg.	155	69.93	10839.15
3	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	36224.55

Sheet
No.4

Cost data for Yard Lighting at 22 KV switching station (Outdoor).

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	10	7245.00	72450.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	10	5537.25	55372.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	175	90.48	15834.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	75	100.10	7507.50
5	Concreting ration 1:3:6	Cmt	5.5	3935.10	21643.05
6	Red Bricks	No.	850	6.33	5376.25
7	Sand	Cum	2.5	255.30	638.25
8	Sundries	L.S.	-	885.50	885.50
				Total:	179707.05

Sheet
No. 5

Cost data for Clamps & Connectors bus connection at 22 KV SW/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
	a) T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
	b) DOG TO DOG or equivalent AAAC			642.38	0.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
				Total:	141674.25

Sheet
No. 6

Cost data for 100 KVA, 22/0.43 KV Station T/F for 22KV Switching stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Dist.transformer 100kva,22/0.4kv	No.	1	252975.00	252975.00
2	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
3	22KV A.B.Switch, 400 A	Nos.	1	17336.40	17336.40
4	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2622.00	2622.00
5	22 KV Pin Insulators with G.I. Pins	No.s	3	386.40	1159.20
6	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
7	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
8	Earthing Sets H.T	Nos.	3	461.70	1385.10
9	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
10	Coal	Kg.	200	17.25	3450.00
11	Salt	Kg.	200	8.05	1610.00
12	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
13	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
14	G.I.Nut Bolss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	346543.28

Sheet
No - 7

Cost data for Control cable for 22KV Switching Stn.(Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	5	382.95	1914.75
3	G.I Angles (50X50X6mm) for cable tray	Kg.	10	94.61	946.08
4	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	10542.63

Sheet
No - 8

Materials for 22 KV bus section at Switching Stn.(Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	AAAC 232 mm2	Rmt	200	159.25	31850.00
2	Disc Insulator 11 KV 70 KN	Nos.	24	310.01	7440.31
3	Strain Hardware for AAAC232 sq.mm.	Nos.	12	692.94	8315.33
4	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	48123.14

Sheet
No - 9

Cost data for Civil works for 22 KV Switching station (Outdoor)

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Foundations for structures and equipments for switching station	574997.4379
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
11	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
12	Const.of cable trench with covers in S/Yard. (As per table J)	356790
13	Construction of retaining wall. (As per table K)	950653.561
14	Rain Water Harvesting (As per Table L) Indoor	73475.012
15	Culvert (As per Table N) Indoor if required	179692.5
	Total=	8855101.858

Item Code No. 0502					
Cost data for 11 Kv Switching Station (Outdoor)					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	11 KV feeder bay as per sheet "A"	Nos.	12	612201.12	7346413.44
2	11 KV Isolators without EB (800 Amp.)	Set	3	31956.00	95868.00
3	11 KV PT	Set	1	10758.00	10758.00
4	100 KVA, 11/0.4 KV with Dist. Box as per Sht.No.6.	Set	1	226285.36	226285.36
5	Battery set 30 Volt, 100 AH with Battery charger	Set	1	82800.00	82800.00
6	Bus Gantry and Fabrication material , Clamps,Connectors, Control Cables, and Earthing (As per Sht. No.1,2,3,5,7 &8.	L.S.	1	405032.45	405032.45
7	AC Distribution Board 'B' type	Nos.	1	24325.00	24325.00
8	Fire Extinguisher with stand	LS	1	4830.00	4830.00
9	Switchyard lighting(As per Sht.no.4)	Nos.	1	179707.05	179707.05
Cost of material					8376019.30

1	Erection cost on material	5.00%	418801
2	Contractor supervision charges on material	5.00%	418801
Sub-Total			9213621
3	Contractor's Profit	5.00%	460681
Sub-Total			9674302
4	Transportation on material	4.00%	335041
5	T&P on material cost	1.00%	83760
6	Contingencies on material	2.00%	167520
Service Cost			20772528
Sub-Total			10260624
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	20521
Sub-Total			10281145
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	102811
9	Insurance	1.00%	102811
10	Turnkey Charges	0.00%	0
Total			10486768
9	Civil work as per sheet No.9		8855102
Total Cost of Estimate			19341870

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	15918625	10486776
Civil works	11286791	8855102
Total Cost of the Estimate	27205416	19341878

--
Sheet
No. A

11 KV FEEDER BAY

Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
2	11 KV Isolators with EB (800 A)	Set	1	36030.00	36030.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	31956.00	31956.00
4	11 KV VCB 400 A Outdoor	Set	1	119140.00	119140.00
5	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	12733.20	38199.60
6	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	59812.80	59812.80
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	308758.82	308758.82
8	Earthing as per Sheet (E)	L.S.	1	16845.70	16845.70

Cost of material

612201.12

11 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 11 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 11 KV CT	Kg.	315	69.93	22027.95
3	G.I. Gantry Structures	Kg.	1000	94.61	94608.00
4	G.I.Nut Bolts	Kg.	100	111.92	11191.50
5	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	165434.95
B) FOUNDATION(Civil works)					
1	Foundation for 11 kv Isolators	Cmt.	1.3	3935.10	5115.63
2	Foundation for 11 kv Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 11 kv Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
4	Foundation for 11 kv C.Ts	Cmt.	1.3	3935.10	5115.63
5	Foundation for 11 kv Breaker	Cmt.	1.3	3935.10	5115.63
6	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	35809.41
C) BUS-BAR MATERIAL					
1	AAAC 100 mm ²	Mtrs.	25	66.69	1667.31
2	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	12	971.75	11661.00
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	310.01	3720.15
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	6	369.91	2219.45
				Sub Total:	58328.54
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands, rerules and tape etc.	L.S.	-	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Sheet
No.1

Cost data for 11 KV Gantry M.S.structure/Steel Section for 11 KV Switching station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(4 Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.783	65475.00	51266.93
				Total:	246120.53

Sheet
No.2

Cost data for Earthing Work at 11 KV switching station.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	140	65.48	9166.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	2	7245.00	14490.00
3	Coal	Kg.	200	17.25	3450.00
4	Salt	Kg.	200	8.05	1610.00
5	RCC Ring work for earthing pits	No.	2	266.00	532.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	30134.00

Sheet
No.3

Cost data of Structure for 11 KV CT, PT H/G fuse set at 11 KV SW/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 11 KV PT	Kg.	315	69.93	22027.95
2	Structure for 11 KV H/G.	Kg.	155	69.93	10839.15
3	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	36224.55

Sheet
No.4

Cost data for Yard Lighting at 11 KV switching station (Outdoor).

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	10	7245.00	72450.00
	& 250w SV Lamp				
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	10	5537.25	55372.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	175	90.48	15834.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	75	100.10	7507.50
5	Concreting ration 1:3:6	Cmt	5.5	3935.10	21643.05
6	Red Bricks	No.	850	6.33	5376.25
7	Sand	Cum	2.5	255.30	638.25
8	Sundries	L.S.	-	885.50	885.50
				Total:	179707.05

Sheet
No. 5

Cost data for Clamps & Connectors bus connection at 11 KV SW/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
2	clamps for Isolator	Nos.	18	971.75	17491.50
3	Clamp for PT	Nos.	3	1667.50	5002.50
				Total:	41765.42

Sheet
No. 6

Cost data for 100 KVA, 11/0.43 KV Station T/F for 11 KV Switching stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
2	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
3	11KV A.B. Switch, 400 A	Nos.	1	11088.00	11088.00
4	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
5	11 KV Pin Insulators with G.I. Pins	No.s	3	108.66	325.98
6	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt.	10	444.15	4441.50
7	L.T.XLPE Armoured 3.5 Core cable 70 sq.mm.	Rmt.	50	269.28	13464.00
8	Earthing Sets H.T	Nos.	3	461.70	1385.10
9	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
10	Coal	Kg.	200	17.25	3450.00
11	Salt	Kg.	200	8.05	1610.00
12	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
13	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
14	G.I.Nut Bolts Washer & Misc Material	L.S	1	2781.00	2781.00
		Total:			226285.36

Sheet
No - 7

Cost data for Control cable for 11 KV Switching Stn.(Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	5	382.95	1914.75
3	G.I Angles (50X50X6mm) for cable tray	Kg.	10	94.61	946.08
4	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	10542.63

Sheet
No - 8

Materials for 11 KV bus section at Switching Stn.(Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	AAAC 232 mm2	Rmt	200	159.25	31850.00
2	Disc Insulator 11 KV 70 KN	Nos.	12	310.01	3720.15
3	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
4	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	40245.32

Sheet
No - 9

Cost data for Civil works for 11 KV Switching station (Outdoor)

Sr.No.	Particular	Amount
1	Land Development (As per table A)	315432
2	Control room (As per table B) outdoor	2713410.7
3	Store room of size 8.0m X 6.0 m (As per table C)	877164.86
4	Sanitary Water supply	0
5	Electrification (Lumsum)	130000
6	WBM Road (As per table D)	530784.8
7	Chain link fencing and Bar bed wire fencing (As per table E)	1794888.194
8	Metal Spreading (As per table F)	183768
9	Foundations for structures and equipments for switching station	574997.4379
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	69709.2
11	Borewell including pumpset and allied accessories. (As per table I)	104335.5933
12	Const.of cable trench with covers in S/Yard. (As per table J)	356790
13	Construction of retaining wall. (As per table K)	950653.561
14	Rain Water Harvesting (As per Table L) Indoor	73475.012
15	Culvert (As per Table N) Indoor if required	179692.5
	Total=	8855101.858

Item Code No. 0601					
Cost data for 33 KV FEEDER BAY (Outdoor)					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	33 KV Lightning Arrestors (Station type)	Set	1	11296.50	11296.50
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	1	60612.00	60612.00
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
5	CT 200-100/1-1 A , 33 KV	Nos.	3	28023.60	84070.80
6	C&R panel for 33 KV for feeder breaker	Nos.	1	61413.60	61413.60
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	417074.12	417074.12
8	Marshalling Box	No	1	5783.40	5783.40
9	Earthing as per Sheet (E)	L.S.	1	16845.70	16845.70

Cost of material			948673.73
1	Erection cost on material	5.00%	47434
2	Contractor supervision charges on material	5.00%	47434
	Sub-Total		1043541
3	Contractor's Profit	5.00%	52177
	Sub-Total		1095718
4	Transportation on material	4.00%	37947
5	T&P on material cost	1.00%	9487
6	Contingencies on material	2.00%	18973
	Service Cost		2352711
	Sub-Total		1162125
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	2324
	Sub-Total		1164450
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	11644
9	Insurance	1.00%	11644
10	Turnkey Charges	0.00%	0
	Total		1187739

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	1802954	1187740
Total Cost of the Estimate	1802954	1187740

33 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 33 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 33 KV CT	Kg.	315	69.93	22027.95
3	G.I. Gantry Structures	Kg.	1000	94.61	94608.00
4	G.I.Nut Bolts	Kg.	100	111.92	11191.50
5	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	165434.95
B) FOUNDATION(Civil works)					
1	Foundation for 33 kv Isolators with EB	Cmt.	1.3	3935.10	5115.63
2	Foundation for 33 kv Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 33 kv C.Ts	Cmt.	1.3	3935.10	5115.63
4	Foundation for 33 kv Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
5	Foundation for 33 kv Breaker	Cmt.	1.3	3935.10	5115.63
6	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	35809.41
C) BUS-BAR MATERIAL					
1	AAAC 232 mm2	Mtrs.	25	159.25	3981.25
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	18	971.75	17491.50
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	18	310.01	5580.23
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
				Sub Total:	166643.84
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands, rerules and tape etc.	L.S.	L.S.	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Item Code No. 0602					
22 KV FEEDER BAY					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
2	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
3	22 KV Isolators without EB (800 Amp.)	Set	1	42816.00	42816.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	206540.00	206540.00
5	CT 200-100/1-1 A , 22 KV	Nos.	3	28520.40	85561.20
6	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	91000.80	91000.80
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	409383.55	409383.55
8	Marshalling Box	No	1	5783.40	5783.40
9	Earthing as per Sheet (E)	L.S.	1	16845.70	16845.70
Cost of material					917640.25

1	Erection cost on material	5.00%	45882
2	Contractor supervision charges on material	5.00%	45882
Sub-Total			1009404
3	Contractor's Profit	5.00%	50470
Sub-Total			1059874
4	Transportation on material	4.00%	36706
5	T&P on material cost	1.00%	9176
6	Contingencies on material	2.00%	18353
Service Cost			2275748
Sub-Total			1124109
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2248
Sub-Total			1126358
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	11264
9	Insurance	1.00%	11264
10	Turnkey Charges	0.00%	0

Total **1148885**

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	1743975	1148886
Total Cost of the Estimate	1743975	1148886

22 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 22 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 22 KV CT	Kg.	315	69.93	22027.95
3	G.I. Gantry Structures	Kg.	1000	94.61	94608.00
4	G.I.Nut Bolts	Kg.	100	111.92	11191.50
5	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	165434.95
B) FOUNDATION(Civil works)					
1	Foundation for 22 kv Isolators	Cmt.	1.3	3935.10	5115.63
2	Foundation for 22 kv Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 22 kv Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
4	Foundation for 22 kv C.Ts	Cmt.	1.3	3935.10	5115.63
5	Foundation for 22 kv Breaker	Cmt.	1.3	3935.10	5115.63
6	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	35809.41
C) BUS-BAR MATERIAL					
1	AAAC 232 mm2	Mtrs.	25	159.25	3981.25
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Noa	30	3854.80	115644.00
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	12	971.75	11661.00
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	310.01	3720.15
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
				Sub Total:	158953.27
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands,erules and tape etc.	L.S.	-	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Item Code 0603					
11 KV FEEDER BAY					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
2	11 KV Isolators with EB (800 A)	Set	1	36030.00	36030.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	31956.00	31956.00
4	11 KV VCB 400 A Outdoor	Set	1	119140.00	119140.00
5	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	12733.20	38199.60
6	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	59812.80	59812.80
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	409383.55	409383.55
8	Marshalling Box	No	1	5783.40	5783.40
9	Earthing as per Sheet (E)	L.S.	1	16845.70	16845.70

Cost of material **718609.25**

1	Erection cost on material	5.00%	35930
2	Contractor supervision charges on material	5.00%	35930
	Sub-Total		790470
3	Contractor's Profit	5.00%	39524
	Sub-Total		829994
4	Transportation on material	4.00%	28744
5	T&P on material cost	1.00%	7186
6	Contingencies on material	2.00%	14372
	Service Cost		1782151
	Sub-Total		880296
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1761
	Sub-Total		882057
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	8821
9	Insurance	1.00%	8821
10	Turnkey Charges	0.00%	0

Total **899698**

Particulars	DPR Amount	Tender/ Estimate Amount(Rural)
	90.05%	25.200%
Cost with overheads on Material	1365717	899699
Total Cost of the Estimate	1365717	899699

11 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 11 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 11 KV CT	Kg.	315	69.93	22027.95
3	G.I. Gantry Structures	Kg.	1000	94.61	94608.00
4	G.I.Nut Bolts	Kg.	100	111.92	11191.50
5	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	165434.95
B) FOUNDATION(Civil works)					
1	Foundation for 11 kV Isolators	Cmt.	1.3	3935.10	5115.63
2	Foundation for 11 kV Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 11 kV Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
4	Foundation for 11 kV C.Ts	Cmt.	1.3	3935.10	5115.63
5	Foundation for 11 kV Breaker	Cmt.	1.3	3935.10	5115.63
6	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	35809.41
C) BUS-BAR MATERIAL					
1	AAAC 232 mm2	Mtrs.	25	159.25	3981.25
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	12	971.75	11661.00
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	310.01	3720.15
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
				Sub Total:	158953.27
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands, rerules and tape etc.	L.S.	-	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Item Code No. 0601A					
Cost data for 33 KV FEEDER BAY (Outdoor) without Gantry structure					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	33 KV Lightning Arrestors (Station type)	Set	1	11296.50	11296.50
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	1	60612.00	60612.00
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	225349.60	225349.60
5	CT 200-100/1-1 A , 33 KV	Nos.	3	28023.60	84070.80
6	C&R panel for 33 KV for feeder breaker	Nos.	1	61413.60	61413.60
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	316635.62	316635.62
8	Marshalling Box	No	1	5783.40	5783.40
9	Earthing as per Sheet (E)	L.S.	1	16845.70	16845.70
Cost of material					848235.23
1	Erection cost on material		5.00%		42412
2	Contractor supervision charges on material		5.00%		42412
Sub-Total					933059
3	Contractor's Profit		5.00%		46653
Sub-Total					979712
4	Transportation on material		4.00%		33929
5	T&P on material cost		1.00%		8482
6	Contingencies on material		2.00%		16965
Service Cost					2103623
Sub-Total					1039088
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		2078
Sub-Total					1041166
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		10412
9	Insurance		1.00%		10412
10	Turnkey Charges		0.00%		0
Total					1061990

Particulars	More than Rs. 40 Crs	
	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	1612071	1061991
Total Cost of the Estimate	1612071	1061991

33 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 33 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 33 KV CT	Kg.	315	69.93	22027.95
3	G.I.Nut Bolts	Kg.	100	111.92	11191.50
4	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	70826.95
B) FOUNDATION(Civil works)					
1	Foundation for 33 kV Isolators with EB	Cmt.	1.3	3935.10	5115.63
2	Foundation for 33 kV Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 33 kV C.Ts	Cmt.	1.3	3935.10	5115.63
4	Foundation for 33 kV Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
5	Foundation for 33 kV Breaker	Cmt.	1.3	3935.10	5115.63
6	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	35809.41
C) BUS-BAR MATERIAL					
1	AAAC 232 mm ²	Mtrs.	25	159.25	3981.25
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	12	971.75	11661.00
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	18	310.01	5580.23
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
				Sub Total:	160813.34
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands, rerules and tape etc.	L.S.	L.S.	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Item Code No. 0602A					
Cost data for 22 KV FEEDER BAY (Outdoor) without Gantry structure					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
2	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
3	22 KV Isolators without EB (800 Amp.)	Set	1	42816.00	42816.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	206540.00	206540.00
5	CT 200-100/1-1 A , 22 KV	Nos.	3	28520.40	85561.20
6	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	91000.80	91000.80
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	314775.55	314775.55
8	Marshalling Box	No	1	5783.40	5783.40
9	Earthing as per Sheet (E)	L.S.	1	16845.70	16845.70

Cost of material				823032.25
1	Erection cost on material	5.00%		41152
2	Contractor supervision charges on material	5.00%		41152
Sub-Total				905335
3	Contractor's Profit	5.00%		45267
Sub-Total				950602
4	Transportation on material	4.00%		32921
5	T&P on material cost	1.00%		8230
6	Contingencies on material	2.00%		16461
Service Cost				2041120
Sub-Total				1008215
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		2016
Sub-Total				1010231
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		10102
9	Insurance	1.00%		10102
10	Turnkey Charges	0.00%		0
Total				1030436

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	1564173	1030436
Total Cost of the Estimate	1564173	1030436

22 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 22 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 22 KV CT	Kg.	315	69.93	22027.95
3	G.I.Nut Bolts	Kg.	100	111.92	11191.50
4	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	70826.95
B) FOUNDATION(Civil works)					
1	Foundation for 22 kv Isolators	Cmt.	1.3	3935.10	5115.63
2	Foundation for 22 kv Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 22 kv Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
4	Foundation for 22 kv C.Ts	Cmt.	1.3	3935.10	5115.63
5	Foundation for 22 kv Breaker	Cmt.	1.3	3935.10	5115.63
6	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	35809.41
C) BUS-BAR MATERIAL					
1	AAAC 232 mm2	Mtrs.	25	159.25	3981.25
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Noa	30	3854.80	115644.00
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	12	971.75	11661.00
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	310.01	3720.15
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
				Sub Total:	158953.27
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands,erules and tape etc.	L.S.	-	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Item Code 0603A					
Cost data for 11 KV FEEDER BAY (Outdoor) without Gantry structure					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
2	11 KV Isolators with EB (800 A)	Set	1	36030.00	36030.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	31956.00	31956.00
4	11 KV VCB 400 A Outdoor	Set	1	119140.00	119140.00
5	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	12733.20	38199.60
6	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	59812.80	59812.80
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	314775.55	314775.55
8	Marshalling Box	No	1	5783.40	5783.40
9	Earthing as per Sheet (E)	L.S.	1	16845.70	16845.70

Cost of material **624001.25**

1	Erection cost on material	5.00%	31200
2	Contractor supervision charges on material	5.00%	31200
	Sub-Total		686401
3	Contractor's Profit	5.00%	34320
	Sub-Total		720721
4	Transportation on material	4.00%	24960
5	T&P on material cost	1.00%	6240
6	Contingencies on material	2.00%	12480
	Service Cost		1547523
	Sub-Total		764402
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1529
	Sub-Total		765930
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	7659
9	Insurance	1.00%	7659
10	Turnkey Charges	0.00%	0

Total **781249**

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	1185914	781250
Total Cost of the Estimate	1185914	781250

11 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 11 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 11 KV CT	Kg.	315	69.93	22027.95
3	G.I.Nut Bolts	Kg.	100	111.92	11191.50
4	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	70826.95
B) FOUNDATION(Civil works)					
1	Foundation for 11 kV Isolators	Cmt.	1.3	3935.10	5115.63
2	Foundation for 11 kV Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 11 kV Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
4	Foundation for 11 kV C.Ts	Cmt.	1.3	3935.10	5115.63
5	Foundation for 11 kV Breaker	Cmt.	1.3	3935.10	5115.63
6	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	35809.41
C) BUS-BAR MATERIAL					
1	AAAC 232 mm2	Mtrs.	25	159.25	3981.25
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	12	971.75	11661.00
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	310.01	3720.15
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
				Sub Total:	158953.27
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands, rerules and tape etc.	L.S.	-	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Item Code 0601B					
33 KV FEEDER BAY With Gantry structure & PT					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
1	33 KV Lightning Arrestors (Station type)	Set	1	11296.50	11296.50
2	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
3	33 KV Isolators without EB (800 Amp.)	Set	2	60612.00	121224.00
4	33 KV VCB complete 1600 Amp (O.D.)	No	1	225349.60	225349.60
5	33 KV P.T.	No	3	22651.20	67953.60
6	CT 200-100/1-1 A , 33 KV	No	3	28023.60	84070.80
7	C&R panel for 33 KV for feeder breaker	Set	1	61413.60	61413.60
8	Marshalling Box	No	1	5783.40	5783.40
9	Structure and foundation cables, clamps, painting etc. as per Table (A+B+C+D+F)	LS	1	438387.20	438387.20
10	Earthing as per Table (E)	LS	1	16845.70	16845.70
Cost of material					1098552.41

1	Erection cost on material	5.00%	54928
2	Contractor supervision charges on material	5.00%	54928
Sub-Total			1208408
3	Contractor's Profit	5.00%	60420
Sub-Total			1268828
4	Transportation on material	4.00%	43942
5	T&P on material cost	1.00%	10986
6	Contingencies on material	2.00%	21971
Service Cost			2724410
Sub-Total			1345727
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	2691
Sub-Total			1348418
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	13484
9	Insurance	1.00%	13484
10	Turnkey Charges	0.00%	0
Total			1375387

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	2087799	1375388
Total Cost of the Estimate	2087799	1375388

11 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 33 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 33 KV CT	Kg.	315	69.93	22027.95
3	Structure for 33 KV PT	Kg.	315	69.93	22027.95
4	G.I. Gantry Structures	Kg.	1000	94.61	94608.00
5	G.I.Nut Bolts	Kg.	100	111.92	11191.50
6	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	187462.90
B) FOUNDATION(Civil works)					
1	Foundation for 33 kV Isolators with EB	Cmt.	1.3	3935.10	5115.63
2	Foundation for 33 kV Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 33 kV C.Ts	Cmt.	1.3	3935.10	5115.63
4	Foundation for 33 kV P.Ts	Cmt.	1.3	3935.10	5115.63
5	Foundation for 33 kV Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
6	Foundation for 33 kV Breaker	Cmt.	1.3	3935.10	5115.63
7	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	40925.04
C) BUS-BAR MATERIAL					
1	AAAC 232 mm2	Mtrs.	25	159.25	3981.25
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	12	971.75	11661.00
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	18	310.01	5580.23
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
				Sub Total:	160813.34
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands, rerules and tape etc.	L.S.	L.S.	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Item Code No. 0602B					
22 KV FEEDER BAY with Gantry structure & PT					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
2	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
3	22 KV Isolators without EB (800 Amp.)	Set	1	42816.00	42816.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	206540.00	206540.00
5	22 KV P.T.	No	3	21426.00	64278.00
6	CT 200-100/1-1 A , 22 KV	Nos.	3	28520.40	85561.20
7	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	91000.80	91000.80
8	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	409383.55	409383.55
9	Marshalling Box	No	1	5783.40	5783.40
10	Earthing as per Sheet (E)	L.S.	1	16845.70	16845.70
Cost of material					981918.25

1	Erection cost on material	5.00%			49096
2	Contractor supervision charges on material	5.00%			49096
Sub-Total					1080110
3	Contractor's Profit	5.00%			54006
Sub-Total					1134116
4	Transportation on material	4.00%			39277
5	T&P on material cost	1.00%			9819
6	Contingencies on material	2.00%			19638
Service Cost					2435157
Sub-Total					1202850
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%			2406
Sub-Total					1205256
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			12053
9	Insurance	1.00%			12053
10	Turnkey Charges	0.00%			0
Total					1229361

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	1866136	1229362
Total Cost of the Estimate	1866136	1229362

22 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 22 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 22 KV CT	Kg.	315	69.93	22027.95
3	G.I. Gantry Structures	Kg.	1000	94.61	94608.00
4	G.I.Nut Bolts	Kg.	100	111.92	11191.50
5	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	165434.95
B) FOUNDATION(Civil works)					
1	Foundation for 22 kv Isolators	Cmt.	1.3	3935.10	5115.63
2	Foundation for 22 kv Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 22 kv Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
4	Foundation for 22 kv C.Ts	Cmt.	1.3	3935.10	5115.63
5	Foundation for 22 kv Breaker	Cmt.	1.3	3935.10	5115.63
6	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	35809.41
C) BUS-BAR MATERIAL					
1	AAAC 232 mm2	Mtrs.	25	159.25	3981.25
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Noa	30	3854.80	115644.00
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	12	971.75	11661.00
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	310.01	3720.15
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
				Sub Total:	158953.27
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands,erules and tape etc.	L.S.	-	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Item Code 0603B					
11 KV FEEDER BAY with Gantry structure & PT					
Sr.No.	Description of Material	Unit	Qty.	Rate	Amt.
1	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
2	11 KV Isolators with EB (800 A)	Set	1	36030.00	36030.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	31956.00	31956.00
4	11 KV VCB 400 A Outdoor	Set	1	119140.00	119140.00
5	11 KV PT	No	3	10758.00	32274.00
6	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	12733.20	38199.60
7	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	59812.80	59812.80
8	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	436527.13	436527.13
9	Marshalling Box	No	1	5783.40	5783.40
10	Earthing as per Sheet (E)	L.S.	1	16845.70	16845.70
Cost of material					778026.83

1	Erection cost on material	5.00%		38901
2	Contractor supervision charges on material	5.00%		38901
	Sub-Total			855830
3	Contractor's Profit	5.00%		42791
	Sub-Total			898621
4	Transportation on material	4.00%		31121
5	T&P on material cost	1.00%		7780
6	Contingencies on material	2.00%		15561
	Service Cost			1929507
	Sub-Total			953083
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%		1906
	Sub-Total			954989
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		9550
9	Insurance	1.00%		9550
10	Turnkey Charges	0.00%		0
	Total			974089

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	1478640	974090
Total Cost of the Estimate	1478640	974090

11 KV Feeder bay (Structure, Foundation, Bus bar material, Cable , Earthing Materials & Painting)

Sr.No.	Description of Material	Unit	Qty.	Rate	Amount
A) STRUCTURE					
1	Structure for 11 KV L.A.	Kg.	250	69.93	17482.50
2	Structure for 11 KV CT	Kg.	315	69.93	22027.95
3	Structure for 11 KV PT	Kg.	315	69.93	22027.95
4	G.I. Gantry Structures	Kg.	1000	94.61	94608.00
5	G.I.Nut Bolts	Kg.	100	111.92	11191.50
6	Welding Rods	Nos.	5000	4.03	20125.00
				Sub Total	187462.90
B) FOUNDATION(Civil works)					
1	Foundation for 11 kv Isolators	Cmt.	1.3	3935.10	5115.63
2	Foundation for 11 kv Isolators without EB	Cmt.	1.3	3935.10	5115.63
3	Foundation for 11 kv Lightning Arrestor	Cmt.	1.3	3935.10	5115.63
4	Foundation for 11 kv C.Ts	Cmt.	1.3	3935.10	5115.63
5	Foundation for 11 kv P.Ts	Cmt.	1.3	3935.10	5115.63
6	Foundation for 11 kv Breaker	Cmt.	1.3	3935.10	5115.63
7	Foundation for Gantry Structures	Cmt.	2.6	3935.10	10231.26
				Sub Total:	40925.04
C) BUS-BAR MATERIAL					
1	AAAC 232 mm2	Mtrs.	25	159.25	3981.25
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
3	Breaker Clamps	Nos.	6	1941.20	11647.20
4	clamps for Isolator	Nos.	12	971.75	11661.00
5	Clamps for CTs	Nos.	6	1357.00	8142.00
6	Disc Insulator 11 KV 70 KN	Nos.	12	310.01	3720.15
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	692.94	4157.66
				Sub Total:	158953.27
D) CONTROL CABLE					
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	430.81	21540.35
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	71.64	2865.72
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	97.21	4860.70
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	382.95	3829.50
3	Cable Glands, rerules and tape etc.	L.S.	-	602.60	602.60
4	Angle for fixing trays 50x50x6mm	Kg.	20	69.93	1398.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	143.00	11440.00
6	Sand	Cmt.	4	255.30	1021.20
				Sub Total:	47558.67
E) EARTHING WORK					
1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
				Sub Total:	16845.70
F) PAINTING OF STRUCTURE					
1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
				Sub Total:	1627.25

Item Code 0601D					
11 KV FEEDER BAY Without main bus bar Extn. & with take off structure					
Sr.No	Description	Unit	Quantity	Rate	Total Quantity
1	11 KV 250 MVA O.D. Switch gear with one I/C+ one O/G	Set	1	492135.60	492135.60
2	Earthing as per Table No 1	No	1	16845.70	16845.70
3	11 KV Takeoff Structure as per Table No 2	No	1	266454.16	266454.16
4	Painting of structure as per Table No 4	No	1	1627.25	1627.25
TOTAL COST OF MATERIAL					777062.71

1	Erection cost on material	5.00%		38853
2	Contractor supervision charges on material	5.00%		38853
Sub-Total				
3	Contractor's Profit	5.00%		42738
Sub-Total				
4	Transportation on material	4.00%		31083
5	T&P on material cost	1.00%		7771
6	Contingencies on material	2.00%		15541
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		1904
Sub-Total				
953806				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		9538
9	Insurance	1.00%		9538
10	Turnkey Charges	0.00%		0
Total				
972882				

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	1476808	972883
Total Cost of the Estimate	1476808	972883

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Table No 1

EARTHING WORK

1	M.S. Flats(50 X 10mm)	Kg.	50	65.48	3273.75
2	M.S.Flat 25x6 mm	Kg.	20	65.48	1309.50
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	7245.00	7245.00
4	Coal	Kg.	100	17.25	1725.00
5	Salt	Kg.	100	8.05	805.00
6	Welding Rods	Nos.	50	4.03	201.25
7	Hiring of Welding machine	Nos.	1	273.70	273.70
8	Brick & Masonary works for earthing pit	Nos.	1	2012.50	2012.50
Sub Total:					16845.70

Table No. 2

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 5 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	12492.90	74957.40
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
8	Earthing Sets H.T	Sets	3	461.70	1385.10
9	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
10	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
11	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
12	G.I.Nut Bolts	Kg.	50	111.92	5595.75
13	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
14	Miscellaneous material	LS	1	517.50	517.50
Total:					266454.16

Table No. 4

PAINTING OF STRUCTURE

1	Red Oxide Paint for 2 coats	Ltrs.	10	97.75	977.50
2	Aluminium Paint for 1 coat	Ltrs.	5	129.95	649.75
Sub Total:					1627.25

Item Code No. 0701					
Cost data for 1 Km. 33 KV S/C Line with 100 mm ² AAAC (Suspension type) & RSJ 152 X 152 mm 12 mtr. Long.					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 152x152, 12 m long	No.	14.00	26869.05	376166.70
2	RSJ 152x152, 11 m long	No.	2.00	24630.75	49261.50
3	MS Channel 100x50x6 mm	Kg.	495.00	69.93	34615.35
4	M.S.Channel 75x40x6 mm	Kg.	91.00	69.93	6363.63
5	MS angle 50x50x6 mm	Kg.	203.00	69.93	14195.79
6	MS Flat 75x10 mm	Kg.	89.00	65.48	5827.28
7	G.I.Nut Bolts	Kg.	80.00	111.92	8953.20
8	Disc Insulator 11 KV 70 KN	No.	153.00	310.01	47431.96
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	33.00	258.32	8524.71
10	AAAC 100 mm ²	Mtrs.	3150.00	66.69	210080.87
11	H.T.Stay Set	No.	6.00	807.30	4843.80
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	71.81	4308.75
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	71.75	9327.50
14	Sieve Joints	No.	3.00	132.25	396.75
15	Danger Board in yard.	No.	14.00	57.50	805.00
16	Earthing Sets H.T	No.	14.00	461.70	6463.80
17	Concreting ration 1:3:6	cmt.	25.00	3935.10	98377.50
18	G.I.Barbed Wire 'A' type.	Kg.	60.00	80.34	4820.25
19	Black bituminous paint	Ltr.	6.00	97.75	586.50
20	Red Oxide Paint for 2 coats	Ltr.	20.00	97.75	1955.00
21	Aluminium Paint for 1 coat	Ltr.	9.00	129.95	1169.55
22	Sundries	LS	LS	885.50	885.50
23	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	642.38	11562.85
Cost of material					906923.73
1	Erection cost on material		15.00%		136039
2	Contractor supervision charges on material		5.00%		45346
Sub-Total					1088308
3	Contractor's Profit		5.00%		54415
Sub-Total					1142724
4	Transportation on material		4.00%		36277
5	T&P on material cost		1.00%		9069
6	Contingencies on material		2.00%		18138
Service Cost					2530317
Sub-Total					1206209
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		2412
Sub-Total					1208621
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		12086
9	Insurance		1.00%		12086
10	Turnkey Charges		0.00%		0
Total					1232793

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	105.71%
Total Cost of the Estimate	1865633	1232781

Assumption-

- 1) 3- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°
- 3) 2 Strut support
- 4) 4 span guarding.
- 5) Average span length - 75 mtrs.

Item Code No. 0702					
Cost data for 33 KV S/C Line Suspension type with 100 mm ² AAAC lines on 152 X 152 mm 13 mtr. RSJ					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 152x152, 13 m long	No.	14.00	29108.70	407521.80
2	RSJ 152x152, 11 m long	No.	2.00	24630.75	49261.50
3	MS Channel 100x50x6 mm	Kg.	495.00	69.93	34615.35
4	M.S.Channel 75x40x6 mm	Kg.	91.00	69.93	6363.63
5	MS angle 50x50x6 mm	Kg.	203.00	69.93	14195.79
6	MS Flat 75x10 mm	Kg.	89.00	65.48	5827.28
7	G.I.Nut Bolts	Kg.	80.00	111.92	8953.20
8	Disc Insulator 11 KV 70 KN	No.	153.00	310.01	47431.96
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	33.00	258.32	8524.71
10	Strain Hardware for Dog 0.1 or Equ.AAAC.	No.	18.00	369.91	6658.36
11	AAAC 100 mm ²	Mtrs.	3150.00	66.69	210080.87
12	H.T.Stay Set	No.	6.00	807.30	4843.80
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	71.81	4308.75
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	71.75	9327.50
15	Sleve Joints	No.	3.00	132.25	396.75
16	Danger Board in yard.	No.	14.00	57.50	805.00
17	Earthing Sets H.T	No.	14.00	461.70	6463.80
18	Concreting ration 1:3:6	cmt.	25.00	3935.10	98377.50
19	G.I.Barbed Wire 'A' type.	Kg.	60.00	80.34	4820.25
20	Black bituminous paint	Ltr.	6.00	97.75	586.50
21	Red Oxide Paint for 2 coats	Ltr.	20.00	97.75	1955.00
22	Aluminium Paint for 1 coat	Ltr.	9.00	129.95	1169.55
23	Sundries	LS	LS	885.50	885.50
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	642.38	11562.85
Cost of material					944937.19

1	Erection cost on material	15.00%	141741
2	Contractor supervision charges on material	5.00%	47247
Sub-Total			1133925
3	Contractor's Profit	5.00%	56696
Sub-Total			1190621
4	Transportation on material	4.00%	37797
5	T&P on material cost	1.00%	9449
6	Contingencies on material	2.00%	18899
Service Cost			2636375
Sub-Total			1256766
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2514
Sub-Total			1259280
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	12593
9	Insurance	1.00%	12593
10	Turnkey Charges	0.00%	0
Total			1284466

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	105.71%
Total Cost of the Estimate	1943830	1284453

Assumption-

- 1) 3- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°
- 3) 2 Strut support
- 4) 4 span guarding.
- 5) Average span length - 75 mtrs.

Item Code No. 0703					
Cost data for 33 KV S/C Line Pin type with 100 mm ² AAAC lines on 152 X 152 mm 11 mtr. RSJ					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 152x152, 11 m long	No.	17.00	24630.75	418722.75
2	RSJ 116x100, 10 m long	No.	2.00	13882.05	27764.10
3	MS Channel 100x50x6 mm	Kg.	132.00	69.93	9230.76
4	M.S.Channel 75x40x6 mm	Kg.	91.00	69.93	6363.63
5	33 KV Top Fitting	No.	14.00	515.70	7219.80
6	MS angle 50x50x6 mm	Kg.	54.00	69.93	3776.22
7	M.S. Flats(50 X 10mm)	Kg.	36.00	65.48	2357.10
8	33 kV Pin Insulators with G.I. Pins	No.	42.00	462.50	19425.04
9	Disc Insulator 11 KV 70 KN	No.	54.00	310.01	16740.69
10	G.I.Nut Bolts	Kg.	80.00	111.92	8953.20
11	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	18.00	369.91	6658.36
12	AAAC 100 mm ²	Mtrs.	3150.00	66.69	210080.87
13	H.T.Stay Set	No.	6.00	807.30	4843.80
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	71.81	4308.75
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	71.75	9327.50
16	Sleeve Joints	No.	3.00	132.25	396.75
17	Danger Board in yard.	No.	17.00	57.50	977.50
18	Earthing Sets H.T	No.	17.00	461.70	7848.90
19	Concreting ration 1:3:6	cmt.	17.50	3935.10	68864.25
20	G.I.Barbed Wire 'A' type.	Kg.	80.00	80.34	6427.00
21	Black bituminous paint	Ltr.	6.00	97.75	586.50
22	Red Oxide Paint for 2 coats	Ltr.	20.00	97.75	1955.00
23	Aluminium Paint for 1 coat	Ltr.	9.00	129.95	1169.55
24	Sundries	LS	LS	885.50	885.50
25	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	642.38	11562.85
Cost of material					856446.37

1	Erection cost on material	15.00%	128467	
2	Contractor supervision charges on material	5.00%	42822	
Sub-Total			1027736	
3	Contractor's Profit	5.00%	51387	
Sub-Total			1079122	
4	Transportation on material	4.00%	34258	
5	T&P on material cost	1.00%	8564	
6	Contingencies on material	2.00%	17129	
Service Cost			2389485	
Sub-Total			1139074	
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	2278	
Sub-Total			1141352	
Labour Cess (on Total Works Cost instead of only Material Cost)				
8		1.00%	11414	
9	Insurance	1.00%	11414	
10	Turnkey Charges	0.00%	0	
Total				1164179

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	1761796
Total Cost of the Estimate	1761796	1164168

Assumption-

- 1) 3- cut points (including 1- rightangle cut point in 1 km.)
- 2) 1- line deviations upto 60°
- 3) 2-Strut support
- 4) Average span length - 60 mtrs.
- 5) concreting for all poles, struts & stages. (1:3:6)

Item Code No. 0704					
Cost data for 33 KV S/C Line Pin type with 100 mm ² AAAC lines on 100 X 116 mm 10 mtr. RSJ Poles					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 10 m long	No.	17.00	13882.05	235994.85
2	RSJ 116x100, 9 m long	No.	2.00	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	132.00	69.93	9230.76
4	M.S.Channel 75x40x6 mm	Kg.	91.00	69.93	6363.63
5	33 KV V Cross Arms	No.	14.00	1223.10	17123.40
6	33 KV Top Fitting	No.	14.00	515.70	7219.80
7	MS angle 50x50x6 mm	Kg.	54.00	69.93	3776.22
8	M.S. Flats(50 X 10mm)	Kg.	36.00	65.48	2357.10
9	33 kV Pin Insulators with G.I. Pins	No.	42.00	462.50	19425.04
10	G.I.Nut Bolts	Kg.	80.00	111.92	8953.20
11	Disc Insulator 11 KV 70 KN	No.	54.00	310.01	16740.69
12	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	18.00	369.91	6658.36
13	AAAC 100 mm ²	Rmt	3150.00	66.69	210080.87
14	H.T.Stay Set	No.	6.00	807.30	4843.80
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	71.81	4308.75
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	71.75	9327.50
17	Sleeve Joints	No.	3.00	132.25	396.75
18	Danger Board in yard.	No.	17.00	57.50	977.50
19	Earthing Sets H.T	No.	17.00	461.70	7848.90
20	Concreting ration 1:3:6	cmt.	17.50	3935.10	68864.25
21	G.I.Barbed Wire 'A' type.	Kg.	80.00	80.34	6427.00
22	Black bituminous paint	Ltr.	6.00	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20.00	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9.00	129.95	1169.55
25	Sundries	LS	LS	885.50	885.50
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	642.38	11562.85

Cost of material **688063.57**

1	Erection cost on material	15.00%	103210
2	Contractor supervision charges on material	5.00%	34403
Sub-Total			825676
3	Contractor's Profit	5.00%	41284
Sub-Total			866960
4	Transportation on material	4.00%	27523
5	T&P on material cost	1.00%	6881
6	Contingencies on material	2.00%	13761
Service Cost			1919697
Sub-Total			915125
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1830
Sub-Total			916955
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9170
9	Insurance	1.00%	9170
10	Turnkey Charges	0.00%	0

Total **935294**

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	1415416
Total Cost of the Estimate	1415416	935285

Assumption-

- 1) 3- cut points (including 1- rightangle cut point in 1 km.)
- 2) 1- line deviations upto 60°
- 3) 2- Strut support
- 4) Average span length - 60 mtrs.
- 5) concreting for all poles, struts & stages. (1:3:6)

Item Code No. 0706					
33 kV Single Circuit with 100 sqmm Express/Highway Crossing on 152 X 152 RSJ 13 mtr Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
3	MS Channel 100x50x6 mm	Kg.	70	69.93	4895.10
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	AAAC 100 mm2	mtr.	100	66.69	6669.23
7	33 kV Pin Insulators with G.I. Pins	NO.	6	462.50	2775.01
8	Disc Insulator 11 KV 45 KN	NO.	36	280.60	10101.60
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	369.91	4438.91
10	H.T.Stay Set	No	4	807.30	3229.20
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	71.81	1436.25
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Danger Board in yard.	No.	4	57.50	230.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
15	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
16	Black Bituminous Paint	Ltr.	2	97.75	195.50
17	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
18	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
19	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
20	Sundries	L.S.	1	885.50	885.50
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	642.38	7708.57
Cost of material					189202.71

1	Erection cost on material	15.00%	28380
2	Contractor supervision charges on material	5.00%	9460
Sub-Total			227043
3	Contractor's Profit	5.00%	11352
Sub-Total			238395
4	Transportation on material	4.00%	7568
5	T&P on material cost	1.00%	1892
6	Contingencies on material	2.00%	3784
Service Cost			527876
Sub-Total			251640
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	503
Sub-Total			252143
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2521
9	Insurance	1.00%	2521
10	Turnkey Charges	0.00%	0
Total			257186

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	389209	257183
Total Cost of the Estimate	389209	257183

Item Code No. 0707					
33 kV Single Circuit road crossing with 100sqmm on 100 X 116mm,10 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
	RSJ 116x100, 10 m long	No.	4	13882.05	55528.20
	MS Channel 100x50x6 mm	Kg.	70	69.93	4895.10
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	AAAC 100 mm ²	m	100	66.69	6669.23
8	33 kV Pin Insulators with G.I. Pins	NO.	6	462.50	2775.01
11	Disc Insulator 11 KV 45 KN	NO.	36	280.60	10101.60
12	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	369.91	4438.91
13	H.T.Stay Set	No	4	807.30	3229.20
14	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	71.81	1436.25
15	Earthing Sets H.T	No.	4	461.70	1846.80
16	Danger Board in yard.	No.	4	57.50	230.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
19	Black Bituminous Paint	Ltr.	2	97.75	195.50
20	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
21	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
22	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
23	Sundries	L.S.	1	885.50	885.50
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	642.38	7708.57
Cost of material					124100.31

1	Erection cost on material	15.00%	18615
2	Contractor supervision charges on material	5.00%	6205
	Sub-Total		148920
3	Contractor's Profit	5.00%	7446
	Sub-Total		156366
4	Transportation on material	4.00%	4964
5	T&P on material cost	1.00%	1241
6	Contingencies on material	2.00%	2482
	Service Cost		346240
	Sub-Total		165053
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	330
	Sub-Total		165384
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1654
9	Insurance	1.00%	1654
10	Turnkey Charges	0.00%	0

Particulars	More than Rs. 40 Crs	
	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	255287
Total Cost of the Estimate	255287	168690

Item Code 0708					
Cost Data for laying of 1 Km. 33 KV 3 C 300 mm 2 XLPE under ground Cable					
Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	1000.00	2136.51	2136510.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	RCC Tiles (0.6 x 0.5) Mtrs.	No.	940.00	135.20	127088.00
4	33 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No.	2.00	36900.00	73800.00
5	33 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	2.00	19028.00	38056.00
6	Sand	Cmt.	250.00	255.30	63825.00
7	Misc. for XLPE U/G Cable	LS	1.00	1150.00	1150.00
Cost of material					2457589.00

1	Erection cost on material	15.00%	368638
2	Contractor supervision charges on material	5.00%	122879
Sub-Total			2949107
3	Contractor's Profit	5.00%	147455
Sub-Total			3096562
4	Transportation on material	4.00%	98304
5	T&P on material cost	1.00%	24576
6	Contingencies on material	2.00%	49152
Service Cost			6856673
Sub-Total			3268593
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	6537
Sub-Total			3275131

8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	32751
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9	Insurance	1.00%	32751
10	Turnkey Charges	0.00%	0

Total **3340633**

Particulars	More than Rs. 40 Crs	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	105.71%	35.930%
Total Cost of the Estimate	5055506	3340601

Item Code No. 0709					
33 kV 3 X 300 sqmm XLPE Underground Cable for Railway line crossing					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
7	33 kV Pin Insulators with G.I. Pins	NO.	6	462.50	2775.01
8	AAAC 100 mm ²	Rmt	100	66.69	6669.23
9	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	160.00	2136.51	341841.60
10	R.C.C. Pipe 150 mm 2 M	No	35.00	572.00	20020.00
11	Black Bituminous Paint	Ltr.	2	97.75	195.50
12	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
13	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
14	33 kV Heat shrink Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	4.00	19028.00	76112.00
15	Sand	Cmt	500.00	255.30	127650.00
16	Misc. for XLPE U/G Cable	LS	2.00	1150.00	2300.00
Cost of material					841859.10

1	Erection cost on material	15.00%	126279
2	Contractor supervision charges on material	5.00%	42093
Sub-Total			1010231
3	Contractor's Profit	5.00%	50512
Sub-Total			1060742
4	Transportation on material	4.00%	33674
5	T&P on material cost	1.00%	8419
6	Contingencies on material	2.00%	16837
Service Cost			2348787
Sub-Total			1119673
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2239
Sub-Total			1121912
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	11219
9	Insurance	1.00%	11219
10	Turnkey Charges	0.00%	0
Total			1144350

Particulars	More than Rs. 40 Crs	
	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1731788	1144339
Total Cost of the Estimate	1731788	1144339

Item Code No. 0710					
33 kV Single Circuit 100sqmm, RIVER Crossing on 152 X 152 RSJ 13 mtr H Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	80	69.93	5594.40
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	AAAC 100 mm2	m	100	66.69	6669.23
7	33 kV Pin Insulators with G.I. Pins	NO.	6	462.50	2775.01
8	Disc Insulator 11 KV 45 KN	NO.	36	280.60	10101.60
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	369.91	4438.91
10	H.T.Stay Set	No	4	807.30	3229.20
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	71.81	1436.25
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Danger Board in yard.	No.	4	57.50	230.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
15	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
16	Black Bituminous Paint	Ltr.	2	97.75	195.50
17	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
18	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
19	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
20	Sundries	L.S.	1	885.50	885.50
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	642.38	7708.57
Cost of material					192699.21

1	Erection cost on material	15.00%	28905
2	Contractor supervision charges on material	5.00%	9635
Sub-Total			231239
3	Contractor's Profit	5.00%	11562
Sub-Total			242801
4	Transportation on material	4.00%	7708
5	T&P on material cost	1.00%	1927
6	Contingencies on material	2.00%	3854
Service Cost			537631
Sub-Total			256290
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	513
Sub-Total			256803
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2568
9	Insurance	1.00%	2568
10	Turnkey Charges	0.00%	0
Total			261939

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	396402	261936
Total Cost of the Estimate	396402	261936

Item Code No. 0711					
DOUPLE POLE STRUCTURE(cut point) OF- 33 KV LINE USING13 M LONG RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	2	29108.70	58217.40
2	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
3	MS Channel 100x50x6 mm	Kg.	46	69.93	3216.78
4	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
5	33 kv guarding channel MS100x50	Kg.	80.00	69.93	5594.40
6	33 kV Pin Insulators with G.I. Pins	No.	3	462.50	1387.50
7	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
8	Disc Insulator 11 KV 70 KN	No.	18	310.01	5580.23
9	H.T.Stay Set	No.	4	807.30	3229.20
10	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	20	71.81	1436.25
11	Earthing Sets H.T	No	2	461.70	923.40
12	G.I.Wire 8 SWG/ 6 SWG	kg.	6	71.75	430.50
13	G.I.Barbed Wire `A' type.	kg.	7	80.34	562.36
14	Danger Board in yard.	No.	2	57.50	115.00
15	Black Bituminus Paint	Ltr.	1	97.75	97.75
16	Red Oxide Paint for 2 coats	Ltr.	3	97.75	293.25
17	Aluminium Paint for 1 coat	Ltr.	2	129.95	259.90
18	Concreting ration 1:3:6	Cmt.	2	3935.10	7870.20
19	Sundries	LS	1	885.50	885.50
Cost of material					96470.32

1	Erection cost on material	15.00%	14471
2	Contractor supervision charges on material	5.00%	4824
Sub-Total			115764
3	Contractor's Profit	5.00%	5788
Sub-Total			121553
4	Transportation on material	4.00%	3859
5	T&P on material cost	1.00%	965
6	Contingencies on material	2.00%	1929
Service Cost			269152
Sub-Total			128306
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	257
Sub-Total			128562
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1286
9	Insurance	1.00%	1286
10	Turnkey Charges	0.00%	0
Total			131133

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	198449	131132
Total Cost of the Estimate	198449	131132

Item Code No. 0712					
DOUPLE POLE STRUCTURE (cut point) OF- 33 KV LINE USING 11 M LONG RSJ POLE 152 x 152					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	2	24630.75	49261.50
2	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
3	MS Channel 100x50x6 mm	Kg.	46	69.93	3216.78
4	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
5	33 kv guarding channel MS100x50	Kg.	80.00	69.93	5594.40
6	33 kV Pin Insulators with G.I. Pins	No.	3	462.50	1387.50
7	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
8	Disc Insulator 11 KV 70 KN	No.	18	310.01	5580.23
9	H.T.Stay Set	No.	4	807.30	3229.20
10	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	20	71.81	1436.25
11	Earthing Sets H.T	No	2	461.70	923.40
12	G.I.Wire 8 SWG/ 6 SWG	kg.	6	71.75	430.50
13	G.I.Barbed Wire `A' type.	kg.	7	80.34	562.36
14	Danger Board in yard.	No.	2	57.50	115.00
15	Black Bituminus Paint	Ltr.	1	97.75	97.75
16	Red Oxide Paint for 2 coats	Ltr.	3	97.75	293.25
17	Aluminium Paint for 1 coat	Ltr.	2	129.95	259.90
18	Concreting ration 1:3:6	Cmt.	2	3935.10	7870.20
19	Sundries	LS	1	885.50	885.50
Cost of material					87514.42

1	Erection cost on material	15.00%	13127
2	Contractor supervision charges on material	5.00%	4376
Sub-Total			105017
3	Contractor's Profit	5.00%	5251
Sub-Total			110268
4	Transportation on material	4.00%	3501
5	T&P on material cost	1.00%	875
6	Contingencies on material	2.00%	1750
Service Cost			244165
Sub-Total			116394
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	233
Sub-Total			116627
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	1166
9	Insurance	1.00%	1166
10	Turnkey Charges	0.00%	0
Total			118960

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	180026	118958
Total Cost of the Estimate	180026	118958

Item Code No. 0713					
DOUPLE POLE STRUCTURE(cut point) OF- 33 KV LINE USING 11 M LONG RSJ POLE 116x100					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
2	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
3	MS Channel 100x50x6 mm	Kg.	46	69.93	3216.78
4	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
5	33 kv guarding channel MS100x50	Kg.	80.00	69.93	5594.40
6	33 kV Pin Insulators with G.I. Pins	No.	3	462.50	1387.50
7	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
8	Disc Insulator 11 KV 70 KN	No.	18	310.01	5580.23
9	H.T.Stay Set	No.	4	807.30	3229.20
10	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	20	71.81	1436.25
11	Earthing Sets H.T	No	2	461.70	923.40
12	G.I.Wire 8 SWG/ 6 SWG	kg.	6	71.75	430.50
13	G.I.Barbed Wire `A' type.	kg.	7	80.34	562.36
14	Danger Board in yard.	No.	2	57.50	115.00
15	Black Bituminus Paint	Ltr.	1	97.75	97.75
16	Red Oxide Paint for 2 coats	Ltr.	3	97.75	293.25
17	Aluminium Paint for 1 coat	Ltr.	2	129.95	259.90
18	Concreting ration 1:3:6	Cmt.	2	3935.10	7870.20
19	Sundries	LS	1	885.50	885.50
Cost of material					68792.62

1	Erection cost on material	15.00%			10319
2	Contractor supervision charges on material	5.00%			3440
Sub-Total					82551
3	Contractor's Profit	5.00%			4128
Sub-Total					86679
4	Transportation on material	4.00%			2752
5	T&P on material cost	1.00%			688
6	Contingencies on material	2.00%			1376
Service Cost					191931
Sub-Total					91494
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			183
Sub-Total					91677
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			917
9	Insurance	1.00%			917
10	Turnkey Charges	0.00%			0
Total					93511

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	141513	93510
Total Cost of the Estimate	141513	93510

Item Code No. 0714					
SINGLE POLE CUT POINT STRUCTURE FOR 33KV LINE ON RSJ 13 M POLE					
S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	1	29108.70	29108.70
2	RSJ 152x152, 12 m long	No.	1	26869.05	26869.05
3	MS Channel 100x50x6 mm	Kg.	35	69.93	2447.55
4	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
5	33 kv guarding channel MS100x50	Kg.	40.00	69.93	2797.20
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
7	Disc Insulator 11 KV 70 KN	No.	18	310.01	5580.23
8	H.T.Stay Set	No.	2	807.30	1614.60
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	10	71.81	718.13
10	Earthing Sets H.T	No.	1	461.70	461.70
11	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
12	G.I.Barbed Wire 'A' type.	Kg.	2	80.34	160.68
13	Danger Board in yard.	No.	1	57.50	57.50
14	Concreting ration 1:3:6	Cmt.	1.5	3935.10	5902.65
15	Black Bituminus Paint	Ltr.	0.5	97.75	48.88
16	Red Oxide Paint for 2 coats	Ltr.	1.5	97.75	146.63
17	Aluminium Paint for 1 coat	Ltr.	1	129.95	129.95
18	Sundries	LS	1	885.50	885.50

Cost of material **82788.40**

1	Erection cost on material	15.00%	12418
2	Contractor supervision charges on material	5.00%	4139
Sub-Total			99346
3	Contractor's Profit	5.00%	4967
Sub-Total			104313
4	Transportation on material	4.00%	3312
5	T&P on material cost	1.00%	828
6	Contingencies on material	2.00%	1656
Service Cost			230980
Sub-Total			110109
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	220
Sub-Total			110329
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	1103
9	Insurance	1.00%	1103
10	Turnkey Charges	0.00%	0
Total			112535

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	170304	112534
Total Cost of the Estimate	170304	112534

SINGLE POLE CUT POINT STRUCTURE FOR 33KV LINE ON RSJ 11 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	1	24630.75	24630.75
2	RSJ 152x152, 10 m long	No.	1	22391.10	22391.10
3	MS Channel 100x50x6 mm	Kg.	35	69.93	2447.55
4	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
5	33 kv guarding channel MS100x50	Kg.	40.00	69.93	2797.20
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
7	Disc Insulator 11 KV 70 KN	No.	18	310.01	5580.23
8	H.T.Stay Set	No.	2	807.30	1614.60
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	10	71.81	718.13
10	Earthing Sets H.T	No.	1	461.70	461.70
11	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
12	G.I.Barbed Wire 'A' type.	Kg.	2	80.34	160.68
13	Danger Board in yard.	No.	1	57.50	57.50
14	Concreting ration 1:3:6	Cmt.	1.5	3935.10	5902.65
15	Black Bituminus Paint	Ltr.	0.5	97.75	48.88
16	Red Oxide Paint for 2 coats	Ltr.	1.5	97.75	146.63
17	Aluminium Paint for 1 coat	Ltr.	1	129.95	129.95
18	Sundries	LS	1	885.50	885.50

Cost of material

73832.50

1	Erection cost on material	15.00%	11075
2	Contractor supervision charges on material	5.00%	3692
	Sub-Total		88599
3	Contractor's Profit	5.00%	4430
	Sub-Total		93029
4	Transportation on material	4.00%	2953
5	T&P on material cost	1.00%	738
6	Contingencies on material	2.00%	1477
	Service Cost		205993
	Sub-Total		98197
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	196
	Sub-Total		98394
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	984
9	Insurance	1.00%	984
10	Turnkey Charges	0.00%	0

Total

100361

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	151881	100361
Total Cost of the Estimate	151881	100361

Item Code No. 0718					
Cost data for 33 KV S/C Line Pin type with 100 mm ² AAAC lines on 100 X 116 mm 11 mtr. RSJ Poles					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 11 m long	No.	17.00	15269.85	259587.45
2	RSJ 116x100, 10 m long	No.	2.00	13882.05	27764.10
3	MS Channel 100x50x6 mm	Kg.	132.00	69.93	9230.76
4	M.S.Channel 75x40x6 mm	Kg.	91.00	69.93	6363.63
5	MS angle 50x50x6 mm	Kg.	54.00	69.93	3776.22
6	M.S. Flats(50 X 10mm)	Kg.	36.00	65.48	2357.10
7	33 KV Pin Insulators with G.I. Pins	No.	42.00	462.50	19425.04
8	33 KV V Cross Arms	No.	14.00	1223.10	17123.40
9	33 KV Top Fitting	No.	14.00	515.70	7219.80
10	G.I.Nut Bolts	Kg.	80.00	111.92	8953.20
11	Disc Insulator 11 KV 70 KN	No.	54.00	310.01	16740.69
12	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	18.00	369.91	6658.36
13	AAAC 100 mm ²	Rmt	3150.00	66.69	210080.87
14	H.T.Stay Set	No.	6.00	807.30	4843.80
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	71.81	4308.75
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	71.75	9327.50
17	Sleeve Joints	No.	3.00	132.25	396.75
18	Danger Board in yard.	No.	17.00	57.50	977.50
19	Earthing Sets H.T	No.	17.00	461.70	7848.90
20	Concreting ration 1:3:6	cmt.	17.50	3935.10	68864.25
21	G.I.Barbed Wire 'A' type.	Kg.	80.00	80.34	6427.00
22	Black bituminous paint	Ltr.	6.00	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20.00	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9.00	129.95	1169.55
25	Sundries	LS	LS	885.50	885.50
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	642.38	11562.85
Cost of material					714434.47

1	Erection cost on material	15.00%	107165
2	Contractor supervision charges on material	5.00%	35722
Sub-Total			857321
3	Contractor's Profit	5.00%	42866
Sub-Total			900187
4	Transportation on material	4.00%	28577
5	T&P on material cost	1.00%	7144
6	Contingencies on material	2.00%	14289
Service Cost			1993272
Sub-Total			950198
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1900
Sub-Total			952098
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9521
9	Insurance	1.00%	9521
10	Turnkey Charges	0.00%	0

Total **971140**

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	1469663
Total Cost of the Estimate	1469663	971131

Assumption-

- 1) 3- cut points (including 1- rightangle cut point in 1 km.)
- 2) 1- line deviations upto 60°
- 3) 2- Strut support
- 4) Average span length - 60 mtrs.
- 5) concreting for all poles, struts & stages. (1:3:6)

Item Code No. 0720					
33 kV Pin type line with 100 sq. mm AAAC conductor on 152 X 152mm, 13 mtr RSJ pole					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	RSJ 152x152, 13 m long	No	17	29108.70	494847.90
2	RSJ 116x100, 12 m long	No	2	16657.65	33315.30
3	33 KV V Cross Arms	No	14	1223.10	17123.40
4	Clamps for 152 x 152 mm RSJ Pole Stay	Pair	34	340.20	11566.80
5	Clamps for 100 x 116 mm RSJ Pole Stay	Pair	4	229.50	918.00
6	33 KV Top Fitting	No	14	515.70	7219.80
7	33 kv Pin Insulators with G.I. Pins	No	42	462.50	19425.04
8	Disc Insulator 11 KV 70 KN	No	54	310.01	16740.69
9	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	18	369.91	6658.36
10	H.T.Stay Set	Set	6	807.30	4843.80
11	MS Channel 100x50x6 mm	Kg	105	69.93	7342.65
12	33 kv guarding channel MS100x50	Kg.	250.00	69.93	17482.50
13	G.I.Nut Bolts	Kg	100	111.92	11191.50
14	Earthing Sets H.T	Set	32	461.70	14774.40
15	AAAC 100 mm ²	Rmt	2000	66.69	133384.68
16	Danger Board in yard.	No	32	57.50	1840.00
17	Red Oxide Paint for 2 coats	Ltr	30	97.75	2932.50
18	Aluminium Paint for 1 coat	Ltr	30	129.95	3898.50
19	Sundries	LS	1	885.50	885.50
20	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	642.38	11562.85
	Cost of Material				805505.82

1	Erection cost on material	15.00%	120826
2	Contractor supervision charges on material	5.00%	40275
	Sub-Total		966607
3	Contractor's Profit	5.00%	48330
	Sub-Total		1014937
4	Transportation on material	4.00%	32220
5	T&P on material cost	1.00%	8055
6	Contingencies on material	2.00%	16110
	Service Cost		2247361
	Sub-Total		1071323
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2143
	Sub-Total		1073465
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	10735
9	Insurance	1.00%	10735
10	Turnkey Charges	0.00%	0

Particulars		
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	1657006	1094924
Total Cost of the Estimate	1657006	1094924

Item Code No. 0721					
33 kV Tapping structure using 100 X 116, 11 mtr RSJ pole.					
Sr.No	Description of Material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 11 m long	No	4	15269.85	61079.40
2	RSJ 116x100, 10 m long	No	0	13882.05	0.00
3	MS Channel 100x50x6 mm	Kg	204	69.93	14265.72
4	M.S.Channel 75x40x6 mm	Kg	300	69.93	20979.00
5	MS angle 50x50x6 mm	Kg	45	69.93	3146.85
6	M.S. Flats(50 X 10mm)	Kg	35	65.48	2291.63
7	33 kV Pin Insulators with G.I. Pins	No	3	462.50	1387.50
8	G.I.Nut Bolts	Kg	10	111.92	1119.15
9	Disc Insulator 11 KV 70 KN	No	18	310.01	5580.23
10	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	6	369.91	2219.45
11	H.T.Stay Set	Set	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	40.00	71.81	2872.50
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	15.000	71.75	1076.25
14	Aluminium Jointing Sleeve for 100 Sq mm AAAC	No	6	135.70	814.20
15	Danger Board in yard.	No	4	57.50	230.00
16	Earthing Sets H.T	Set	4	461.70	1846.80
17	G.I.Barbed Wire `A' type.	Kg.	10.00	80.34	803.38
18	33 KV Isolators without EB (800 Amp.)	Set	1.00	60612.00	60612.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1.00	3162.50	3162.50
Cost of Material					186715.76

1	Erection cost on material	15.00%	28007
2	Contractor supervision charges on material	5.00%	9336
Sub-Total			224059
3	Contractor's Profit	5.00%	11203
Sub-Total			235262
4	Transportation on material	4.00%	7469
5	T&P on material cost	1.00%	1867
6	Contingencies on material	2.00%	3734
Service Cost			520937
Sub-Total			248332
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	497
Sub-Total			248829
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2488
9	Insurance	1.00%	2488
10	Turnkey Charges	0.00%	0

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	384093	253803
Total Cost of the Estimate	384093	253803

Item Code No. 0725					
Express/Highway Crossing with 232 sqmm AAAC Conductor on 152 X 152, 13 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	80	69.93	5594.40
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	AAAC 232 mm2	mtr.	100	159.25	15925.00
6	33 kV Pin Insulators with G.I. Pins	NO.	6	462.50	2775.01
7	Disc Insulator 11 KV 45 KN	NO.	36	280.60	10101.60
8	Strain Hardware for AAAC232 sq.mm.	No.	12	692.94	8315.33
9	H.T.Stay Set	No	4	807.30	3229.20
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	71.81	1436.25
11	Earthing Sets H.T	No.	4	461.70	1846.80
12	Danger Board in yard.	No.	4	57.50	230.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
14	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
15	Black Bituminous Paint	Ltr.	2	97.75	195.50
16	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
17	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
18	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
19	Sundries	L.S.	1	885.50	885.50
20	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	825.92	9911.05
Cost of material					208033.88

1	Erection cost on material	15.00%	31205
2	Contractor supervision charges on material	5.00%	10402
Sub-Total			249641
3	Contractor's Profit	5.00%	12482
Sub-Total			262123
4	Transportation on material	4.00%	8321
5	T&P on material cost	1.00%	2080
6	Contingencies on material	2.00%	4161
Service Cost			580415
Sub-Total			276685
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	553
Sub-Total			277238
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2772
9	Insurance	1.00%	2772
10	Turnkey Charges	0.00%	0
Total			282783

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	427946	282780
Total Cost of the Estimate	427946	282780

Road Crossing with 232 sqmm AAAC Cooductor on 152 X 152, 10 mtr RSJ Poles

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 10 m long	No.	4	22391.10	89564.40
2	M.S.Channel 75x40x6 mm	Kg.	80	69.93	5594.40
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	AAAC 232 mm2	m	100	159.25	15925.00
6	33 kV Pin Insulators with G.I. Pins	NO.	6	462.50	2775.01
7	Disc Insulator 11 KV 45 KN	NO.	36	280.60	10101.60
8	Strain Hardware for AAAC232 sq.mm.	No.	12	692.94	8315.33
9	H.T.Stay Set	No	4	807.30	3229.20
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	71.81	1436.25
11	Earthing Sets H.T	No.	4	461.70	1846.80
12	Danger Board in yard.	No.	4	57.50	230.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
14	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
15	Black Bituminus Paint	Ltr.	2	97.75	195.50
16	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
17	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
18	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
19	Sundries	L.S.	1	885.50	885.50
20	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	825.92	9911.05
Cost of material					181163.48

1	Erection cost on material	15.00%	27175
2	Contractor supervision charges on material	5.00%	9058
Sub-Total			217396
3	Contractor's Profit	5.00%	10870
Sub-Total			228266
4	Transportation on material	4.00%	7247
5	T&P on material cost	1.00%	1812
6	Contingencies on material	2.00%	3623
Service Cost			505446
Sub-Total			240947
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	482
Sub-Total			241429
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2414
9	Insurance	1.00%	2414
10	Turnkey Charges	0.00%	0
Total			246258

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	372671	246256
Total Cost of the Estimate	372671	246256

Item Code No.801					
Cost data for Pin type, 22 KV, ACSR Weasel conductor on 116 X 100 mm, 11 mtr long RSJ Poles					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	15	15269.85	229047.75
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	177	69.93	12377.61
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
6	M.S. Flats(50 X 10mm)	Kg.	34	65.48	2226.15
7	22 KV V cross arm with clamp	No.	13.00	1223.10	15900.30
8	22 KV Top Fitting	No.	13.00	515.70	6704.10
9	G.I.Nut Bolts	Kg.	80	111.92	8953.20
10	22 KV Pin Insulators with G.I. Pins	No.	33	386.40	12751.20
11	Disc Insulator 11 KV 45 KN	No.	48	280.60	13468.80
12	Strain Hardware for Weasel/Squirrel	Set	24	205.16	4923.84
13	ACSR Weasel	Rmt	3150	23.27	73298.30
14	H.T.Stay Set	Set	8	807.30	6458.40
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
16	Earthing Sets H.T	Set	15	461.70	6925.50
17	G.I.Barbed Wire `A' type.	Kg.	66	80.34	5302.28
18	Danger Board in yard.	No.	15	57.50	862.50
19	Black Bituminous Paint	Ltr.	6	97.75	586.50
20	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
21	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
22	Concreting ration 1:3:6	Cmt.	17.5	3935.10	68864.25
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
24	Sundries	LS	1	885.50	885.50
25	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAC	No	24	131.23	3149.49
Cost of material					529434.93

1	Erection cost on material	15.00%	79415
2	Contractor supervision charges on material	5.00%	26472
Sub-Total			635322
3	Contractor's Profit	5.00%	31766
Sub-Total			667088
4	Transportation on material	4.00%	21177
5	T&P on material cost	1.00%	5294
6	Contingencies on material	2.00%	10589
Service Cost			1477123
Sub-Total			704148
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	1408
Sub-Total			705557
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	7056
9	Insurance	1.00%	7056
10	Turnkey Charges	0.00%	0
Total			719668

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	1089101
Total Cost of the Estimate	1089101	719661

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°
- 3) 2 Strut support
- 4) 5 Spans carpet guarding.
- 5) Average span lengthe - 70 mtrs.
- 6) Conceriting for all poles, struts & stages. (1:4:8)

Item Code No. 0804					
Cost data for 22 KV Single circuit Suspension type with 100sq.mm AAAC lines on 152x152 mm 11 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 11 m long	No.	17	24630.75	418722.75
2	RSJ 116x100, 10 m long	No.	2	13882.05	27764.10
3	MS Channel 100x50x6 mm	Kg.	607	69.93	42447.51
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	248	69.93	17342.64
6	M.S. Flats(50 X 10mm)	Kg.	107	65.48	7005.83
7	G.I.Nut Bolts	Kg.	90	111.92	10072.35
8	Disc Insulator 11 KV 45 KN	No.	126	280.60	35355.60
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	39.00	258.32	10074.66
10	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	24.00	369.91	8877.82
11	AAAC 100 mm2	Rmt	3150	66.69	210080.87
12	Sleeve Joints	No.	3	132.25	396.75
13	H.T.Stay Set	Set	8	807.30	6458.40
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
15	Earthing Sets H.T	Set	17	461.70	7848.90
16	G.I.Barbed Wire `A' type.	Kg.	77	80.34	6185.99
17	Danger Board in yard.	No.	17	57.50	977.50
18	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
20	Black Bituminus Paint	Ltr.	6	97.75	586.50
21	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
22	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
23	Sundries	LS	1	885.50	885.50
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
Cost of material					931931.31

1	Erection cost on material	15.00%	139790
2	Contractor supervision charges on material	5.00%	46597
	Sub-Total		1118318
3	Contractor's Profit	5.00%	55916
	Sub-Total		1174233
4	Transportation on material	4.00%	37277
5	T&P on material cost	1.00%	9319
6	Contingencies on material	2.00%	18639
	Service Cost		2600088
	Sub-Total		1239469
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2479
	Sub-Total		1241948
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	12419
9	Insurance	1.00%	12419
10	Turnkey Charges	0.00%	0
Total			1266787

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	1917076
Total Cost of the Estimate	1917076	1266774

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span length - 60 mtrs.
- 3) Concentering for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Item Code No. 0805					
Cost data for 22 KV Single circuit suspension type with 100sq.mm AAAC lines on 152x152 mm 13 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 13 m long	No.	17	29108.70	494847.90
2	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg.	607	69.93	42447.51
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	248	69.93	17342.64
6	M.S. Flats(50 X 10mm)	Kg.	107	65.48	7005.83
7	G.I.Nut Bolts	Kg.	90	111.92	10072.35
8	Disc Insulator 11 KV 45 KN	No.	126	280.60	35355.60
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	39.00	258.32	10074.66
10	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	24.00	369.91	8877.82
11	AAAC 100 mm2	Rmt	3150	66.69	210080.87
12	Sleeve Joints	No.	3	132.25	396.75
13	H.T.Stay Set	Set	8	807.30	6458.40
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
15	Earthing Sets H.T	Set	17	461.70	7848.90
16	G.I.Barbed Wire `A' type.	Kg.	77	80.34	6185.99
17	Danger Board in yard.	No.	17	57.50	977.50
18	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
20	Black Bituminus Paint	Ltr.	6	97.75	586.50
21	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
22	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
23	Sundries	LS	1	885.50	885.50
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
Cost of material					1010832.06

1	Erection cost on material	15.00%	151625
2	Contractor supervision charges on material	5.00%	50542
Sub-Total			1212998
3	Contractor's Profit	5.00%	60650
Sub-Total			1273648
4	Transportation on material	4.00%	40433
5	T&P on material cost	1.00%	10108
6	Contingencies on material	2.00%	20217
Service Cost			2820221
Sub-Total			1344407
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2689
Sub-Total			1347095
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	13471
9	Insurance	1.00%	13471
10	Turnkey Charges	0.00%	0
Total			1374037

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	105.71%
Total Cost of the Estimate	2079383	1374024

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 2 strut support considered.

Cost data for 22 KV Single circuit Pin type with 100sq.mm AAAC lines on 152x152 mm 11 mtr RSJ poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 11 m long	No.	17	24630.75	418722.75
2	RSJ 116x100, 10 m long	No.	2	13882.05	27764.10
3	MS Channel 100x50x6 mm	Kg.	177	69.93	12377.61
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
6	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
7	22 KV V cross arm with clamp	No.	13.00	1223.10	15900.30
8	22 KV Top Fitting	No.	13.00	515.70	6704.10
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	22 kV Pin Insulators with G.I. Pins	No.	39	386.40	15069.60
11	Disc Insulator 11 KV 45 KN	No.	48	280.60	13468.80
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	369.91	8877.82
13	AAAC 100 mm2	Rmt	3150	66.69	210080.87
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T.Stay Set	Set	8	807.30	6458.40
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
17	Earthing Sets H.T	Set	17	461.70	7848.90
18	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
19	Danger Board in yard.	No.	17	57.50	977.50
20	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
22	Black Bituminous Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
Cost of material					890683.02

1	Erection cost on material	15.00%	133602
2	Contractor supervision charges on material	5.00%	44534
Sub-Total			1066820
3	Contractor's Profit	5.00%	53441
Sub-Total			1122261
4	Transportation on material	4.00%	35627
5	T&P on material cost	1.00%	8907
6	Contingencies on material	2.00%	17814
Service Cost			2485006
Sub-Total			1184608
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2369
Sub-Total			1186978
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	11870
9	Insurance	1.00%	11870
10	Turnkey Charges	0.00%	0

Total **1210717**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1832224	1210705
Total Cost of the Estimate	1832224	1210705

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 2 strut support considered.

Cost data for 22 KV Single circuit Pin type with 100sq.mm AAAC lines on 100x116 mm 10 mtr RSJ poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 10 m long	No.	17	13882.05	235994.85
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	177	69.93	12377.61
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
6	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
7	22 KV V cross arm with clamp	No.	13.00	1223.10	15900.30
8	22 KV Top Fitting	No.	13.00	515.70	6704.10
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	22 kV Pin Insulators with G.I. Pins	No.	39	386.40	15069.60
11	Disc Insulator 11 KV 45 KN	No.	48	280.60	13468.80
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	369.91	8877.82
13	AAAC 100 mm2	Rmt	3150	66.69	210080.87
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T.Stay Set	Set	8	807.30	6458.40
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
17	Earthing Sets H.T	Set	17	461.70	7848.90
18	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
19	Danger Board in yard.	No.	17	57.50	977.50
20	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
22	Black Bituminous Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
Cost of material					705176.82

1	Erection cost on material	15.00%	105777
2	Contractor supervision charges on material	5.00%	35259
Sub-Total			846212
3	Contractor's Profit	5.00%	42311
Sub-Total			888523
4	Transportation on material	4.00%	28207
5	T&P on material cost	1.00%	7052
6	Contingencies on material	2.00%	14104
Service Cost			1967443
Sub-Total			937885
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	1876
Sub-Total			939761
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9398
9	Insurance	1.00%	9398
10	Turnkey Charges	0.00%	0
Total			958556

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1450619	958547
Total Cost of the Estimate	1450619	958547

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Concentering for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Cost data for 22 kV Single Circuit pin type with ACSR Weasel on 9 mtr PSC 200 kg poles

For Wind pressure Zone : 50/75/100 Kg./m²

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	PSC Pole 9 Mtr (200 KG)	No.	18	2712.00	48816.00
2	M.S. Flats(50 X 10mm)	Kg.	39	65.48	2553.53
3	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
4	MS Channel 100x50x6 mm	Kg.	177	69.93	12377.61
5	22 KV V cross arm with clamp	No.	14.00	1223.10	17123.40
6	22 KV Top Fitting	No.	14.00	515.70	7219.80
7	22 kV Pin Insulators with G.I. Pins	No.	42	386.40	16228.80
8	Disc Insulator 11 KV 45 KN	No.	48	280.60	13468.80
9	Strain Hardware forWeasel/Squirrel	Set	24	205.16	4923.84
10	ACSR Weasel	Rmt	3150	23.27	73298.30
11	Sieve Joints	No.	3	132.25	396.75
12	H.T.Stay Set	No.	8	807.30	6458.40
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
14	Earthing Sets H.T	No	18	461.70	8310.60
15	G.I.Barbed Wire 'A' type.	Kg.	30	80.34	2410.13
16	Danger Board in yard.	No.	18	57.50	1035.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
18	Concreting ration 1:3:6	No.	10	3935.10	39351.00
19	Black Bituminus Paint	Ltr.	6	97.75	586.50
20	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
21	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
22	Sundries	LS	1	885.50	885.50
23	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	131.23	3149.49
Cost of material					285321.96

1	Erection cost on material	15.00%	42798
2	Contractor supervision charges on material	5.00%	14266
Sub-Total			342386
3	Contractor's Profit	5.00%	17119
Sub-Total			359506
4	Transportation on material	4.00%	11413
5	T&P on material cost	1.00%	2853
6	Contingencies on material	2.00%	5706
Service Cost			796048
Sub-Total			379478
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	759
Sub-Total			380237
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3802
9	Insurance	1.00%	3802
10	Turnkey Charges	0.00%	0

Total **387842**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	586936	387838
Total Cost of the Estimate	586936	387838

Item Code No. 0809					
Cost data for 22 kV Single Circuit Express/Highway Crossing with AAAC 100 sqmm conductor on Double 152 X 152 RSJ 13 mtr Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	AAAC 100 mm ²	m	100	66.69	6669.23
7	22 kV Pin Insulators with G.I. Pins	NO.	6	386.40	2318.40
8	Disc Insulator 11 KV 45 KN	NO.	24	280.60	6734.40
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	369.91	4438.91
10	H.T.Stay Set	No	4	807.30	3229.20
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Danger Board in yard.	No.	4	57.50	230.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
15	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
16	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
17	Black Bituminous Paint	Ltr.	2	97.75	195.50
18	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
19	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
20	Sundries	L.S.	1	885.50	885.50
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	642.38	7708.57
Cost of material					187835.86

1	Erection cost on material	15.00%	28175
2	Contractor supervision charges on material	5.00%	9392
Sub-Total			225403
3	Contractor's Profit	5.00%	11270
Sub-Total			236673
4	Transportation on material	4.00%	7513
5	T&P on material cost	1.00%	1878
6	Contingencies on material	2.00%	3757
Service Cost			524062
Sub-Total			249822
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	500
Sub-Total			250321
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2503
9	Insurance	1.00%	2503
10	Turnkey Charges	0.00%	0
Total			255328

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	386397	255325
Total Cost of the Estimate	386397	255325

Item Code No. 0810					
Cost data for Road crossing with AAAC 100 sqmm conductor on 100 X 116mm, 10 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 10 m long	No.	4	13882.05	55528.20
2	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	AAAC 100 mm ²	m	100	66.69	6669.23
7	22 kV Pin Insulators with G.I. Pins	NO.	4	386.40	1545.60
8	Disc Insulator 11 KV 45 KN	NO.	24	280.60	6734.40
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	369.91	4438.91
10	H.T.Stay Set	No	4	807.30	3229.20
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Danger Board in yard.	No.	4	57.50	230.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
15	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
16	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
17	Black Bituminous Paint	Ltr.	2	97.75	195.50
18	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
19	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
20	Sundries	L.S.	1	885.50	885.50
21	Wedge connectors			0.00	0.00
a)	DOG TO DOG or equivalent AAAC	No	12	642.38	7708.57
Cost of material					126156.46
1	Erection cost on material		15.00%		18923
2	Contractor supervision charges on material		5.00%		6308
Sub-Total					151388
3	Contractor's Profit		5.00%		7569
Sub-Total					158957
4	Transportation on material		4.00%		5046
5	T&P on material cost		1.00%		1262
6	Contingencies on material		2.00%		2523
Service Cost					351977
Sub-Total					167788
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		336
Sub-Total					168124
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		1681
9	Insurance		1.00%		1681
10	Turnkey Charges		0.00%		0
Total					171486

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	259516	171484
Total Cost of the Estimate	259516	171484

Item Code No.0811					
Cost Data for laying of 1 Km. 22 KV 3 C 95 mm 2 XLPE under ground Cable					
Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 22 KV, 3 C / 95 mm sq.	Rmt	1000.00	1142.10	1142100.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	RCC Tiles (0.6 x 0.5) Mtrs.	No.	940.00	135.20	127088.00
4	22 KV st. through joints for 3 C / 95 mm sq.	No	2.00	12077.00	24154.00
5	22 KV Termination joint (OD) for 3 C / 95 mm sq.	No.	2.00	7381.00	14762.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Misc. for XLPE U/G Cable	LS	1.00	1150.00	1150.00

Cost of material			1390239.00
1	Erection cost on material	15.00%	208536
2	Contractor supervision charges on material	5.00%	69512
	Sub-Total		1668287
3	Contractor's Profit	5.00%	83414
	Sub-Total		1751701
4	Transportation on material	4.00%	55610
5	T&P on material cost	1.00%	13902
6	Contingencies on material	2.00%	27805
	Service Cost		3878767
	Sub-Total		1849018
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	3698
	Sub-Total		1852716
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	18527
9	Insurance	1.00%	18527
10	Turnkey Charges	0.00%	0
	Total		1889770

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	2859861	1889752
Total Cost of the Estimate	2859861	1889752

Item Code No. 0813					
Cost Data for laying of 1 Km. 22 KV 3 C 300 Sqmm XLPE under ground Cable					
Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	1000.00	1932.48	1932480.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	22 kV Heat shrik Straight through joint (A) kit for XLPE 3 C X 300 sqmm	No.	2.00	24600.00	49200.00
5	22 kV Heat shrik Outdoor termination joint (A) kit for XLPE 3 C X 300 sqmm	No.	2.00	13715.00	27430.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Misc. for XLPE U/G Cable	LS	1.00	1150.00	1150.00
Cost of material					2225665.00

1	Erection cost on material	15.00%	333850
2	Contractor supervision charges on material	5.00%	111283
Sub-Total			2670798
3	Contractor's Profit	5.00%	133540
Sub-Total			2804338
4	Transportation on material	4.00%	89027
5	T&P on material cost	1.00%	22257
6	Contingencies on material	2.00%	44513
Service Cost			6209605
Sub-Total			2960134
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	5920
Sub-Total			2966055
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	29661
9	Insurance	1.00%	29661
10	Turnkey Charges	0.00%	0
Total			3025376

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	4578415	3025346
Total Cost of the Estimate	4578415	3025346

Item Code No. 0814					
22 kV 3 X 300 sqmm XLPE Underground Cable for Railway line crossing as per Sketch					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	22KV A.B.Switch, 400 A	Set	2	17336.40	34672.80
7	22KV H.G.Fuses	Set	2	5360.40	10720.80
8	AAAC 100 mm ²	Rmt	100	66.69	6669.23
9	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	160.00	1932.48	309196.80
10	R.C.C. Pipe 150 mm 2 M	No	60.00	572.00	34320.00
11	22 kV Heat shrink Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	4.00	13715.00	54860.00
12	Sand	Cmt	500.00	255.30	127650.00
13	Black Bituminous Paint	Ltr.	2	97.75	195.50
14	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
15	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
16	Misc. for XLPE U/G Cable	LS	2.00	1150.00	2300.00
Cost of material					712424.89

1	Erection cost on material	15.00%	106864
2	Contractor supervision charges on material	5.00%	35621
Sub-Total			854910
3	Contractor's Profit	5.00%	42745
Sub-Total			897655
4	Transportation on material	4.00%	28497
5	T&P on material cost	1.00%	7124
6	Contingencies on material	2.00%	14248
Service Cost			1987665
Sub-Total			947525
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1895
Sub-Total			949420
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9494
9	Insurance	1.00%	9494
10	Turnkey Charges	0.00%	0

Total **968409**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1465529	968399
Total Cost of the Estimate	1465529	968399

Cost data for RIVER Crossing with 100sqmm conductor on 152 X 152 RSJ 13 mtr H Poles

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	AAAC 100 mm ²	m	100	66.69	6669.23
7	22 kV Pin Insulators with G.I. Pins	NO.	6	386.40	2318.40
8	Disc Insulator 11 KV 45 KN	NO.	24	280.60	6734.40
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	369.91	4438.91
10	H.T.Stay Set	No	4	807.30	3229.20
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Danger Board in yard.	No.	4	57.50	230.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
15	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
16	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
17	Black Bituminous Paint	Ltr.	2	97.75	195.50
18	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
19	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
20	Sundries	L.S.	1	885.50	885.50
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	642.38	7708.57
Cost of material					187835.86

1	Erection cost on material	15.00%	28175
2	Contractor supervision charges on material	5.00%	9392
Sub-Total			225403
3	Contractor's Profit	5.00%	11270
Sub-Total			236673
4	Transportation on material	4.00%	7513
5	T&P on material cost	1.00%	1878
6	Contingencies on material	2.00%	3757
Service Cost			524062
Sub-Total			249822
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	500
Sub-Total			250321
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2503
9	Insurance	1.00%	2503
10	Turnkey Charges	0.00%	0
Total			255328

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	386397	255325
Total Cost of the Estimate	386397	255325

COST DATA FOR DOUPLE POLE STRUCTURE(cut point) OF- 22 KV LINE USING13 M LONG RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	2	29108.70	58217.40
2	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
5	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
7	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
8	H.T.Stay Set	No.	2	807.30	1614.60
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	71.81	1795.31
10	Earthing Sets H.T	No	2	461.70	923.40
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	71.75	430.50
12	G.I.Barbed Wire 'A' type.	kg.	7	80.34	562.36
13	Danger Board in yard.	No.	2	57.50	115.00
14	Black Bituminous Paint	Ltr.	1	97.75	97.75
15	Red Oxide Paint for 2 coats	Ltr.	3	97.75	293.25
16	Aluminium Paint for 1 coat	Ltr.	2	129.95	259.90
17	Concreting ration 1:3:6	Cmt.	2	3935.10	7870.20
18	Sundries	L.S.	1	885.50	885.50

Cost of material **94344.82**

1	Erection cost on material	15.00%	14152
2	Contractor supervision charges on material	5.00%	4717
Sub-Total			113214
3	Contractor's Profit	5.00%	5661
Sub-Total			118874
4	Transportation on material	4.00%	3774
5	T&P on material cost	1.00%	943
6	Contingencies on material	2.00%	1887
Service Cost			263222
Sub-Total			125479
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	251
Sub-Total			125730
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	1257
9	Insurance	1.00%	1257
10	Turnkey Charges	0.00%	0
Total			128244

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	194077	128243
Total Cost of the Estimate	194077	128243

Item Code No. 0817					
COST DATA FOR DOUPLE POLE STRUCTURE(cut point) OF- 22 KV LINE USING11 M LONG RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	2	24630.75	49261.50
2	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
5	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
7	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
8	H.T.Stay Set	No.	2	807.30	1614.60
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	71.81	1795.31
10	Earthing Sets H.T	No	2	461.70	923.40
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	71.75	430.50
12	G.I.Barbed Wire 'A' type.	kg.	7	80.34	562.36
13	Danger Board in yard.	No.	2	57.50	115.00
14	Black Bituminous Paint	Ltr.	1	97.75	97.75
15	Red Oxide Paint for 2 coats	Ltr.	3	97.75	293.25
16	Aluminium Paint for 1 coat	Ltr.	2	129.95	259.90
17	Concreting ration 1:3:6	Cmt.	2	3935.10	7870.20
18	Sundries	L.S.	1	885.50	885.50
Cost of material					85388.92

1	Erection cost on material	15.00%	12808
2	Contractor supervision charges on material	5.00%	4269
Sub-Total			
3	Contractor's Profit	5.00%	5123
Sub-Total			
4	Transportation on material	4.00%	3416
5	T&P on material cost	1.00%	854
6	Contingencies on material	2.00%	1708
Service Cost			
Sub-Total			
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	227
Sub-Total			
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1138
9	Insurance	1.00%	1138
10	Turnkey Charges	0.00%	0
Total			
116070			

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	175654
Total Cost of the Estimate	175654	116069

COST DATA FOR DOUPLE POLE STRUCTURE(cut point) OF- 22 KV LINE USING11 M LONG RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
2	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
5	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
7	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
8	H.T.Stay Set	No.	2	807.30	1614.60
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	71.81	1795.31
10	Earthing Sets H.T	No	2	461.70	923.40
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	71.75	430.50
12	G.I.Barbed Wire 'A' type.	kg.	7	80.34	562.36
13	Danger Board in yard.	No.	2	57.50	115.00
14	Black Bituminous Paint	Ltr.	1	97.75	97.75
15	Red Oxide Paint for 2 coats	Ltr.	3	97.75	293.25
16	Aluminium Paint for 1 coat	Ltr.	2	129.95	259.90
17	Concreting ration 1:3:6	Cmt.	2	3935.10	7870.20
18	Sundries	L.S.	1	885.50	885.50

Cost of material

66667.12

1	Erection cost on material	15.00%	10000
2	Contractor supervision charges on material	5.00%	3333
	Sub-Total		80001
3	Contractor's Profit	5.00%	4000
	Sub-Total		84001
4	Transportation on material	4.00%	2667
5	T&P on material cost	1.00%	667
6	Contingencies on material	2.00%	1333
	Service Cost		186001
	Sub-Total		88667
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	177
	Sub-Total		88845
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	888
9	Insurance	1.00%	888
10	Turnkey Charges	0.00%	0

Total

90621

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	137141	90621
Total Cost of the Estimate	137141	90621

COST DATA FOR SINGLE POLE CUT POINT STRUCTURE FOR 22KV LINE ON RSJ 9 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	1	12492.90	12492.90
2	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
3	MS Channel 100x50x6 mm	Kg.	35	69.93	2447.55
4	M.S.Channel 75x40x6 mm	Kg.	25	69.93	1748.25
5	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
6	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
7	H.T.Stay Set	No.	1	807.30	807.30
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	71.81	933.56
9	Earthing Sets H.T	No.	1	461.70	461.70
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
11	G.I.Barbed Wire 'A' type.	Kg.	2	80.34	160.68
12	Danger Board in yard.	No.	1	57.50	57.50
13	Concreting ration 1:3:6	Cmt.	1.5	3935.10	5902.65
14	Black Bituminous Paint	Ltr.	0.5	97.75	48.88
15	Red Oxide Paint for 2 coats	Ltr.	1.5	97.75	146.63
16	Aluminium Paint for 1 coat	Ltr.	1	129.95	129.95
17	Sundries	LS	1	885.50	885.50
Cost of material					35802.65

1	Erection cost on material	15.00%	5370
2	Contractor supervision charges on material	5.00%	1790
Sub-Total			42963
3	Contractor's Profit	5.00%	2148
Sub-Total			45111
4	Transportation on material	4.00%	1432
5	T&P on material cost	1.00%	358
6	Contingencies on material	2.00%	716
Service Cost			99889
Sub-Total			47618
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	95
Sub-Total			47713
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	477
9	Insurance	1.00%	477
10	Turnkey Charges	0.00%	0
Total			48667

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	73650	48667
Total Cost of the Estimate	73650	48667

COST DATA FOR SINGLE POLE CUT POINT STRUCTURE FOR 22KV LINE ON RSJ 11 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	1	24630.75	24630.75
2	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
3	MS Channel 100x50x6 mm	Kg.	35	69.93	2447.55
4	M.S.Channel 75x40x6 mm	Kg.	25	69.93	1748.25
5	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
6	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
7	H.T.Stay Set	No.	1	807.30	807.30
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	71.81	933.56
9	Earthing Sets H.T	No.	1	461.70	461.70
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
11	G.I.Barbed Wire 'A' type.	Kg.	2	80.34	160.68
12	Danger Board in yard.	No.	1	57.50	57.50
13	Concreting ration 1:3:6	Cmt.	1.5	3935.10	5902.65
14	Black Bituminous Paint	Ltr.	0.5	97.75	48.88
15	Red Oxide Paint for 2 coats	Ltr.	1.5	97.75	146.63
16	Aluminium Paint for 1 coat	Ltr.	1	129.95	129.95
17	Sundries	LS	1	885.50	885.50
Cost of material					47940.50

1	Erection cost on material	15.00%	7191
2	Contractor supervision charges on material	5.00%	2397
Sub-Total			57529
3	Contractor's Profit	5.00%	2876
Sub-Total			60405
4	Transportation on material	4.00%	1918
5	T&P on material cost	1.00%	479
6	Contingencies on material	2.00%	959
Service Cost			133754
Sub-Total			63761
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	128
Sub-Total			63888
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	639
9	Insurance	1.00%	639
10	Turnkey Charges	0.00%	0
Total			65166

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	98618	65166
Total Cost of the Estimate	98618	65166

COST DATA FOR SINGLE POLE CUT POINT STRUCTURE FOR 22KV LINE ON PSC 9 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	PSC Pole 9 Mtr (200 KG)	No.	1	2712.00	2712.00
2	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
3	MS Channel 100x50x6 mm	Kg.	35	69.93	2447.55
4	M.S.Channel 75x40x6 mm	Kg.	25	69.93	1748.25
5	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
6	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
7	H.T.Stay Set	No.	1	807.30	807.30
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	71.81	933.56
9	Earthing Sets H.T	No.	1	461.70	461.70
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
11	G.I.Barbed Wire 'A' type.	Kg.	2	80.34	160.68
12	Danger Board in yard.	No.	1	57.50	57.50
13	Concreting ration 1:3:6	Cmt.	1.5	3935.10	5902.65
14	Black Bituminous Paint	Ltr.	0.5	97.75	48.88
15	Red Oxide Paint for 2 coats	Ltr.	1.5	97.75	146.63
16	Aluminium Paint for 1 coat	Ltr.	1	129.95	129.95
17	Sundries	LS	1	885.50	885.50
Cost of material					26021.75

1	Erection cost on material	15.00%	3903
2	Contractor supervision charges on material	5.00%	1301
Sub-Total			31226
3	Contractor's Profit	5.00%	1561
Sub-Total			32787
4	Transportation on material	4.00%	1041
5	T&P on material cost	1.00%	260
6	Contigencies on material	2.00%	520
Service Cost			72601
Sub-Total			34609
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	69
Sub-Total			34678
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	347
9	Insurance	1.00%	347
10	Turnkey Charges	0.00%	0
Total			35372

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	53529	35371
Total Cost of the Estimate	53529	35371

Cost data for 22 KV Single circuit suspension type with 232sq.mm AAAC lines on 152x152 mm 13 mtr RSJ poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 13 m long	No.	17	29108.70	494847.90
2	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
3	G.I.Channel 100x50x6mm	Kg.	607	94.61	57427.06
4	G.I.Channel 75x40x6mm	Kg.	122	94.61	11542.18
5	G.I.Angle 50x50x6mm	Kg.	248	94.61	23462.78
6	G.I Flat 50x10 mm	Kg.	107	90.15	9646.37
7	G.I.Nut Bolts	Kg.	90	111.92	10072.35
8	22 kv Pin Insulators with G.I. Pins	No.	3	386.40	1159.20
9	Disc Insulator 11 KV 45 KN	No.	126	280.60	35355.60
10	Suspension Hardware for 0.2 ACSR or equivalent AAAC	No.	39.00	389.72	15199.22
11	Strain Hardware for AAAC232 sq.mm.	No.	24.00	692.94	16630.66
12	AAAC 232 mm2	Rmt	3100	159.25	493675.00
13	Jointing Sleeves for Conductor.	No.	3	42.55	127.65
14	H.T.Stay Set	Set	11	807.30	8880.30
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
16	Earthing Sets H.T	Set	18	461.70	8310.60
17	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
18	Danger Board in yard.	No.	18	57.50	1035.00
19	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
21	Black Bituminous Paint	Ltr.	7	97.75	684.25
22	Red Oxide Paint for 2 coats	Ltr.	23	97.75	2248.25
23	Aluminium Paint for 1 coat	Ltr.	12	129.95	1559.40
24	Sundries	LS	1	885.50	885.50
25	Wedge connectors				
	PANTHER TO PANTHER or equivalent AAAC	No	24	825.92	19822.10
Cost of material					1323249.45

1	Erection cost on material	15.00%	198487
2	Contractor supervision charges on material	5.00%	66162
Sub-Total			1587899
3	Contractor's Profit	5.00%	79395
Sub-Total			1667294
4	Transportation on material	4.00%	52930
5	T&P on material cost	1.00%	13232
6	Contingencies on material	2.00%	26465
Service Cost			3691866
Sub-Total			1759922
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	3520
Sub-Total			1763442
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	17634
9	Insurance	1.00%	17634
10	Turnkey Charges	0.00%	0

Total **1798710**

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	2722056
Total Cost of the Estimate	2722056	1798693

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Item Code No. 0823					
Single Circuit Pin type with 232sq.mm AAAC lines on 152x152 mm 13 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 13 m long	No.	17	29108.70	494847.90
2	RSJ 152x152, 12 m long	No.	2	26869.05	53738.10
3	MS Channel 100x50x6 mm	Kg.	177	69.93	12377.61
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	22 KV V cross arm with clamp	No.	13	1223.10	15900.30
6	22 KV Top Fitting	No.	13	515.70	6704.10
7	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
8	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	22 kV Pin Insulators with G.I. Pins	No.	39	386.40	15069.60
11	Disc Insulator 11 KV 45 KN	No.	48	280.60	13468.80
12	Strain Hardware for AAAC232 sq.mm.	Set	24	692.94	16630.66
13	AAAC 232 mm2	Rmt	3150	159.25	501637.50
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T.Stay Set	Set	8	807.30	6458.40
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
17	Earthing Sets H.T	Set	17	461.70	7848.90
18	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
19	Danger Board in yard.	No.	17	57.50	977.50
20	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
22	Black Bituminous Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	24	825.92	19822.10
Cost of material					1296496.60

1	Erection cost on material	15.00%		194474
2	Contractor supervision charges on material	5.00%		64825
	Sub-Total			1555796
3	Contractor's Profit	5.00%		77790
	Sub-Total			1633586
4	Transportation on material	4.00%		51860
5	T&P on material cost	1.00%		12965
6	Contingencies on material	2.00%		25930
	Service Cost			3617226
	Sub-Total			1724340
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		3449
	Sub-Total			1727789
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		17278
9	Insurance	1.00%		17278
10	Turnkey Charges	0.00%		0
	Total			1762345

Particulars		
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	2667023	1762328
Total Cost of the Estimate	2667023	1762328

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Item Code No. 0824					
Single Circuit Express/Highway Crossing with AAAC 232 sqmm conductor on Double 152 X 152 RSJ 13 mtr Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	AAAC 232 mm2	m	100	159.25	15925.00
7	22 kV Pin Insulators with G.I. Pins	NO.	6	386.40	2318.40
8	Disc Insulator 11 KV 45 KN	NO.	24	280.60	6734.40
9	Strain Hardware for AAAC232 sq.mm.	No.	12	692.94	8315.33
10	H.T.Stay Set	No	4	807.30	3229.20
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Danger Board in yard.	No.	4	57.50	230.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
15	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
16	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
17	Black Bituminous Paint	Ltr.	2	97.75	195.50
18	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
19	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
20	Sundries	L.S.	1	885.50	885.50
21	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	825.92	9911.05
Cost of material					203170.53

1	Erection cost on material	15.00%		30476
2	Contractor supervision charges on material	5.00%		10159
	Sub-Total			243805
3	Contractor's Profit	5.00%		12190
	Sub-Total			255995
4	Transportation on material	4.00%		8127
5	T&P on material cost	1.00%		2032
6	Contingencies on material	2.00%		4063
	Service Cost			566846
	Sub-Total			270217
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		540
	Sub-Total			270757
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		2708
9	Insurance	1.00%		2708
10	Turnkey Charges	0.00%		0
	Total			276172

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	417942	276170
Total Cost of the Estimate	417942	276170

Item Code No. 0825					
Road crossing with AAAC 232 sqmm conductor on 152 X 152mm,13 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	60	69.93	4195.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	AAAC 232 mm2	m	100	159.25	15925.00
7	22 kV Pin Insulators with G.I. Pins	NO.	4	386.40	1545.60
8	Disc Insulator 11 KV 45 KN	NO.	24	280.60	6734.40
9	Strain Hardware for AAAC232 sq.mm.	No.	12	692.94	8315.33
10	H.T.Stay Set	No	4	807.30	3229.20
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Danger Board in yard.	No.	4	57.50	230.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
15	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
16	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
17	Black Bituminous Paint	Ltr.	2	97.75	195.50
18	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
19	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
20	Sundries	L.S.	1	885.50	885.50
21	Wedge connectors			0.00	0.00
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	825.92	9911.05
Cost of material					202397.73

1	Erection cost on material	15.00%	30360
2	Contractor supervision charges on material	5.00%	10120
Sub-Total			242877
3	Contractor's Profit	5.00%	12144
Sub-Total			255021
4	Transportation on material	4.00%	8096
5	T&P on material cost	1.00%	2024
6	Contingencies on material	2.00%	4048
Service Cost			564690
Sub-Total			269189
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	538
Sub-Total			269727
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2697
9	Insurance	1.00%	2697
10	Turnkey Charges	0.00%	0
Total			275122

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	416352	275119
Total Cost of the Estimate	416352	275119

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Item Code No. 0826
Cost Data for Supply, Erection, Testing & Commissioning of HT Pillar

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	HT Pillar 22 KV	No.	1.00	82974.00	82974.00
	Cost of material				82974.00
1	Erection cost on material		15.00%		12446
2	Contractor supervision charges on material		5.00%		4149
	Sub-Total				99569
3	Contractor's Profit		5.00%		4978
	Sub-Total				104547
4	Transportation on material		4.00%		3319
5	T&P on material cost		1.00%		830
6	Contingencies on material		2.00%		1659
	Service Cost				231497
	Sub-Total				110355
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		221
	Sub-Total				110576
	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		1106
9	Insurance		1.00%		1106
10	Turnkey Charges		0.00%		0
	Total				112788
9	HT Pillar Foundation		1.00	16321.41	16321
	Total Cost of Estimate				129109

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	170686	112787
HT Pillar Foundation	20751	16321
Total Cost of the Estimate	191437	129108

Item Code No. 0827					
Cost Data for Supply, Erection, Testing & Commissioning of HT Cable Joint Chamber					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	HT Cable Joint Chamber (Civil)	No.	1.00	1493.70	1493.70
	Cost of material				1493.70
1	Erection cost on material		15.00%		224
2	Contractor supervision charges on material		5.00%		75
	Sub-Total				1792
3	Contractor's Profit		5.00%		90
	Sub-Total				1882
4	Transportation on material		4.00%		60
5	T&P on material cost		1.00%		15
6	Contingencies on material		2.00%		30
	Service Cost				4167
	Sub-Total				1987
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		4
	Sub-Total				1991
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		20
9	Insurance		1.00%		20
10	Turnkey Charges		0.00%		0
	Total				2030
	Particulars	DPR Amount	Tender/ Estimate Amount		
		105.71%	35.930%		
	Cost with overheads on Material	3073	2030		
	Total Cost of the Estimate	3073	2030		

Item Code No.830					
Pin type, 22 KV, AAC 55 mm ² . conductor on 116 X 100 mm,9 mtr long RSJ Poles					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	15	12492.90	187393.50
2	RSJ 116x100, 8 m long	No.	2	11105.10	22210.20
3	MS Channel 100x50x6 mm	Kg.	177	69.93	12377.61
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
6	22 KV V cross arm with clamp	No.	11	1223.10	13454.10
7	22 KV Top Fitting	No.	11	515.70	5672.70
8	M.S. Flats(50 X 10mm)	Kg.	34	65.48	2226.15
9	G.I.Nut Bolts	Kg.	80	111.92	8953.20
10	22 KV Pin Insulators with G.I. Pins	No.	33	386.40	12751.20
11	Disc Insulator 11 KV 45 KN	No.	48	280.60	13468.80
12	Strain Hardware forWeasel/Squirrel	Set	24	205.16	4923.84
13	AAC 55 mm ²	Rmt	3150	34.54	108802.46
14	H.T.Stay Set	Set	8	807.30	6458.40
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
16	Earthing Sets H.T	Set	15	461.70	6925.50
17	G.I.Barbed Wire 'A' type.	Kg.	66	80.34	5302.28
18	Danger Board in yard.	No.	15	57.50	862.50
19	Black Bituminous Paint	Ltr.	6	97.75	586.50
20	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
21	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
22	Concreting ration 1:3:6	Cmt.	17.5	3935.10	68864.25
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
24	Sundries	LS	1	885.50	885.50
25	Wedge connectors				
a)	RABIT To RABIT or equivalent AAC	No	24	131.23	3149.49
Cost of material					517031.65

1	Erection cost on material	15.00%	77555	
2	Contractor supervision charges on material	5.00%	25852	
Sub-Total			620438	
3	Contractor's Profit	5.00%	31022	
Sub-Total			651460	
4	Transportation on material	4.00%	20681	
5	T&P on material cost	1.00%	5170	
6	Contingencies on material	2.00%	10341	
Service Cost			1442518	
Sub-Total			687652	
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1375	
Sub-Total			689027	
Labour Cess (on Total Works Cost instead of only Material Cost)				
8		1.00%	6890	
9	Insurance	1.00%	6890	
10	Turnkey Charges	0.00%	0	
Total				702808

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	1063586
Total Cost of the Estimate	1063586	702801

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°
- 3) 2 Strut support
- 4) 5 Spans carpet guarding.
- 5) Average span lengthe - 70 mtrs.
- 6) Conceriting for all poles, struts & stages. (1:4:8)

Item Code No.831					
Pin type, 22 KV, AAAC 55 mm ² , conductor on 116 X 100 mm, 11 mtr long RSJ Poles					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	15	15269.85	229047.75
2	RSJ 116x100, 10 m long	No.	2	13882.05	27764.10
3	MS Channel 100x50x6 mm	Kg.	177	69.93	12377.61
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
6	M.S. Flats(50 X 10mm)	Kg.	34	65.48	2226.15
7	22 KV V cross arm with clamp	No.	11	1223.10	13454.10
8	22 KV Top Fitting	No.	11	515.70	5672.70
9	G.I.Nut Bolts	Kg.	80	111.92	8953.20
10	22 KV Pin Insulators with G.I. Pins	No.	33	386.40	12751.20
11	Disc Insulator 11 KV 45 KN	No.	48	280.60	13468.80
12	Strain Hardware forWeasel/Squirrel	Set	24	205.16	4923.84
13	AAAC 55 mm ²	Rmt	3150	34.54	108802.46
14	H.T.Stay Set	Set	8	807.30	6458.40
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
16	Earthing Sets H.T	Set	15	461.70	6925.50
17	G.I.Barbed Wire 'A' type.	Kg.	66	80.34	5302.28
18	Danger Board in yard.	No.	15	57.50	862.50
19	Black Bituminous Paint	Ltr.	6	97.75	586.50
20	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
21	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
22	Concreting ration 1:3:6	Cmt.	17.5	3935.10	68864.25
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
24	Sundries	LS	1	885.50	885.50
25	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	131.23	3149.49
Cost of material					564239.80

1	Erection cost on material	15.00%	84636
2	Contractor supervision charges on material	5.00%	28212
Sub-Total			677088
3	Contractor's Profit	5.00%	33854
Sub-Total			710942
4	Transportation on material	4.00%	22570
5	T&P on material cost	1.00%	5642
6	Contingencies on material	2.00%	11285
Service Cost			1574229
Sub-Total			750439
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1501
Sub-Total			751940
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	7519
9	Insurance	1.00%	7519
10	Turnkey Charges	0.00%	0
Total			766979

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	1160698
Total Cost of the Estimate	1160698	766971

Assumption:

- 4- cut points (including 1- rightangle cut point in 1 km.)
- 2- line deviations upto 60°
- 2 Strut support
- 5 Spans carpet guarding.
- Average span length - 70 mtrs.
- Concreting for all poles, struts & stages. (1:4:8)

Item Code No.832					
Pin type, 22 KV, ACSR Weasel conductor on 116 X 100 mm,9 mtr long RSJ Poles					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	15	12492.90	187393.50
2	RSJ 116x100, 8 m long	No.	2	11105.10	22210.20
3	MS Channel 100x50x6 mm	Kg.	177	69.93	12377.61
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
6	M.S. Flats(50 X 10mm)	Kg.	34	65.48	2226.15
7	22 KV V cross arm with clamp	No.	11	1223.10	13454.10
8	22 KV Top Fitting	No.	11	515.70	5672.70
9	G.I.Nut Bolts	Kg.	80	111.92	8953.20
10	22 KV Pin Insulators with G.I. Pins	No.	33	386.40	12751.20
11	Disc Insulator 11 KV 45 KN	No.	48	280.60	13468.80
12	Strain Hardware forWeasel/Squirrel	Set	24	205.16	4923.84
13	ACSR Weasel	Rmt	3150	23.27	73298.30
14	H.T.Stay Set	Set	8	807.30	6458.40
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
16	Earthing Sets H.T	Set	15	461.70	6925.50
17	G.I.Barbed Wire `A' type.	Kg.	66	80.34	5302.28
18	Danger Board in yard.	No.	15	57.50	862.50
19	Black Bituminous Paint	Ltr.	6	97.75	586.50
20	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
21	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
22	Concreting ration 1:3:6	Cmt.	17.5	3935.10	68864.25
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
24	Sundries	LS	1	885.50	885.50
25	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAC	No	24	131.23	3149.49
Cost of material					481527.48

1	Erection cost on material	15.00%	72229
2	Contractor supervision charges on material	5.00%	24076
Sub-Total			577833
3	Contractor's Profit	5.00%	28892
Sub-Total			606725
4	Transportation on material	4.00%	19261
5	T&P on material cost	1.00%	4815
6	Contingencies on material	2.00%	9631
Service Cost			1343462
Sub-Total			640432
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1281
Sub-Total			641712
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	6417
9	Insurance	1.00%	6417
10	Turnkey Charges	0.00%	0
Total			654547

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	105.71%
Total Cost of the Estimate	990550	654540

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60°
- 3) 2 Strut support
- 4) 5 Spans carpet guarding.
- 5) Average span lengthe - 70 mtrs.
- 6) Conceriting for all poles, struts & stages. (1:4:8)

Item Code No. 0901					
11 KV Pin type line with ACSR weasel Conductor & 200 Kg PSC Poles					
Wind Pressure Zone: 50/75/100 Kg./m ²					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	PSC Pole 9 Mtr (200 KG)	No.	18	2712.00	48816.00
2	M.S. Flats(50 X 10mm)	Kg.	39	65.48	2553.53
3	11 KV V cross arm with clamp	No.	12	862.65	10351.80
4	11 KV Top fitting with clamp	No.	12	122.85	1474.20
5	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
6	11 kv guarding channel MS 75x40	Kg.	104	69.93	7272.72
7	Disc Insulator 11 KV 70 KN	No.	24	310.01	7440.31
8	11 kv Pin Insulators with G.I. Pins	No.	42	108.66	4563.78
9	ACSR Weasel	Rmt	3150	23.27	73298.30
10	Strain Hardware for Weasel/Squirrel	Set	24	205.16	4923.84
11	Sleeve Joints	No.	3	132.25	396.75
12	H.T.Stay Set	No.	8	807.30	6458.40
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
14	Earthing Sets H.T	No	18	461.70	8310.60
15	G.I.Barbed Wire 'A' type.	Kg.	30	80.34	2410.13
16	Danger Board in yard.	No.	18	57.50	1035.00
17	Black Bituminus Paint	Ltr.	6	97.75	586.50
18	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
19	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
21	Concreting ration 1:3:6	LS	1	3935.10	3935.10
22	Sundries	LS	2	885.50	1771.00
23	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	131.23	3149.49
Cost of material					215475.96

1	Erection cost on material	15.00%	32321
2	Contractor supervision charges on material	5.00%	10774
Sub-Total			258571
3	Contractor's Profit	5.00%	12929
Sub-Total			271500
4	Transportation on material	4.00%	8619
5	T&P on material cost	1.00%	2155
6	Contingencies on material	2.00%	4310
Service Cost			601178
Sub-Total			286583
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	573
Sub-Total			287156
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2872
9	Insurance	1.00%	2872
10	Turnkey Charges	0.00%	0

Total **292899**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	443256	292896
Total Cost of the Estimate	443256	292896

Cost data for 1.0 Km. pin type 11 KV line in town with ACSR Weasel conductor on RSJ Pole.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	17	15269.85	259587.45
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	11 kv guarding channel MS 75x40	Kg.	104	69.93	7272.72
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
6	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
7	11 KV V cross arm with clamp	No.	13	862.65	11214.45
8	11 KV Top fitting with clamp	No.	13	122.85	1597.05
9	11 kv Pin Insulators with G.I. Pins	No.	39	108.66	4237.80
10	Disc Insulator 11 KV 70 KN	No.	24	310.01	7440.31
11	Strain Hardware for 34 Sq.mm AAAC	Set	24	161.00	3864.00
12	ACSR Weasel	Rmt	3150	23.27	73298.30
13	H.T.Stay Set	Set	8	807.30	6458.40
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
15	Earthing Sets H.T	Set	17	461.70	7848.90
16	G.I.Barbed Wire 'A' type.	Kg.	66	80.34	5302.28
17	Danger Board in yard.	No.	17	57.50	977.50
18	Black Bituminus Paint	Ltr.	6	97.75	586.50
19	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
20	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
21	Concreting ration 1:3:6	Cmt.	17	3935.10	66896.70
22	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
23	G.I.Nut Bolts	Kg.	80	111.92	8953.20
24	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	131.23	3149.49
Cost of material					527856.88

1	Erection cost on material	15.00%	79179
2	Contractor supervision charges on material	5.00%	26393
Sub-Total			633428
3	Contractor's Profit	5.00%	31671
Sub-Total			665100
4	Transportation on material	4.00%	21114
5	T&P on material cost	1.00%	5279
6	Contingencies on material	2.00%	10557
Service Cost			1472721
Sub-Total			702050
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1404
Sub-Total			703454
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	7035
9	Insurance	1.00%	7035
10	Turnkey Charges	0.00%	0

Total

717523

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1085854	717516
Total Cost of the Estimate	1085854	717516

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) 2- line deviations upto 60 °
- 3) 2 Strut support
- 4) Average span lengthe - 60 mtrs.
- 5) Conceriting for all poles, struts & stages. (1:4:8)

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 152x152, 11 m long	No.	17	24630.75	418722.75
2	RSJ 116x100, 10 m long	No.	2	13882.05	27764.10
3	11 kv guarding channel MS 75x40	Kg.	104	69.93	7272.72
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	11 KV V cross arm with clamp	No.	13	862.65	11214.45
6	11 KV Top fitting with clamp	No.	13	122.85	1597.05
7	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
8	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	11 kv Pin Insulators with G.I. Pins	No.	39	108.66	4237.80
11	Disc Insulator 11 KV 70 KN	No.	24	310.01	7440.31
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	369.91	8877.82
13	AAAC 100 mm2	Rmt	3150	66.69	210080.87
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T.Stay Set	Set	8	807.30	6458.40
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
17	Earthing Sets H.T	Set	17	461.70	7848.90
18	G.I.Barbed Wire 'A' type.	Kg.	71	80.34	5703.96
19	Danger Board in yard.	No.	17	57.50	977.50
20	Concreting ration 1:3:6	Cmt.	18	3935.10	70831.80
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
22	Black Bituminous Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
Cost of material					850572.71

1	Erection cost on material	15.00%	127586
2	Contractor supervision charges on material	5.00%	42529
Sub-Total			1020687
3	Contractor's Profit	5.00%	51034
Sub-Total			1071722
4	Transportation on material	4.00%	34023
5	T&P on material cost	1.00%	8506
6	Contingencies on material	2.00%	17011
Service Cost			2373098
Sub-Total			1131262
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	2263
Sub-Total			1133524
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	11335
9	Insurance	1.00%	11335
10	Turnkey Charges	0.00%	0

Total

1156195

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1749713	1156183
Total Cost of the Estimate	1749713	1156183

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Concentering for all poles, struts & stages. (1:4:8)
- 4) 4 strut support considered.

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 10 m long	No.	17	13882.05	235994.85
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	11 kv guarding channel MS 75x40	Kg.	104	69.93	7272.72
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
6	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
7	11 KV V cross arm with clamp	No.	13	862.65	11214.45
8	11 KV Top fitting with clamp	No.	13	122.85	1597.05
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	11 kv Pin Insulators with G.I. Pins	No.	39	108.66	4237.80
11	Disc Insulator 11 KV 70 KN	No.	24	310.01	7440.31
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	369.91	8877.82
13	AAAC 100 mm2	Rmt	3150	66.69	210080.87
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T.Stay Set	Set	8	807.30	6458.40
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
17	Earthing Sets H.T	Set	17	461.70	7848.90
18	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
19	Danger Board in yard.	No.	17	57.50	977.50
20	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
22	Black Bituminous Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
Cost of material					673418.74

1	Erection cost on material	15.00%	101013
2	Contractor supervision charges on material	5.00%	33671
Sub-Total			808102
3	Contractor's Profit	5.00%	40405
Sub-Total			848508
4	Transportation on material	4.00%	26937
5	T&P on material cost	1.00%	6734
6	Contingencies on material	2.00%	13468
Service Cost			1878838
Sub-Total			895647
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	1791
Sub-Total			897438
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	8974
9	Insurance	1.00%	8974
10	Turnkey Charges	0.00%	0
Total			915387

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1385290	915378
Total Cost of the Estimate	1385290	915378

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 2strut support considered.

Cost data for 11 KV Single circuit Pin type with 55sq.mm AAAC lines on 100x116 mm 9 mtr RSJ poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	17	12492.90	212379.30
2	RSJ 116x100, 8 m long	No.	2	11105.10	22210.20
3	11 kv guarding channel MS 75x40	Kg.	104	69.93	7272.72
4	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
5	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
6	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
7	11 KV V cross arm with clamp	No.	13	862.65	11214.45
8	11 KV Top fitting with clamp	No.	13	122.85	1597.05
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	11 kv Pin Insulators with G.I. Pins	No.	39	108.66	4237.80
11	Disc Insulator 11 KV 70 KN	No.	24	310.01	7440.31
12	Strain Hardware for 55 Sq.mm AAAC	Set	24	161.00	3864.00
13	AAAC 55 mm2	Rmt	3150	34.54	108802.46
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T.Stay Set	Set	8	807.30	6458.40
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
17	Earthing Sets H.T	Set	17	461.70	7848.90
18	G.I.Barbed Wire 'A' type.	Kg.	71	80.34	5703.96
19	Danger Board in yard.	No.	17	57.50	977.50
20	Concreting ration 1:3:6	Cmt.	18	3935.10	70831.80
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
22	Black Bituminous Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	131.23	3149.49
Cost of material					520115.48

1	Erection cost on material	15.00%	78017
2	Contractor supervision charges on material	5.00%	26006
Sub-Total			624139
3	Contractor's Profit	5.00%	31207
Sub-Total			655346
4	Transportation on material	4.00%	20805
5	T&P on material cost	1.00%	5201
6	Contingencies on material	2.00%	10402
Service Cost			1451122
Sub-Total			691754
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	1384
Sub-Total			693137
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	6931
9	Insurance	1.00%	6931
10	Turnkey Charges	0.00%	0

Total **707000**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1069930	706993
Total Cost of the Estimate	1069930	706993

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 4 strut support considered.

Item Code No. 0908
Cost data for 11 KV Single circuit Pin type with 55sq.mm AAAC lines on 100x116 mm 9 mtr PSC poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	PSC Pole 9 Mtr (200 KG)	No.	18	2712.00	48816.00
2	11 kv guarding channel MS 75x40	Kg.	104	69.93	7272.72
3	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
4	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
5	11 KV V cross arm with clamp	No.	12	862.65	10351.80
6	11 KV Top fitting with clamp	No.	12	122.85	1474.20
7	M.S. Flats(50 X 10mm)	Kg.	39	65.48	2553.53
8	11 kv Pin Insulators with G.I. Pins	No.	42	108.66	4563.78
9	Disc Insulator 11 KV 70 KN	No.	24	310.01	7440.31
10	Strain Hardware for 55 Sq.mm AAAC	Set	24	161.00	3864.00
11	AAAC 55 mm2	Rmt	3150	34.54	108802.46
12	Sleeve Joints	No.	3	132.25	396.75
13	H.T.Stay Set	Set	8	807.30	6458.40
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
15	Earthing Sets H.T	Set	18	461.70	8310.60
16	G.I.Barbed Wire 'A' type.	Kg.	71	80.34	5703.96
17	Danger Board in yard.	No.	18	57.50	1035.00
18	Concreting ration 1:3:6	Cmt.	18	3935.10	70831.80
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
20	Black Bituminus Paint	Ltr.	6	97.75	586.50
21	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
22	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
23	G.I.Nut Bolts	Kg.	90	111.92	10072.35
24	Sundries	LS	1	885.50	885.50
25	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	131.23	3149.49
Cost of material					334332.62

1	Erection cost on material	15.00%	50150
2	Contractor supervision charges on material	5.00%	16717
Sub-Total			401199
3	Contractor's Profit	5.00%	20060
Sub-Total			421259
4	Transportation on material	4.00%	13373
5	T&P on material cost	1.00%	3343
6	Contingencies on material	2.00%	6687
Service Cost			932788
Sub-Total			444662
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	889
Sub-Total			445552
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4456
9	Insurance	1.00%	4456
10	Turnkey Charges	0.00%	0

Total **454463**

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	687756
Total Cost of the Estimate	687756	454458

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)

Item Code No. 0909					
Cost for 1.0 Km. Suspension type 11 KV line (for feeder) with AAAC 100 sqmm and RSJ 100 X 116 mm - 11 mtr. Long.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	17	15269.85	259587.45
2	RSJ 116x100, 10 m long	No.	2	13882.05	27764.10
3	M.S.Channel 75x40x6 mm	Kg.	524	69.93	36643.32
4	MS angle 50x50x6 mm	Kg.	248	69.93	17342.64
5	M.S. Flats(50 X 10mm)	Kg.	107	65.48	7005.83
6	Disc Insulator 11 KV 70 KN	No.	63	310.01	19530.81
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	369.91	8877.82
8	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	Set	39	258.32	10074.66
9	AAAC 100 mm2	Rmt	3150	66.69	210080.87
10	Sieve Joints	No.	3	132.25	396.75
11	H.T.Stay Set	Set	8	807.30	6458.40
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
13	Earthing Sets H.T	Set	17	461.70	7848.90
14	G.I.Barbed Wire 'A' type.	Kg.	71	80.34	5703.96
15	Danger Board in yard.	No.	17	57.50	977.50
16	Concreting ration 1:3:6	Cmt.	18	3935.10	70831.80
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
18	Black Bituminus Paint	Ltr.	6	97.75	586.50
19	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
20	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
21	G.I.Nut Bolts	Kg.	90	111.92	10072.35
22	Sundries	LS	1	885.50	885.50
23	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
Cost of material					734283.34
1	Erection cost on material		15.00%		110143
2	Contractor supervision charges on material		5.00%		36714
Sub-Total					881140
3	Contractor's Profit		5.00%		44057
Sub-Total					925197
4	Transportation on material		4.00%		29371
5	T&P on material cost		1.00%		7343
6	Contingencies on material		2.00%		14686
Service Cost					2048651
Sub-Total					976597
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		1953
Sub-Total					978550
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		9786
9	Insurance		1.00%		9786
10	Turnkey Charges		0.00%		0
Total					998121

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	1510494
Total Cost of the Estimate	1510494	998111

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 4 strut support considered.

(A) HT Line :

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	17	15269.85	259587.45
2	RSJ 116x100, 10 m long	No.	2	13882.05	27764.10
3	M.S.Channel 75x40x6 mm	Kg.	524	69.93	36643.32
4	MS angle 50x50x6 mm	Kg.	248	69.93	17342.64
5	M.S. Flats(50 X 10mm)	Kg.	107	65.48	7005.83
6	Disc Insulator 11 KV 70 KN	No.	63	310.01	19530.81
7	Strain Hardware for 55 Sq.mm AAAC	Set	24	161.00	3864.00
8	Suspension Hardware for 55 sq mm Condr.	No.	39.00	172.06	6710.46
9	AAAC 55 mm2	Rmt	3150	34.54	108802.46
10	Sleve Joints	No.	3	132.25	396.75
11	H.T.Stay Set	Set	8	807.30	6458.40
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
13	Earthing Sets H.T	Set	17	461.70	7848.90
14	G.I.Barbed Wire 'A' type.	Kg.	71	80.34	5703.96
15	Danger Board in yard.	No.	17	57.50	977.50
16	Concreting ration 1:3:6	Cmt.	18	3935.10	70831.80
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
18	Black Bituminous Paint	Ltr.	6	97.75	586.50
19	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
20	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
21	G.I.Nut Bolts	Kg.	90	111.92	10072.35
22	Sundries	LS	1	885.50	885.50
23	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	131.23	3149.49
Cost of material					612359.26

1	Erection cost on material	15.00%	91854
2	Contractor supervision charges on material	5.00%	30618
Sub-Total			734831
3	Contractor's Profit	5.00%	36742
Sub-Total			771573
4	Transportation on material	4.00%	24494
5	T&P on material cost	1.00%	6124
6	Contingencies on material	2.00%	12247
Service Cost			1708482
Sub-Total			814438
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1629
Sub-Total			816067
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	8161
9	Insurance	1.00%	8161
10	Turnkey Charges	0.00%	0
Total			832388

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1259684	832380
Total Cost of the Estimate	1259684	832380

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 2 strut support considered.

Item Code No. 0911					
11 kV Single Circuit Express/Highway Crossing with 55 sqmm AAAC line on100X116MM, 11 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 11 m long	No.	4	15269.85	61079.40
2	M.S.Channel 75x40x6 mm	Kg.	160	69.93	11188.80
3	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
4	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
5	AAAC 55 mm2	m	100	34.54	3454.05
6	11 kV Pin Insulators with G.I. Pins	NO.	6	108.66	651.97
7	Disc Insulator 11 KV 45 KN	NO.	12	280.60	3367.20
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
9	H.T.Stay Set	No	4	807.30	3229.20
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
11	Earthing Sets H.T	No.	4	461.70	1846.80
12	Danger Board in yard.	No.	4	57.50	230.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
14	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
15	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
16	Black Bituminous Paint	Ltr.	1	97.75	97.75
17	Red Oxide Paint for 2 coats	Ltr.	3	97.75	293.25
18	Aluminium Paint for 1 coat	Ltr.	2	129.95	259.90
19	Sundries	L.S.	1	885.50	885.50
20	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	12	131.23	1574.75
Cost of material					115227.47
1	Erection cost on material		15.00%		17284
2	Contractor supervision charges on material		5.00%		5761
Sub-Total					138273
3	Contractor's Profit		5.00%		6914
Sub-Total					145187
4	Transportation on material		4.00%		4609
5	T&P on material cost		1.00%		1152
6	Contingencies on material		2.00%		2305
Service Cost					321485
Sub-Total					153253
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		307
Sub-Total					153559
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		1536
9	Insurance		1.00%		1536
10	Turnkey Charges		0.00%		0
Total					156630

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	237034
Total Cost of the Estimate	237034	156629

Item Code No. 0912					
11 kV Single Circuit Express/Highway Crossing with 100 sqmm AAAC line on 152X152MM, 13 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	160	69.93	11188.80
3	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
4	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
5	AAAC 100 mm ²	m	100	66.69	6669.23
6	11 kV Pin Insulators with G.I. Pins	NO.	6	108.66	651.97
7	Disc Insulator 11 KV 45 KN	NO.	12	280.60	3367.20
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	369.91	4438.91
9	H.T.Stay Set	No	4	807.30	3229.20
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
11	Earthing Sets H.T	No.	4	461.70	1846.80
12	Danger Board in yard.	No.	4	57.50	230.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
14	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
15	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
16	Black Bituminous Paint	Ltr.	2	97.75	195.50
17	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
18	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
19	Sundries	L.S.	1	885.50	885.50
20	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	642.38	7708.57
Cost of material					182802.23

1	Erection cost on material	15.00%	27420
2	Contractor supervision charges on material	5.00%	9140
Sub-Total			219363
3	Contractor's Profit	5.00%	10968
Sub-Total			230331
4	Transportation on material	4.00%	7312
5	T&P on material cost	1.00%	1828
6	Contingencies on material	2.00%	3656
Service Cost			510018
Sub-Total			243127
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	486
Sub-Total			243613
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2436
9	Insurance	1.00%	2436
10	Turnkey Charges	0.00%	0
Total			248485

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	105.71%
Total Cost of the Estimate	376042	248483

Item Code No. 0913					
Cost Data for laying of 1 Km. 11 KV 3 C 300 mm 2 XLPE under ground Cable					
Sr.No.	Particulars	Unit	Qty.	RT/U.Rs.	Amount
1	XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	1000.00	1468.62	1468620.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	RCC Tiles (0.6 x 0.5) Mtrs.	No.	940.00	135.20	127088.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 300 sqmm	No	2.00	5289.00	10578.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	No.	2.00	2030.00	4060.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Misc. for XLPE U/G Cable	LS	1.00	1150.00	1150.00
Cost of material					1692481.00

1	Erection cost on material	15.00%		253872
2	Contractor supervision charges on material	5.00%		84624
Sub-Total				2030977
3	Contractor's Profit	5.00%		101549
Sub-Total				2132526
4	Transportation on material	4.00%		67699
5	T&P on material cost	1.00%		16925
6	Contingencies on material	2.00%		33850
Service Cost				4722022
Sub-Total				2251000
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		4502
Sub-Total				2255502
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		22555
9	Insurance	1.00%		22555
10	Turnkey Charges	0.00%		0
Total				2300612

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	3481603	2300589
Total Cost of the Estimate	3481603	2300589

Item Code No.0915																	
Cost Data for laying of 1 Km. 11 KV 3 C 185 mm 2 XLPE under ground Cable																	
Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount												
1	XLPE Cable 11 KV, 3 C / 185 mm sq.	Rmt	1000.00	1158.30	1158300.00												
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00												
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00												
4	11 kV heat shrinkable Straight through joint kit for 3 C X 185 sqmm	No.	2.00	5043.00	10086.00												
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 185 sqmm	No.	2.00	1907.00	3814.00												
6	Sand	Cmt	250.00	255.30	63825.00												
7	Misc. for XLPE U/G Cable	LS	1.00	1150.00	1150.00												
Cost of material					1388755.00												
1	Erection cost on material		15.00%		208313												
2	Contractor supervision charges on material		5.00%		69438												
Sub-Total					1666506												
3	Contractor's Profit		5.00%		83325												
Sub-Total					1749831												
4	Transportation on material		4.00%		55550												
5	T&P on material cost		1.00%		13888												
6	Contingencies on material		2.00%		27775												
Service Cost					3874626												
Sub-Total					1847044												
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		3694												
Sub-Total					1850738												
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		18507												
9	Insurance		1.00%		18507												
10	Turnkey Charges		0.00%		0												
Total					1887753												
				<table border="1"> <thead> <tr> <th rowspan="2">Particulars</th> <th>DPR Amount</th> <th>Tender/ Estimate Amount</th> </tr> </thead> <tbody> <tr> <td></td> <td>105.71%</td> <td>35.930%</td> </tr> <tr> <td>Cost with overheads on Material</td> <td>2856808</td> <td>1887735</td> </tr> <tr> <td>Total Cost of the Estimate</td> <td>2856808</td> <td>1887735</td> </tr> </tbody> </table>		Particulars	DPR Amount	Tender/ Estimate Amount		105.71%	35.930%	Cost with overheads on Material	2856808	1887735	Total Cost of the Estimate	2856808	1887735
Particulars	DPR Amount	Tender/ Estimate Amount															
		105.71%	35.930%														
Cost with overheads on Material	2856808	1887735															
Total Cost of the Estimate	2856808	1887735															

Estimate for laying of 1 Km. 11 KV 3 C 95 mm 2 XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	1000.00	799.20	799200.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	No.	2.00	4182.00	8364.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No.	2.00	1459.00	2918.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Misc. for XLPE U/G Cable	LS	1.00	1150.00	1150.00
Cost of material					1027037.00

1	Erection cost on material	15.00%	154056
2	Contractor supervision charges on material	5.00%	51352
Sub-Total			1232444
3	Contractor's Profit	5.00%	61622
Sub-Total			1294067
4	Transportation on material	4.00%	41081
5	T&P on material cost	1.00%	10270
6	Contingencies on material	2.00%	20541
Service Cost			2865433
Sub-Total			1365959
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2732
Sub-Total			1368691

8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	13687
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9	Insurance	1.00%	13687
10	Turnkey Charges	0.00%	0

Total **1396065**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	2112718	1396051
Total Cost of the Estimate	2112718	1396051

Item Code No. 0917					
Conversion of 11 kV line by 3 core 185 sqmm Cable					
Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 11 KV, 3 C / 185 mm sq.	Rmt	1000.00	1158.30	1158300.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 185 sqmm	No	2.00	5043.00	10086.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 185 sqmm	No.	2.00	1907.00	3814.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Misc. for XLPE U/G Cable	LS	1.00	1150.00	1150.00

Cost of material			1388755.00
1	Erection cost on material	15.00%	208313
2	Contractor supervision charges on material	5.00%	69438
Sub-Total			1666506
3	Contractor's Profit	5.00%	83325
Sub-Total			1749831
4	Transportation on material	4.00%	55550
5	T&P on material cost	1.00%	13888
6	Contingencies on material	2.00%	27775
Service Cost			3874626
Sub-Total			1847044
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	3694
Sub-Total			1850738
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	18507
9	Insurance	1.00%	18507
10	Turnkey Charges	0.00%	0

Total			1887753
Particulars	DPR Amount	Tender/ Estimate Amount	
	105.71%	35.930%	
Cost with overheads on Material	2856808	1887735	
Total Cost of the Estimate	2856808	1887735	

Item Code No. 0918					
Conversion of 11 kV line by 3 core 95 sqmm Cable					
Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	1000.00	799.20	799200.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	No	2.00	4182.00	8364.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No.	2.00	1459.00	2918.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Misc. for XLPE U/G Cable	LS	1.00	1150.00	1150.00

Cost of material			1027037.00
1	Erection cost on material	15.00%	154056
2	Contractor supervision charges on material	5.00%	51352
Sub-Total			1232444
3	Contractor's Profit	5.00%	61622
Sub-Total			1294067
4	Transportation on material	4.00%	41081
5	T&P on material cost	1.00%	10270
6	Contingencies on material	2.00%	20541
Service Cost			2865433
Sub-Total			1365959
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2732
Sub-Total			1368691
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	13687
9	Insurance	1.00%	13687
10	Turnkey Charges	0.00%	0

Total			1396065
Particulars	DPR Amount	Tender/ Estimate Amount	
	105.71%	35.930%	
Cost with overheads on Material	2112718	1396051	
Total Cost of the Estimate	2112718	1396051	

Cost data for Major river crossing with 55 sqmm overhead conductor on 152X152MM,13 mtr RSJ pole as per sketch for one span of 100 mtr.

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	75	69.93	5244.75
3	MS Channel 100x50x6 mm	Kg.	110	69.93	7692.30
4	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
6	AAAC 55 mm2	Rmt	330	34.54	11398.35
7	11 kV Pin Insulators with G.I. Pins	NO.	6	108.66	651.97
8	Disc Insulator 11 KV 45 KN	NO.	12	280.60	3367.20
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	369.91	4438.91
10	H.T.Stay Set	No	4	807.30	3229.20
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Danger Board in yard.	No.	4	57.50	230.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
15	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
16	Black Bituminous Paint	Ltr.	2	97.75	195.50
17	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
18	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
19	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
20	Sundries	L.S.	1	885.50	885.50
21	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	12	131.23	1574.75

Cost of material

183145.78

1	Erection cost on material	15.00%	27472
2	Contractor supervision charges on material	5.00%	9157
Sub-Total			219775
3	Contractor's Profit	5.00%	10989
Sub-Total			230764
4	Transportation on material	4.00%	7326
5	T&P on material cost	1.00%	1831
6	Contingencies on material	2.00%	3663
Service Cost			510977
Sub-Total			243584
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	487
Sub-Total			244071
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2441
9	Insurance	1.00%	2441
10	Turnkey Charges	0.00%	0
Total			248952

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	376749	248950
Total Cost of the Estimate	376749	248950

Item Code No. 0920					
DOUPLE POLE STRUCTURE(cut point) OF- 11 KV LINE USING13 M LONG RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	2	29108.70	58217.40
2	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
3	MS Channel 100x50x6 mm	Kg.	110	69.93	7692.30
4	M.S.Channel 75x40x6 mm	Kg.	75	69.93	5244.75
5	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
7	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
8	H.T.Stay Set	No.	2	807.30	1614.60
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	71.81	1795.31
10	Earthing Sets H.T	No	2	461.70	923.40
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	71.75	430.50
12	G.I.Barbed Wire 'A' type.	kg.	7	80.34	562.36
13	Danger Board in yard.	No.	2	57.50	115.00
14	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
15	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
16	Black Bituminous Paint	Ltr.	2	97.75	195.50
17	Concreting ration 1:3:6	Cmt.	2	3935.10	7870.20
18	Sundries	L.S.	1	885.50	885.50
Cost of material					94883.90

1	Erection cost on material	15.00%	14233
2	Contractor supervision charges on material	5.00%	4744
Sub-Total			
3	Contractor's Profit	5.00%	5693
Sub-Total			
4	Transportation on material	4.00%	3795
5	T&P on material cost	1.00%	949
6	Contingencies on material	2.00%	1898
Service Cost			
Sub-Total			
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	252
Sub-Total			
126448			
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1264
9	Insurance	1.00%	1264
10	Turnkey Charges	0.00%	0
Total			
128977			

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	195186	128976
Total Cost of the Estimate	195186	128976

Item Code No. 0921					
DOUPLE POLE STRUCTURE(cut point) OF- 11 KV LINE USING11 M LONG RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	2	24630.75	49261.50
2	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
3	MS Channel 100x50x6 mm	Kg.	110	69.93	7692.30
4	M.S.Channel 75x40x6 mm	Kg.	75	69.93	5244.75
5	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
7	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
8	H.T.Stay Set	No.	2	807.30	1614.60
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	71.81	1795.31
10	Earthing Sets H.T	No	2	461.70	923.40
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	71.75	430.50
12	G.I.Barbed Wire 'A' type.	kg.	7	80.34	562.36
13	Danger Board in yard.	No.	2	57.50	115.00
14	Black Bituminous Paint	Ltr.	2	97.75	195.50
15	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
16	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
17	Concreting ration 1:3:6	Cmt.	2	3935.10	7870.20
18	Sundries	L.S.	1	885.50	885.50
Cost of material					85928.00

1	Erection cost on material	15.00%		12889
2	Contractor supervision charges on material	5.00%		4296
Sub-Total				
3	Contractor's Profit	5.00%		5156
Sub-Total				
4	Transportation on material	4.00%		3437
5	T&P on material cost	1.00%		859
6	Contingencies on material	2.00%		1719
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		229
Sub-Total				
114513				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		1145
9	Insurance	1.00%		1145
10	Turnkey Charges	0.00%		0
Total				
116803				

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	176762	116802
Total Cost of the Estimate	176762	116802

Item Code No. 0922					
DOUPLE POLE STRUCTURE(cut point) OF- 11 KV LINE USING11 M LONG RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
2	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
3	MS Channel 100x50x6 mm	Kg.	110	69.93	7692.30
4	M.S.Channel 75x40x6 mm	Kg.	75	69.93	5244.75
5	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
7	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
8	H.T.Stay Set	No.	2	807.30	1614.60
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	71.81	1795.31
10	Earthing Sets H.T	No	2	461.70	923.40
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	71.75	430.50
12	G.I.Barbed Wire 'A' type.	kg.	7	80.34	562.36
13	Danger Board in yard.	No.	2	57.50	115.00
14	Black Bituminous Paint	Ltr.	2	97.75	195.50
15	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
16	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
17	Concreting ration 1:3:6	Cmt.	2	3935.10	7870.20
18	Sundries	L.S.	1	885.50	885.50
Cost of material					67206.20

1	Erection cost on material	15.00%		10081
2	Contractor supervision charges on material	5.00%		3360
Sub-Total				
3	Contractor's Profit	5.00%		4032
Sub-Total				
4	Transportation on material	4.00%		2688
5	T&P on material cost	1.00%		672
6	Contingencies on material	2.00%		1344
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		179
Sub-Total				
89563				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		896
9	Insurance	1.00%		896
10	Turnkey Charges	0.00%		0
Total				
91354				

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	138250	91353
Total Cost of the Estimate	138250	91353

Item code No. 0923

SINGLE POLE CUT POINT STRUCTURE FOR 11KV LINE ON RSJ 9 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	1	12492.90	12492.90
2	M.S.Channel 75x40x6 mm	Kg.	40	69.93	2797.20
3	MS angle 50x50x6 mm	Kg.	25	69.93	1748.25
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
5	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
6	H.T.Stay Set	No.	2	807.30	1614.60
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	71.81	933.56
8	Earthing Sets H.T	No.	1	461.70	461.70
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
10	G.I.Barbed Wire `A` type.	Kg.	2	80.34	160.68
11	Danger Board in yard.	No.	1	57.50	57.50
12	Black Bituminus Paint	Ltr.	0.5	97.75	48.88
13	Red Oxide Paint for 2 coats	Ltr.	1.5	97.75	146.63
14	Aluminium Paint for 1 coat	Ltr.	1	129.95	129.95
15	Concreting ration 1:3:6	Cmt.	1.5	3935.10	5902.65
16	Sundries	LS	1	885.50	885.50

Cost of material **31603.03**

1	Erection cost on material	15.00%	4740
2	Contractor supervision charges on material	5.00%	1580
	Sub-Total		37924
3	Contractor's Profit	5.00%	1896
	Sub-Total		39820
4	Transportation on material	4.00%	1264
5	T&P on material cost	1.00%	316
6	Contingencies on material	2.00%	632
	Service Cost		88172
	Sub-Total		42032
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	84
	Sub-Total		42116
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	421
9	Insurance	1.00%	421
10	Turnkey Charges	0.00%	0

Total **42958**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	65011	42958
Total Cost of the Estimate	65011	42958

SINGLE POLE CUT POINT STRUCTURE FOR 11KV LINE ON RSJ 11 M POLE

S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 11 m long	No.	1	24630.75	24630.75
2	M.S.Channel 75x40x6 mm	Kg.	40	69.93	2797.20
3	MS angle 50x50x6 mm	Kg.	25	69.93	1748.25
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
5	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
6	H.T.Stay Set	No.	2	807.30	1614.60
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	71.81	933.56
8	Earthing Sets H.T	No.	1	461.70	461.70
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
10	G.I.Barbed Wire `A` type.	Kg.	2	80.34	160.68
11	Black Bituminous Paint	Ltr.	0.5	97.75	48.88
12	Red Oxide Paint for 2 coats	Ltr.	1.5	97.75	146.63
13	Aluminium Paint for 1 coat	Ltr.	1	129.95	129.95
14	Danger Board in yard.	No.	1	57.50	57.50
15	Concreting ration 1:3:6	Cmt.	1.5	3935.10	5902.65
16	Sundries	LS	1	885.50	885.50

Cost of material **43740.88**

1	Erection cost on material	15.00%	6561
2	Contractor supervision charges on material	5.00%	2187
	Sub-Total		52489
3	Contractor's Profit	5.00%	2624
	Sub-Total		55114
4	Transportation on material	4.00%	1750
5	T&P on material cost	1.00%	437
6	Contingencies on material	2.00%	875
	Service Cost		122037
	Sub-Total		58175
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	116
	Sub-Total		58292
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	583
9	Insurance	1.00%	583
10	Turnkey Charges	0.00%	0

Total **59458**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	89979	59457
Total Cost of the Estimate	89979	59457

Item code No. 0925					
SINGLE POLE CUT POINT STRUCTURE FOR 11KV LINE ON PSC 9 M POLE					
S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	PSC Pole 9 Mtr (200 KG)	No.	1	2712.00	2712.00
2	M.S.Channel 75x40x6 mm	Kg.	40	69.93	2797.20
3	MS angle 50x50x6 mm	Kg.	25	69.93	1748.25
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
5	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
6	H.T.Stay Set	No.	2	807.30	1614.60
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	71.81	933.56
8	Earthing Sets H.T	No.	1	461.70	461.70
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
10	G.I.Barbed Wire `A` type.	Kg.	2	80.34	160.68
11	Danger Board in yard.	No.	1	57.50	57.50
12	Black Bituminus Paint	Ltr.	0.5	97.75	48.88
13	Red Oxide Paint for 2 coats	Ltr.	1.5	97.75	146.63
14	Aluminium Paint for 1 coat	Ltr.	1	129.95	129.95
15	Concreting ration 1:3:6	Cmt.	1.5	3935.10	5902.65
16	Sundries	LS	1	885.50	885.50

Cost of material **21822.13**

1	Erection cost on material	15.00%	3273
2	Contractor supervision charges on material	5.00%	1091
Sub-Total			26187
3	Contractor's Profit	5.00%	1309
Sub-Total			27496
4	Transportation on material	4.00%	873
5	T&P on material cost	1.00%	218
6	Contingencies on material	2.00%	436
Service Cost			60884
Sub-Total			29023
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	58
Sub-Total			29081
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	291
9	Insurance	1.00%	291
10	Turnkey Charges	0.00%	0

Total **29663**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	44890	29663
Total Cost of the Estimate	44890	29663

Item Code No. 0929					
11 KV Single circuit Pin type with 100sq.mm AAAC lines on 100x116 mm 11 mtr RSJ poles					
(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 11 m long	No.	17	15269.85	259587.45
2	RSJ 116x100, 10 m long	No.	2	13882.05	27764.10
3	11 kv guarding channel MS 75x40	Kg.	104	69.93	7272.72
4	11 KV V cross arm with clamp	No.	13	862.65	11214.45
5	11 KV Top fitting with clamp	No.	13	122.85	1597.05
6	M.S.Channel 75x40x6 mm	Kg.	122	69.93	8531.46
7	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
8	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	11 kv Pin Insulators with G.I. Pins	No.	39	108.66	4237.80
11	Disc Insulator 11 KV 70 KN	No.	24	310.01	7440.31
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	369.91	8877.82
13	AAAC 100 mm2	Rmt	3150	66.69	210080.87
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T.Stay Set	Set	8	807.30	6458.40
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	71.81	5745.00
17	Earthing Sets H.T	Set	17	461.70	7848.90
18	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
19	Danger Board in yard.	No.	17	57.50	977.50
20	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	71.75	9327.50
22	Black Bituminous Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
Cost of material					699789.64

1	Erection cost on material	15.00%	104968
2	Contractor supervision charges on material	5.00%	34989
Sub-Total			839748
3	Contractor's Profit	5.00%	41987
Sub-Total			881735
4	Transportation on material	4.00%	27992
5	T&P on material cost	1.00%	6998
6	Contingencies on material	2.00%	13996
Service Cost			1952413
Sub-Total			930720
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1861
Sub-Total			932582
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9326
9	Insurance	1.00%	9326
10	Turnkey Charges	0.00%	0
Total			951233

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1439537	951224
Total Cost of the Estimate	1439537	951224

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 2 strut support considered.

Item Code No. 0933					
Cost Data for Supply, Erection, Testing & Commissioning of HT Pillar					
Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	11 KV Feeder Pillar 4 Way	No.	1.00	91437.60	91437.60
	Cost of material				91437.60
1	Erection cost on material		15.00%		13716
2	Contractor supervision charges on material		5.00%		4572
	Sub-Total				109725
3	Contractor's Profit		5.00%		5486
	Sub-Total				115211
4	Transportation on material		4.00%		3658
5	T&P on material cost		1.00%		914
6	Contingencies on material		2.00%		1829
	Service Cost				255111
	Sub-Total				121612
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		243
	Sub-Total				121855
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		1219
9	Insurance		1.00%		1219
10	Turnkey Charges		0.00%		0
	Total				124292
9	HT Pillar Foundation		1.00	16321.41	16321
	Total Cost of Estimate				140614
	Particulars	DPR Amount	Tender/ Estimate Amount		
	Cost with overheads on Material	188096	124291		
	HT Pillar Foundation	16321	16321		
	Total Cost of the Estimate	204418	140613		

Item Code No. 1001					
22 KV ,25 KVA Dist. Transformer centers on 9 mtrs RSJ poles with MCCB Dist box.					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Distribution T/F 22 / .433 KV 25 KVA O/D	No.	1	94733.75	94733.75
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	22 kV Pin Insulators with G.I. Pins	NO.	3	386.40	1159.20
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	13497.00	13497.00
10	L.A.s 22KV (Gapless type) with disconnecter	Set.	1	2622.00	2622.00
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	22KV H.G.Fuses	Set.	1	5360.40	5360.40
15	22KV A.B.Switch, 400 A	No.	1	17336.40	17336.40
16	Danger Board in yard.	No.	2	57.50	115.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
19	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
20	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
21	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	13303.92	13303.92
22	Sundries	L.S.	1	885.50	885.50
Cost of material					205825.85

1	Erection cost on material	15.00%	30874
2	Contractor supervision charges on material	5.00%	10291
Sub-Total			246991
3	Contractor's Profit	5.00%	12350
Sub-Total			259341
4	Transportation on material	4.00%	8233
5	T&P on material cost	1.00%	2058
6	Contingencies on material	2.00%	4117
Service Cost			574254
Sub-Total			273748
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	547
Sub-Total			274296
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2743
9	Insurance	1.00%	2743
10	Turnkey Charges	0.00%	0

Total **279782**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	423404	279779
Total Cost of the Estimate	423404	279779

Item Code No. 1002					
22 KV ,63 KVA Dist. Transformer centers on 9 mtrs RSJ poles with MCCB Dist box.					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. transformer 63kva,22/0.4kv	No.	1	189212.50	189212.50
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	22 kv Pin Insulators with G.I. Pins	NO.	3	386.40	1159.20
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	13497.00	13497.00
10	L.A.s 22KV (Gapless type) with disconnecter	Set.	1	2622.00	2622.00
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	22KV H.G.Fuses	Set.	1	5360.40	5360.40
15	22KV A.B.Switch, 400 A	No.	1	17336.40	17336.40
16	Danger Board in yard.	No.	2	57.50	115.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
19	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
20	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
21	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	16501.92	16501.92
22	Sundries	L.S.	1	885.50	885.50
Cost of material					303502.60
1	Erection cost on material		15.00%		45525
2	Contractor supervision charges on material		5.00%		15175
Sub-Total					364203
3	Contractor's Profit		5.00%		18210
Sub-Total					382413
4	Transportation on material		4.00%		12140
5	T&P on material cost		1.00%		3035
6	Contingencies on material		2.00%		6070
Service Cost					846772
Sub-Total					403658
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		807
Sub-Total					404466
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		4045
9	Insurance		1.00%		4045
10	Turnkey Charges		0.00%		0
Total					412555

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	624335	412551
Total Cost of the Estimate	624335	412551

Item Code No. 1004					
POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 100KVA, 22/0.433 KV ON RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist.transformer 100kva,22/0.4kv	No.	1	252975.00	252975.00
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	22 kV Pin Insulators with G.I. Pins	NO.	3	386.40	1159.20
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	15386.40	15386.40
10	L.A.s 22KV (Gapless type) with disconnecter	Set.	1	2622.00	2622.00
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	22KV H.G.Fuses	Set.	1	5360.40	5360.40
15	22KV A.B.Switch, 400 A	No.	1	17336.40	17336.40
16	Danger Board in yard.	No.	2	57.50	115.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
19	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
20	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	18873.12	18873.12
22	Sundries	L.S.	1	885.50	885.50
Cost of material					371525.70
1	Erection cost on material		15.00%		55729
2	Contractor supervision charges on material		5.00%		18576
Sub-Total					445831
3	Contractor's Profit		5.00%		22292
Sub-Total					468122
4	Transportation on material		4.00%		14861
5	T&P on material cost		1.00%		3715
6	Contingencies on material		2.00%		7431
Service Cost					1036557
Sub-Total					494129
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		988
Sub-Total					495117
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		4951
9	Insurance		1.00%		4951
10	Turnkey Charges		0.00%		0
Total					505020

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	764266	505015
Total Cost of the Estimate	764266	505015

Item Code No. 1005					
22 KV ,200 KVA Dist. Transformer centers on 100x116mm, 9 mtrs RSJ poles with MCCB Dist box.					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist.transformer 200kva,22/0.4kv	No.	1	398476.00	398476.00
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	22 kV Pin Insulators with G.I. Pins	NO.	3	386.40	1159.20
8	Disc Insulator 11 KV 45 KN	No.	6	280.60	1683.60
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	27244.80	27244.80
11	L.A.s 22KV (Gapless type) with disconnector	Set.	1	2622.00	2622.00
12	H.T.Stay Set	No	4	807.30	3229.20
13	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
14	Earthing Sets H.T	No.	3	461.70	1385.10
15	22KV H.G.Fuses	Set.	1	5360.40	5360.40
16	22KV A.B.Switch, 400 A	No.	1	17336.40	17336.40
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
19	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
20	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
21	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
22	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	32097.12	32097.12
23	Sundries	L.S.	1	885.50	885.50

Cost of material **543792.70**

1	Erection cost on material	15.00%	81569
2	Contractor supervision charges on material	5.00%	27190
Sub-Total			652551
3	Contractor's Profit	5.00%	32628
Sub-Total			685179
4	Transportation on material	4.00%	21752
5	T&P on material cost	1.00%	5438
6	Contingencies on material	2.00%	10876
Service Cost			1517182
Sub-Total			723244
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1446
Sub-Total			724691
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	7247
9	Insurance	1.00%	7247
10	Turnkey Charges	0.00%	0

Total **739185**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1118636	739177
Total Cost of the Estimate	1118636	739177

Item Code No. 1006					
Cost data for Pole mounted Distribution Transformer Sub-station 200 KVA, 22/0.433 kv.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist.transformer 200kva,22/0.4kv	No.	1	398476.00	398476.00
2	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	Kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	Kg.	24	65.48	1571.40
7	22 kv Pin Insulators with G.I. Pins	No.	3	386.40	1159.20
8	Disc Insulator 11 KV 45 KN	No.	6	280.60	1683.60
9	Strain Hardware for 34 Sq.mm AAC	No.	3	161.00	483.00
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	27244.80	27244.80
11	L.A.s 22KV (Gapless type) with disconnector	No.	1	2622.00	2622.00
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	71.81	1149.00
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	22KV H.G.Fuses	Set	1	5360.40	5360.40
16	22KV A.B.Switch, 400 A	No.	1	17336.40	17336.40
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	2.3	3935.10	9050.73
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	32097.12	32097.12
23	Sundries	LS	1	885.50	885.50

Cost of material **549893.08**

1	Erection cost on material	15.00%	82484
2	Contractor supervision charges on material	5.00%	27495
Sub-Total			659872
3	Contractor's Profit	5.00%	32994
Sub-Total			692865
4	Transportation on material	4.00%	21996
5	T&P on material cost	1.00%	5499
6	Contingencies on material	2.00%	10998
Service Cost			1534202
Sub-Total			731358
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1463
Sub-Total			732821
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	7328
9	Insurance	1.00%	7328
10	Turnkey Charges	0.00%	0

Total **747477**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1131185	747470
Total Cost of the Estimate	1131185	747470

Item Code No. 1007					
22 KV ,315 KVA Dist. Transformer centers on 9 mtrs RSJ poles on plinth.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 315 KVA, 22/0.43 kv	No.	1	598906.10	598906.10
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	124	69.93	8671.32
4	M.S.Channel 75x40x6 mm	Kg.	100	69.93	6993.00
5	MS angle 50x50x6 mm	Kg.	86	69.93	6013.98
6	M.S. Flats(50 X 10mm)	Kg.	56	65.48	3666.60
7	22 kv Pin Insulators with G.I. Pins	No.	3	386.40	1159.20
8	Disc Insulator 11 KV 45 KN	No.	6	280.60	1683.60
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	161.00	483.00
10	6 way feeder pillar with ACB	No.	1	74355.60	74355.60
11	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2622.00	2622.00
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	71.81	1149.00
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	22KV H.G.Fuses	Set	1	5360.40	5360.40
16	22KV A.B.Switch, 400 A	No.	1	17336.40	17336.40
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	10.25	3935.10	40334.78
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	41925.12	41925.12
24	Minor Fabrication, etc.				
Cost of material					845157.24

1	Erection cost on material	15.00%	126774
2	Contractor supervision charges on material	5.00%	42258
Sub-Total			1014189
3	Contractor's Profit	5.00%	50709
Sub-Total			1064898
4	Transportation on material	4.00%	33806
5	T&P on material cost	1.00%	8452
6	Contingencies on material	2.00%	16903
Service Cost			2357989
Sub-Total			1124059
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2248
Sub-Total			1126307
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	11263
9	Insurance	1.00%	11263
10	Turnkey Charges	0.00%	0

Total **1148833**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1738573	1148822
Total Cost of the Estimate	1738573	1148822

Cost data for Pole mounted Distribution Transformer Sub-station 315 KVA, 22/0.433 kv.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 315 KVA, 22/0.43 kv	No.	1	598906.10	598906.10
2	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg.	124	69.93	8671.32
4	M.S.Channel 75x40x6 mm	Kg.	100	69.93	6993.00
5	MS angle 50x50x6 mm	Kg.	86	69.93	6013.98
6	M.S. Flats(50 X 10mm)	Kg.	56	65.48	3666.60
7	11 kv Pin Insulators with G.I. Pins	No.	3	108.66	325.98
8	Disc Insulator 11 KV 45 KN	No.	6	280.60	1683.60
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	161.00	483.00
10	6 way feeder pillar with ACB	No.	1	74355.60	74355.60
11	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2622.00	2622.00
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	71.81	1149.00
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	22KV H.G.Fuses	Set	1	5360.40	5360.40
16	22KV A.B.Switch, 400 A	No.	1	17336.40	17336.40
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	2.3	3935.10	9050.73
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	41925.12	41925.12
24	Minor Fabrication, etc.				

Cost of material

818593.88

1	Erection cost on material	15.00%	122789
2	Contractor supervision charges on material	5.00%	40930
	Sub-Total		982313
3	Contractor's Profit	5.00%	49116
	Sub-Total		1031428
4	Transportation on material	4.00%	32744
5	T&P on material cost	1.00%	8186
6	Contingencies on material	2.00%	16372
	Service Cost		2283877
	Sub-Total		1088730
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2177
	Sub-Total		1090907
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	10909
9	Insurance	1.00%	10909
10	Turnkey Charges	0.00%	0

Total

1112725

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1683929	1112715
Total Cost of the Estimate	1683929	1112715

Item Code No. 1009					
Cost data for Plinth mounted Distribution Transformer Sub-station 630 KVA, 22/0.433 kv.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	887224.00	887224.00
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	180	69.93	12587.40
4	M.S.Channel 75x40x6 mm	Kg.	150	69.93	10489.50
5	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
6	M.S. Flats(50 X 10mm)	Kg.	75	65.48	4910.63
7	22 kv Pin Insulators with G.I. Pins	No.	3	386.40	1159.20
8	Disc Insulator 11 KV 45 KN	No.	6	280.60	1683.60
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	161.00	483.00
10	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
11	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2622.00	2622.00
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	71.81	1723.50
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	22KV H.G.Fuses	Set	1	5360.40	5360.40
16	22KV A.B.Switch, 400 A	No.	1	17336.40	17336.40
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	10.25	3935.10	40334.78
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	1	74122.72	74122.72

Cost of material **1178555.27**

1	Erection cost on material	15.00%	176783
2	Contractor supervision charges on material	5.00%	58928
Sub-Total			1414266
3	Contractor's Profit	5.00%	70713
Sub-Total			1484980
4	Transportation on material	4.00%	47142
5	T&P on material cost	1.00%	11786
6	Contigencies on material	2.00%	23571
Service Cost			3288169
Sub-Total			1567479
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	3135
Sub-Total			1570613
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	15706
9	Insurance	1.00%	15706
10	Turnkey Charges	0.00%	0

Total **1602026**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	2424406	1602010
Total Cost of the Estimate	2424406	1602010

Cost data for Pole mounted Distribution Transformer Sub-station 630 KVA, 22/0.433 kv.

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	887224.00	887224.00
2	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg.	180	69.93	12587.40
4	M.S.Channel 75x40x6 mm	Kg.	150	69.93	10489.50
5	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
6	M.S. Flats(50 X 10mm)	Kg.	75	65.48	4910.63
7	11 kv Pin Insulators with G.I. Pins	No.	3	108.66	325.98
8	Disc Insulator 11 KV 45 KN	No.	6	280.60	1683.60
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	161.00	483.00
10	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
11	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2622.00	2622.00
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	71.81	1723.50
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	22KV H.G.Fuses	Set	1	5360.40	5360.40
16	22KV A.B.Switch, 400 A	No.	1	17336.40	17336.40
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	3.5	3935.10	13772.85
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	1	74122.72	74122.72

Cost of material

1156714.03

1	Erection cost on material	15.00%	173507
2	Contractor supervision charges on material	5.00%	57836
	Sub-Total		1388057
3	Contractor's Profit	5.00%	69403
	Sub-Total		1457460
4	Transportation on material	4.00%	46269
5	T&P on material cost	1.00%	11567
6	Contingencies on material	2.00%	23134
	Service Cost		3227232
	Sub-Total		1538430
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	3077
	Sub-Total		1541507
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	15415
9	Insurance	1.00%	15415
10	Turnkey Charges	0.00%	0

Total

1572337

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	2379476	1572321
Total Cost of the Estimate	2379476	1572321

22/0.4 KV ,63 KVA Dist. Transformer centers on RSJ pole 9 mtrs, with kitkat DB.

Sr.No.	Description	Unit	Qty.	Rate	Amount
1	Dist. transformer 63kva,22/0.4kv	No	1	189212.50	189212.50
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg	44	69.93	3076.92
5	MS angle 50x50x6 mm	Kg	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
7	22 kV Pin Insulators with G.I. Pins	No	3	386.40	1159.20
8	Strain Hardware for Weasel/Squirrel	Set	3	205.16	615.48
9	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14200.80	14200.80
10	L.A.s 22KV (Gapless type) with disconnecter	No	1	2622.00	2622.00
11	H.T.Stay Set	Set	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	71.81	1795.31
13	Earthing Sets H.T	Set	7	461.70	3231.90
14	22KV H.G.Fuses	Set	1	5360.40	5360.40
15	22KV A.B.Switch, 400 A	Set	1	17336.40	17336.40
16	Danger Board in yard.	No	2	57.50	115.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	Kg.	15	80.34	1205.06
19	Painting/Hardware & support with numbering of pole	No	1	258.75	258.75
20	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	Set	1	16501.92	16501.92
21	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
22	Sundries	LS	1	885.50	885.50
Cost of Material					305558.96

1	Erection cost on material	15.00%	45834
2	Contractor supervision charges on material	5.00%	15278
	Sub-Total		366671
3	Contractor's Profit	5.00%	18334
	Sub-Total		385004
4	Transportation on material	4.00%	12222
5	T&P on material cost	1.00%	3056
6	Contingencies on material	2.00%	6111
	Service Cost		852509
	Sub-Total		406393
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	813
	Sub-Total		407206
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4072
9	Insurance	1.00%	4072
10	Turnkey Charges	0.00%	0
	Total		415350

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	628565	415346
Total Cost of the Estimate	628565	415346

Item Code No. 1016					
22/0.4 KV ,100 KVA Dist. Transformer centers on RSJ pole 9 mtrs, with kitkat DB.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Dist.transformer 100kva,22/0.4kv	No	1	252975.00	252975.00
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg	44	69.93	3076.92
5	MS angle 50x50x6 mm	Kg	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
7	22 kv Pin Insulators with G.I. Pins	No	3	386.40	1159.20
8	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14200.80	14200.80
9	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2622.00	2622.00
10	H.T.Stay Set	Set	4	807.30	3229.20
11	Earthing Sets H.T	Set	5	461.70	2308.50
12	22KV H.G.Fuses	Set	1	5360.40	5360.40
13	22KV A.B.Switch, 400 A	Set	1	17336.40	17336.40
14	Danger Board in yard.	No	2	57.50	115.00
15	Painting/Hardware & support with numbering of pole	LS	1	258.75	258.75
16	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No	1	18873.12	18873.12
17	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
18	Sundries	LS	1	885.50	885.50
Cost of Material					365359.65

1	Erection cost on material	15.00%	54804
2	Contractor supervision charges on material	5.00%	18268
Sub-Total			438432
3	Contractor's Profit	5.00%	21922
Sub-Total			460353
4	Transportation on material	4.00%	14614
5	T&P on material cost	1.00%	3654
6	Contingencies on material	2.00%	7307
Service Cost			1019353
Sub-Total			485928
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	972
Sub-Total			486900
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4869
9	Insurance	1.00%	4869
10	Turnkey Charges	0.00%	0
Total			496638

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	751581	496633
Total Cost of the Estimate	751581	496633

22/0.4 KV ,100 KVA Dist. Transformer centers on RSJ pole 11 mtrs, with kitkat DB.

Sr.No.	Description	Unit	Qty.	Rate	Amount
1	Dist.transformer 100kva,22/0.4kv	No	1	252975.00	252975.00
2	RSJ 116x100, 11 m long	No	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg	44	69.93	3076.92
5	MS angle 50x50x6 mm	Kg	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
7	22 kv Pin Insulators with G.I. Pins	No	3	386.40	1159.20
8	Strain Hardware forWeasel/Squirrel	Set	3	205.16	615.48
9	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14200.80	14200.80
10	L.A.s 22KV (Gapless type) with disconnecter	No	1	2622.00	2622.00
11	H.T.Stay Set	Set	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	71.81	1795.31
13	Earthing Sets H.T	Set	7	461.70	3231.90
14	22KV H.G.Fuses	Set	1	5360.40	5360.40
15	22KV A.B.Switch, 400 A	Set	1	17336.40	17336.40
16	Danger Board in yard.	No	2	57.50	115.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	Kg.	15	80.34	1205.06
19	Painting/Hardware & support with numbering of pole	No	1	258.75	258.75
20	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	Set	1	18873.12	18873.12
21	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
22	Sundries	LS	1	885.50	885.50
Cost of Material					377246.56

1	Erection cost on material	15.00%	56587
2	Contractor supervision charges on material	5.00%	18862
Sub-Total			452696
3	Contractor's Profit	5.00%	22635
Sub-Total			475331
4	Transportation on material	4.00%	15090
5	T&P on material cost	1.00%	3772
6	Contingencies on material	2.00%	7545
Service Cost			1052518
Sub-Total			501738
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1003
Sub-Total			502741
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	5027
9	Insurance	1.00%	5027
10	Turnkey Charges	0.00%	0
Total			512796

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	776034	512791
Total Cost of the Estimate	776034	512791

Item Code No. 1101					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station			22/0.433 KV 63 KVA, to 22/0.433 kv 100 KVA		
Sr.No	Description of Material	Unit	Qty.	RT/U.Rs.	Amount (Rs.)
1	Dist.transformer 100kva,22/0.4kv	No.	1	252975.00	252975.00
2	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	15386.40	15386.40
3	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	25	269.28	6732.00
4	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	10	444.15	4441.50
5	Sundries	no	1	885.50	885.50
Cost of material					280420.40
1	Erection cost on material		15.00%		42063
2	Contractor supervision charges on material		5.00%		14021
Sub-Total					336504
3	Contractor's Profit		5.00%		16825
Sub-Total					353330
4	Transportation on material		4.00%		11217
5	T&P on material cost		1.00%		2804
6	Contingencies on material		2.00%		5608
Service Cost					782373
Sub-Total					372959
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		746
Sub-Total					373705
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		3737
9	Insurance		1.00%		3737
10	Turnkey Charges		0.00%		0
Total					381179
Particulars		DPR Amount	Tender/ Estimate Amount		
		105.71%	35.930%		
Cost with overheads on Material		576853	381175		
Total Cost of the Estimate		576853	381175		

Item Code No. 1102					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station			22/0.433 kv, 100 KVA to 22/0.433 kv, 200 KVA		
Sr.No	Description of Material	Unit	Qty.	RT/U.Rs.	Amount (Rs.)
1	Dist.transformer 200kva,22/0.4kv	No.	1.00	398476.00	398476.00
2	L.T.Dist.Boxes 200 KVA with MCCB	No.	1.000	27244.80	27244.80
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25.00	444.15	11103.75
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10.00	847.80	8478.00
5	Sundries	LS	1.00	885.50	885.50
Cost of material					446188.05
1	Erection cost on material		15.00%		66928
2	Contractor supervision charges on material		5.00%		22309
Sub-Total					535426
3	Contractor's Profit		5.00%		26771
Sub-Total					562197
4	Transportation on material		4.00%		17848
5	T&P on material cost		1.00%		4462
6	Contingencies on material		2.00%		8924
Service Cost					1244865
Sub-Total					593430
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		1187
Sub-Total					594617
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		5946
9	Insurance		1.00%		5946
10	Turnkey Charges		0.00%		0
Total					606509
Particulars		DPR Amount	Tender/ Estimate Amount		
		105.71%	35.930%		
Cost with overheads on Material		917853	606503		
Total Cost of the Estimate		917853	606503		

Item Code No. 1103
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station

Sr.No	Description of Material	Unit	Qty	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 315 KVA, 22/0.43 kv	No.	1	598906.10	598906.10
2	6 way feeder pillar with ACB	No.	1	74355.60	74355.60
3	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt	25	444.15	11103.75
4	L.T. XLPE cable 3.5 Core 240 mm ²	Rmt	10	847.80	8478.00
5	Sundries	LS	1	885.50	885.50

Cost of Material **693728.95**

1	Erection cost on material	15.00%	104059
2	Contractor supervision charges on material	5.00%	34686
	Sub-Total		832475
3	Contractor's Profit	5.00%	41624
	Sub-Total		874098
4	Transportation on material	4.00%	27749
5	T&P on material cost	1.00%	6937
6	Contingencies on material	2.00%	13875
	Service Cost		1935504
	Sub-Total		922660
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	1845
	Sub-Total		924505
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9245
9	Insurance	1.00%	9245
10	Turnkey Charges	0.00%	0

Total **942995**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1427070	942986
Total Cost of the Estimate	1427070	942986

Item Code No. 1104					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station					
Sr.No	Description of Material	Unit	Qty	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 315 KVA, 22/0.43 kv	No.	1	598906.10	598906.10
2	6 way feeder pillar with ACB	No.	1	74355.60	74355.60
3	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt	25	444.15	11103.75
4	L.T. XLPE cable 3.5 Core 240 mm ²	Rmt	10	847.80	8478.00
5	Sundries	LS	1	885.50	885.50
Cost of Material					693728.95
1	Erection cost on material		15.00%		104059
2	Contractor supervision charges on material		5.00%		34686
Sub-Total					832475
3	Contractor's Profit		5.00%		41624
Sub-Total					874098
4	Transportation on material		4.00%		27749
5	T&P on material cost		1.00%		6937
6	Contingencies on material		2.00%		13875
Service Cost					1935504
Sub-Total					922660
7	BG Charges on 10% of the LOA amount (on Material+centage)		0.20%		1845
Sub-Total					924505
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		9245
9	Insurance		1.00%		9245
10	Turnkey Charges		0.00%		0
Total					942995
Particulars		DPR Amount		Tender/ Estimate Amount	
		105.71%		35.930%	
Cost with overheads on Material		1427070		942986	
Total Cost of the Estimate		1427070		942986	

Item Code No. 1105					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station					
Sr.No	Description of Material	Unit	Qty	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	887224.00	887224.00
2	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	978.75	44043.75
4	Sundries	LS	1	885.50	885.50

Cost of Material **1009181.25**

1	Erection cost on material	15.00%	151377
2	Contractor supervision charges on material	5.00%	50459
Sub-Total			1211018
3	Contractor's Profit	5.00%	60551
Sub-Total			1271568
4	Transportation on material	4.00%	40367
5	T&P on material cost	1.00%	10092
6	Contingencies on material	2.00%	20184
Service Cost			2815616
Sub-Total			1342211
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2684
Sub-Total			1344895
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	13449
9	Insurance	1.00%	13449
10	Turnkey Charges	0.00%	0

Total **1371793**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	2075987	1371780
Total Cost of the Estimate	2075987	1371780

Item Code No. 1106					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station					
Sr.No	Description of Material	Unit	Qty	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	887224.00	887224.00
2	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
3	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
4	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	978.75	44043.75
5	Sundries	LS	1	885.50	885.50
Cost of Material					1086209.25
1	Erection cost on material		15.00%		162931
2	Contractor supervision charges on material		5.00%		54310
Sub-Total					1303451
3	Contractor's Profit		5.00%		65173
Sub-Total					1368624
4	Transportation on material		4.00%		43448
5	T&P on material cost		1.00%		10862
6	Contingencies on material		2.00%		21724
Service Cost					3030524
Sub-Total					1444658
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		2889
Sub-Total					1447548
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		14475
9	Insurance		1.00%		14475
10	Turnkey Charges		0.00%		0
Total					1476499
Particulars		DPR Amount	Tender/ Estimate Amount		
		105.71%	35.930%		
Cost with overheads on Material		2234441	1476484		
Total Cost of the Estimate		2234441	1476484		

Item Code No. 1107					
Cost Data for Augumentation of Pole mounted Distribution Transformer Sub-station					
Sr.No	Description of Material	Unit	Qty	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	887224.00	887224.00
2	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
3	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
4	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	978.75	44043.75
5	Sundries	LS	1	885.50	885.50
Cost of Material					1086209.25
1	Erection cost on material		15.00%		162931
2	Contractor supervision charges on material		5.00%		54310
Sub-Total					1303451
3	Contractor's Profit		5.00%		65173
Sub-Total					1368624
4	Transportation on material		4.00%		43448
5	T&P on material cost		1.00%		10862
6	Contingencies on material		2.00%		21724
Service Cost					3030524
Sub-Total					1444658
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		2889
Sub-Total					1447548
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		14475
9	Insurance		1.00%		14475
10	Turnkey Charges		0.00%		0
Total					1476499
Particulars		DPR Amount	Tender/ Estimate Amount		
		105.71%	35.930%		
Cost with overheads on Material		2234441	1476484		
Total Cost of the Estimate		2234441	1476484		

Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 22/0.433 kv, 100/200/315 KVA to 22/0.433 kv, 630 KVA on plinth

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	887224.00	887224.00
2	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	978.75	44043.75
4	Sundries	LS	1	885.50	885.50
5	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
6	Earthing Replenishment for DTC	Set	1	14387.65	14387.65

Cost of Material **1033422.10**

1	Erection cost on material	15.00%	155013
2	Contractor supervision charges on material	5.00%	51671
	Sub-Total		1240107
3	Contractor's Profit	5.00%	62005
	Sub-Total		1302112
4	Transportation on material	4.00%	41337
5	T&P on material cost	1.00%	10334
6	Contingencies on material	2.00%	20668
	Service Cost		2883248
	Sub-Total		1374451
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	2749
	Sub-Total		1377200
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	13772
9	Insurance	1.00%	13772
10	Turnkey Charges	0.00%	0

Total **1404744**

Concreting ration 1:3:6 10.25 3935.10 40335

Total Cost of Estimate

1445079

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	2125853	1404731
Concreting ration 1:3:6	40335	40335
Total Cost of the Estimate	2166187	1445065

Item Code No. 1109					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station			22/0.433 kv, 100 KVA to 22/0.433 kv, 200 KVA		
Sr.No	Description of Material	Unit	Qty.	RT/U.Rs.	Amount (Rs.)
1	Dist.transformer 200kva,22/0.4kv	No.	1.00	398476.00	398476.00
2	L.T.Dist.Boxes 200 KVA with KitKat	No.	1.00	28080.00	28080.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25.00	444.15	11103.75
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10.00	847.80	8478.00
5	Sundries	LS	1.00	885.50	885.50
Cost of material					447023.25
1	Erection cost on material		15.00%		67053
2	Contractor supervision charges on material		5.00%		22351
Sub-Total					536428
3	Contractor's Profit		5.00%		26821
Sub-Total					563249
4	Transportation on material		4.00%		17881
5	T&P on material cost		1.00%		4470
6	Contingencies on material		2.00%		8940
Service Cost					1247195
Sub-Total					594541
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		1189
Sub-Total					595730
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		5957
9	Insurance		1.00%		5957
10	Turnkey Charges		0.00%		0
Total					607645
Particulars		DPR Amount	Tender/ Estimate Amount		
		105.71%	35.930%		
Cost with overheads on Material		919572	607639		
Total Cost of the Estimate		919572	607639		

POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION, 25 KVA, 11/0.433 KV ON RSJ POLE with MCCB Dist.Box

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	11 / .433 KV 25 KVA Transformer	No.	1	58891.25	58891.25
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	11 kV Pin Insulators with G.I. Pins	NO.	3	108.66	325.98
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	13497.00	13497.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1458.20	1458.20
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	11KV H.G.Fuses	Set.	1	2356.80	2356.80
	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
15	Danger Board in yard.	No.	2	57.50	115.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
17	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
18	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
19	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
20	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	13303.92	13303.92
21	Sundries	L.S.	1	885.50	885.50

Cost of material

158734.34

1	Erection cost on material	15.00%	23810
2	Contractor supervision charges on material	5.00%	7937
	Sub-Total		190481
3	Contractor's Profit	5.00%	9524
	Sub-Total		200005
4	Transportation on material	4.00%	6349
5	T&P on material cost	1.00%	1587
6	Contingencies on material	2.00%	3175
	Service Cost		442869
	Sub-Total		211117
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	422
	Sub-Total		211539
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2115
9	Insurance	1.00%	2115
10	Turnkey Charges	0.00%	0

Total

215770

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	326532	215768
Total Cost of the Estimate	326532	215768

Item Code No. 1202					
POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 63KVA, 11/0.433 KV ON 9 mtr RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. transformer 63kva,11/.4kv	No.	1	107770.00	107770.00
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	11 kV Pin Insulators with G.I. Pins	NO.	3	108.66	325.98
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	13497.00	13497.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1458.20	1458.20
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	11KV H.G.Fuses	Set.	1	2356.80	2356.80
	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
15	Danger Board in yard.	No.	2	57.50	115.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
17	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
18	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
19	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
20	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	16501.92	16501.92
21	Sundries	L.S.	1	885.50	885.50
Cost of material					210811.08
1	Erection cost on material		15.00%		31622
2	Contractor supervision charges on material		5.00%		10541
Sub-Total					252973
3	Contractor's Profit		5.00%		12649
Sub-Total					265622
4	Transportation on material		4.00%		8432
5	T&P on material cost		1.00%		2108
6	Contingencies on material		2.00%		4216
Service Cost					588163
Sub-Total					280379
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		561
Sub-Total					280939
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		2809
9	Insurance		1.00%		2809
10	Turnkey Charges		0.00%		0
Total					286558

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	433659	286556
Total Cost of the Estimate	433659	286556

Item Code No. 1203					
POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 100KVA, 11/0.433 KV ON 9 mtr RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	11 kv Pin Insulators with G.I. Pins	NO.	3	108.66	325.98
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	15386.40	15386.40
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1458.20	1458.20
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	11KV H.G.Fuses	Set.	1	2356.80	2356.80
15	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
16	Danger Board in yard.	No.	2	57.50	115.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
19	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
20	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
21	Sundries	L.S.	1	885.50	885.50
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	18873.12	18873.12
Cost of material					248264.18

1	Erection cost on material	15.00%	37240
2	Contractor supervision charges on material	5.00%	12413
Sub-Total			297917
3	Contractor's Profit	5.00%	14896
Sub-Total			312813
4	Transportation on material	4.00%	9931
5	T&P on material cost	1.00%	2483
6	Contingencies on material	2.00%	4965
Service Cost			692657
Sub-Total			330191
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	660
Sub-Total			330852
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3309
9	Insurance	1.00%	3309
10	Turnkey Charges	0.00%	0
Total			337469

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	510704	337465
Total Cost of the Estimate	510704	337465

Item Code No. 1204					
11 KV ,200 KVA Dist. Transformer centers on 100x116mm, 9 mtrs RSJ poles with MCCB Dist box.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 200 KVA, 11/0.43 kv	No.	1	253678.10	253678.10
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	124	69.93	8671.32
4	M.S.Channel 75x40x6 mm	Kg.	100	69.93	6993.00
5	MS angle 50x50x6 mm	Kg.	86	69.93	6013.98
6	M.S. Flats(50 X 10mm)	Kg.	56	65.48	3666.60
7	11 kv Pin Insulators with G.I. Pins	No.	3	108.66	325.98
8	Disc Insulator 11 KV 45 KN	No.	3	280.60	841.80
9	Strain Hardware for 34 Sq.mm AAC	No.	3	161.00	483.00
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	27244.80	27244.80
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	71.81	1149.00
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	11KV H.G.Fuses	Set	1	2356.80	2356.80
16	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	2.3	3935.10	9050.73
21	Painting of Supports & fabricated materials	LS	2	178.25	356.50
22	Sundries	LS	1	885.50	885.50
23	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	32097.12	32097.12
Minor Fabrication, etc.					
Cost of material					399793.83

1	Erection cost on material	15.00%	59969
2	Contractor supervision charges on material	5.00%	19990
Sub-Total			479753
3	Contractor's Profit	5.00%	23988
Sub-Total			503740
4	Transportation on material	4.00%	15992
5	T&P on material cost	1.00%	3998
6	Contingencies on material	2.00%	7996
Service Cost			1115425
Sub-Total			531726
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	1063
Sub-Total			532789
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	5328
9	Insurance	1.00%	5328
10	Turnkey Charges	0.00%	0

Total **543445**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	822416	543440
Total Cost of the Estimate	822416	543440

Item Code No. 1205					
Cost data for Pole mounted Distribution Transformer Sub-station 200 KVA, 11/0.433 kv.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 200 KVA, 11/0.43 kv	No.	1	253678.10	253678.10
2	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg.	124	69.93	8671.32
4	M.S.Channel 75x40x6 mm	Kg.	100	69.93	6993.00
5	MS angle 50x50x6 mm	Kg.	86	69.93	6013.98
6	M.S. Flats(50 X 10mm)	Kg.	56	65.48	3666.60
7	11 kv Pin Insulators with G.I. Pins	No.	3	108.66	325.98
8	Disc Insulator 11 KV 45 KN	No.	3	280.60	841.80
9	Strain Hardware for 34 Sq.mm AAC	No.	3	161.00	483.00
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	27244.80	27244.80
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	71.81	1149.00
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	11KV H.G.Fuses	Set	1	2356.80	2356.80
16	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	2.3	3935.10	9050.73
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
23	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	32097.12	32097.12
Minor Fabrication, etc.					
Cost of material					405169.48

1	Erection cost on material	15.00%	60775
2	Contractor supervision charges on material	5.00%	20258
Sub-Total			486203
3	Contractor's Profit	5.00%	24310
Sub-Total			510514
4	Transportation on material	4.00%	16207
5	T&P on material cost	1.00%	4052
6	Contingencies on material	2.00%	8103
Service Cost			1130423
Sub-Total			538875
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	1078
Sub-Total			539953
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	5400
9	Insurance	1.00%	5400
10	Turnkey Charges	0.00%	0
Total			550752

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	833474	550747
Total Cost of the Estimate	833474	550747

Item Code No. 1206					
Cost data for Pole mounted Distribution Transformer Sub-station 315 KVA, 11/0.433 kv.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	564070.00	564070.00
2	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg.	124	69.93	8671.32
4	M.S.Channel 75x40x6 mm	Kg.	100	69.93	6993.00
5	MS angle 50x50x6 mm	Kg.	86	69.93	6013.98
6	M.S. Flats(50 X 10mm)	Kg.	56	65.48	3666.60
7	11 kv Pin Insulators with G.I. Pins	No.	3	108.66	325.98
8	Disc Insulator 11 KV 45 KN	No.	3	280.60	841.80
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	161.00	483.00
10	6 way feeder pillar with ACB	No.	1	74355.60	74355.60
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	71.81	1149.00
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	11KV H.G.Fuses	Set	1	2356.80	2356.80
16	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	2.3	3935.10	9050.73
21	Painting of Supports & fabricated materials	LS	2	178.25	356.50
22	Sundries	LS	1	885.50	885.50
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	41925.12	41925.12
Minor Fabrication, etc.					
Cost of material					772678.43

1	Erection cost on material	15.00%	115902
2	Contractor supervision charges on material	5.00%	38634
Sub-Total			927214
3	Contractor's Profit	5.00%	46361
Sub-Total			973575
4	Transportation on material	4.00%	30907
5	T&P on material cost	1.00%	7727
6	Contingencies on material	2.00%	15454
Service Cost			2155773
Sub-Total			1027662
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	2055
Sub-Total			1029718
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	10297
9	Insurance	1.00%	10297
10	Turnkey Charges	0.00%	0

Total **1050312**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1589477	1050302
Total Cost of the Estimate	1589477	1050302

Item Code No. 1207					
Cost data for Pole mounted Distribution Transformer Sub-station 315 KVA, 11/0.433 kv.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	564070.00	564070.00
2	RSJ 116x100, 11 m long	No.	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg.	124	69.93	8671.32
4	M.S.Channel 75x40x6 mm	Kg.	100	69.93	6993.00
5	MS angle 50x50x6 mm	Kg.	86	69.93	6013.98
6	M.S. Flats(50 X 10mm)	Kg.	56	65.48	3666.60
7	11 kv Pin Insulators with G.I. Pins	No.	3	108.66	325.98
8	Disc Insulator 11 KV 45 KN	No.	3	280.60	841.80
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	161.00	483.00
10	6 way feeder pillar with ACB	No.	1	74355.60	74355.60
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	71.81	1149.00
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	11KV H.G.Fuses	Set	1	2356.80	2356.80
16	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	2.3	3935.10	9050.73
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	41925.12	41925.12
Minor Fabrication, etc.					
Cost of material					772500.18

1	Erection cost on material	15.00%	115875
2	Contractor supervision charges on material	5.00%	38625
Sub-Total			927000
3	Contractor's Profit	5.00%	46350
Sub-Total			973350
4	Transportation on material	4.00%	30900
5	T&P on material cost	1.00%	7725
6	Contingencies on material	2.00%	15450
Service Cost			2155276
Sub-Total			1027425
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	2055
Sub-Total			1029480
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	10295
9	Insurance	1.00%	10295
10	Turnkey Charges	0.00%	0
Total			1050070

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1589110	1050059
Total Cost of the Estimate	1589110	1050059

Item Code No. 1208					
Cost data for Plinth mounted Distribution Transformer Sub-station 630 KVA, 11/0.433 kv.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	805697.10	805697.10
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	180	69.93	12587.40
4	M.S.Channel 75x40x6 mm	Kg.	150	69.93	10489.50
5	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
6	M.S. Flats(50 X 10mm)	Kg.	75	65.48	4910.63
7	11 kv Pin Insulators with G.I. Pins	No.	3	108.66	325.98
8	Disc Insulator 11 KV 45 KN	No.	6	280.60	1683.60
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	161.00	483.00
10	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	71.81	1723.50
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	11KV H.G.Fuses	Set	1	2356.80	2356.80
	11KV A.B. Switch, 400 A	No	1	11088.00	11088.00
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	10.25	3935.10	40334.78
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	1	74122.72	74122.72

Cost of material **1085779.35**

1	Erection cost on material	15.00%	162867
2	Contractor supervision charges on material	5.00%	54289
	Sub-Total		1302935
3	Contractor's Profit	5.00%	65147
	Sub-Total		1368082
4	Transportation on material	4.00%	43431
5	T&P on material cost	1.00%	10858
6	Contingencies on material	2.00%	21716
	Service Cost		3029324
	Sub-Total		1444087
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2888
	Sub-Total		1446975
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	14470
9	Insurance	1.00%	14470
10	Turnkey Charges	0.00%	0

Total **1475914**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	2233557	1475900
Total Cost of the Estimate	2233557	1475900

Item Code No. 1212					
11 KV ,63 KVA Dist. Transformer centers on 9 mtrs 100 X 116 mm RSJ poles with Kit-kat Dist box.					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. transformer 63kva,11/.4kv	No.	1	107770.00	107770.00
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	11 kv Pin Insulators with G.I. Pins	NO.	3	108.66	325.98
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 25/63 KVA with KITKAT	No.	1	12960.00	12960.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1458.20	1458.20
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	11KV H.G.Fuses	Set.	1	2356.80	2356.80
15	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
16	Danger Board in yard.	No.	2	57.50	115.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
19	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
20	Painting/Hardware & support with numbering of pole	L.S.	2	258.75	517.50
21	Sundries	L.S.	1	885.50	885.50
21	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	16501.92	16501.92
Cost of material					210532.83

1	Erection cost on material	15.00%	31580
2	Contractor supervision charges on material	5.00%	10527
Sub-Total			252639
3	Contractor's Profit	5.00%	12632
Sub-Total			265271
4	Transportation on material	4.00%	8421
5	T&P on material cost	1.00%	2105
6	Contingencies on material	2.00%	4211
Service Cost			587387
Sub-Total			280009
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	560
Sub-Total			280569
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	2806
9	Insurance	1.00%	2806
10	Turnkey Charges	0.00%	0
Total			286180

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	433087
Total Cost of the Estimate	433087	286177

Item Code No. 1213					
11 KV ,100 KVA Dist. Transformer centers on 9 mtrs 100 X 116 mm RSJ poles with Kit-kat Dist box.					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	11 kv Pin Insulators with G.I. Pins	NO.	3	108.66	325.98
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 100 KVA with KITKAT	No.	1	14200.80	14200.80
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1458.20	1458.20
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	11KV H.G.Fuses	Set.	1	2356.80	2356.80
15	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
16	Danger Board in yard.	No.	2	57.50	115.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
19	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
20	Painting/Hardware & support with numbering of pole	L.S.	2	258.75	517.50
21	Sundries	L.S.	1	885.50	885.50
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	18873.12	18873.12
Cost of material					247337.33

1	Erection cost on material	15.00%	37101
2	Contractor supervision charges on material	5.00%	12367
Sub-Total			296805
3	Contractor's Profit	5.00%	14840
Sub-Total			311645
4	Transportation on material	4.00%	9893
5	T&P on material cost	1.00%	2473
6	Contingencies on material	2.00%	4947
Service Cost			690071
Sub-Total			328959
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	658
Sub-Total			329617
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3296
9	Insurance	1.00%	3296
10	Turnkey Charges	0.00%	0
Total			336209

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	508798	336206
Total Cost of the Estimate	508798	336206

Item Code No. 1214					
Cost data for Pole mounted Distribution Transformer Sub-station 315 KVA, 11/0.433 kv.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	564070.00	564070.00
2	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
3	G.I.Channel 100x50x6mm	Kg.	124	94.61	11731.39
4	G.I.Channel 75x40x6mm	Kg.	100	94.61	9460.80
5	G.I.Angle 50x50x6mm	Kg.	86	94.61	8136.29
6	G.I Flat 50x10 mm	Kg.	56	90.15	5048.57
7	11 kv Pin Insulators with G.I. Pins	No.	3	108.66	325.98
8	Disc Insulator 11 KV 45 KN	No.	3	280.60	841.80
9	Strain Hardware forWeasel/Squirrel	No.	3	205.16	615.48
10	6 way feeder pillar with ACB	No.	1	74355.60	74355.60
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
12	H.T.Stay Set	No.	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	71.81	1149.00
14	Earthing Sets H.T	No.	5	461.70	2308.50
15	11KV H.G.Fuses	Set	1	2356.80	2356.80
16	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
17	Danger Board in yard.	No.	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	Concreting ration 1:3:6	Cmt.	2.3	3935.10	9050.73
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	41925.12	41925.12

Cost of Material **776110.91**

1	Erection cost on material	15.00%	116417
2	Contractor supervision charges on material	5.00%	38806
Sub-Total			931333
3	Contractor's Profit	5.00%	46567
Sub-Total			977900
4	Transportation on material	4.00%	31044
5	T&P on material cost	1.00%	7761
6	Contigencies on material	2.00%	15522
Service Cost			2165349
Sub-Total			1032228
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2064
Sub-Total			1034292
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	10343
9	Insurance	1.00%	10343
10	Turnkey Charges	0.00%	0

Total **1054978**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1596538	1054968
Total Cost of the Estimate	1596538	1054968

Item Code No. 1215					
POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 63KVA, 11/0.433 KV ON 11 mtr RSJ POLE					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. transformer 63kva,11/.4kv	No.	1	107770.00	107770.00
2	RSJ 116x100, 11 m long	No	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	11 kv Pin Insulators with G.I. Pins	NO.	3	108.66	325.98
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	13497.00	13497.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1458.20	1458.20
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	11KV H.G.Fuses	Set.	1	2356.80	2356.80
	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
15	Danger Board in yard.	No.	2	57.50	115.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
17	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
18	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
19	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
20	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	16501.92	16501.92
21	Sundries	L.S.	1	885.50	885.50
Cost of material					216364.98

1	Erection cost on material	15.00%	32455
2	Contractor supervision charges on material	5.00%	10818
Sub-Total			259638
3	Contractor's Profit	5.00%	12982
Sub-Total			272620
4	Transportation on material	4.00%	8655
5	T&P on material cost	1.00%	2164
6	Contingencies on material	2.00%	4327
Service Cost			603658
Sub-Total			287765
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	576
Sub-Total			288341
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2883
9	Insurance	1.00%	2883
10	Turnkey Charges	0.00%	0
Total			294108

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	445084	294105
Total Cost of the Estimate	445084	294105

POLE MOUNTED DISTRIBUTION TRANSFORMER SUB-STATION 100KVA, 11/0.433 KV ON 11 mtr RSJ POLE

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
2	RSJ 116x100, 11 m long	No	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	11 kv Pin Insulators with G.I. Pins	NO.	3	108.66	325.98
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	15386.40	15386.40
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1458.20	1458.20
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	11KV H.G.Fuses	Set.	1	2356.80	2356.80
15	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
16	Danger Board in yard.	No.	2	57.50	115.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
19	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
20	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
21	Sundries	L.S.	1	885.50	885.50
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	18873.12	18873.12
Cost of material					253818.08

1	Erection cost on material	15.00%	38073
2	Contractor supervision charges on material	5.00%	12691
Sub-Total			304582
3	Contractor's Profit	5.00%	15229
Sub-Total			319811
4	Transportation on material	4.00%	10153
5	T&P on material cost	1.00%	2538
6	Contingencies on material	2.00%	5076
Service Cost			708152
Sub-Total			337578
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	675
Sub-Total			338253
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3383
9	Insurance	1.00%	3383
10	Turnkey Charges	0.00%	0

Total **345018**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	522129	345015
Total Cost of the Estimate	522129	345015

Item Code No. 1217					
11/0.4 KV ,25 KVA Dist. Transformer centers on RSJ , 100 X 116 mm, 11 mtr with MCCB Dist box.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	11 / .433 KV 25 KVA Transformer	No	1	58891.25	58891.25
2	RSJ 116x100, 11 m long	No	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg	80	69.93	5594.40
5	MS angle 50x50x6 mm	Kg	60	69.93	4195.80
6	M.S. Flats(50 X 10mm)	Kg	24	65.48	1571.40
7	11 kv Pin Insulators with G.I. Pins	No	3	108.66	325.98
8	Disc Insulator 11 KV 45 KN	No	3	280.60	841.80
9	Strain Hardware forWeasel/Squirrel	Set	3	205.16	615.48
10	L.T.Dist.Boxes 25/63 KVA with MCCB	No	1	13497.00	13497.00
11	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
12	H.T.Stay Set	Set	2	807.30	1614.60
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	71.81	1149.00
14	Earthing Sets H.T	Set	5	461.70	2308.50
15	11KV H.G.Fuses	Set	1	2356.80	2356.80
16	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
17	Danger Board in yard.	No	2	57.50	115.00
18	G.I.Strip (25 X 3 mm)	Kg	40	90.15	3606.12
19	G.I.Barbed Wire 'A' type.	Kg.	10	80.34	803.38
20	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No	1	13303.92	13303.92
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
Cost of material					161933.08
1	Erection cost on material	15.00%			24290
2	Contractor supervision charges on material	5.00%			8097
Sub-Total					194320
3	Contractor's Profit	5.00%			9716
Sub-Total					204036
4	Transportation on material	4.00%			6477
5	T&P on material cost	1.00%			1619
6	Contingencies on material	2.00%			3239
Service Cost					451793
Sub-Total					215371
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			431
Sub-Total					215802
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			2158
9	Insurance	1.00%			2158
10	Turnkey Charges	0.00%			0
Total					220118

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	333113
Total Cost of the Estimate	333113	220116

Item Code No. 1218					
11/0.4 KV ,25 KVA Dist. Transformer centers on RSJ , 100 X 116 mm, 9 mtr with Kitkat Dist box.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	11 / .433 KV 25 KVA Transformer	No	1	58891.25	58891.25
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg	44	69.93	3076.92
5	MS angle 50x50x6 mm	Kg	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
7	11 kv Pin Insulators with G.I. Pins	No	3	108.66	325.98
8	L.T.Dist.Boxes 25/63 KVA with KITKAT	No	1	12960.00	12960.00
9	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
10	H.T.Stay Set	Set	4	807.30	3229.20
11	Earthing Sets H.T	Set	5	461.70	2308.50
12	11KV H.G.Fuses	Set	1	2356.80	2356.80
13	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
14	Danger Board in yard.	No	2	57.50	115.00
15	Painting/Hardware & support with numbering of pole	LS	1	258.75	258.75
16	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No	1	13303.92	13303.92
17	Sundries	LS	1	885.50	885.50

Cost of Material **145346.69**

1	Erection cost on material	15.00%	21802
2	Contractor supervision charges on material	5.00%	7267
	Sub-Total		174416
3	Contractor's Profit	5.00%	8721
	Sub-Total		183137
4	Transportation on material	4.00%	5814
5	T&P on material cost	1.00%	1453
6	Contingencies on material	2.00%	2907
	Service Cost		405517
	Sub-Total		193311
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	387
	Sub-Total		193698
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1937
9	Insurance	1.00%	1937
10	Turnkey Charges	0.00%	0

Total **197572**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	2988993	197570
Total Cost of the Estimate	2988993	197570

Item Code No. 1219					
11/0.4 KV ,63 KVA Dist. Transformer centers on RSJ , 100 X 116 mm, 11 mtr with Kitkat Dist box.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Dist. transformer 63kva,11/.4kv	No	1	107770.00	107770.00
2	RSJ 116x100, 11 m long	No	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg	44	69.93	3076.92
5	MS angle 50x50x6 mm	Kg	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
7	11 kv Pin Insulators with G.I. Pins	No	3	108.66	325.98
8	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14200.80	14200.80
9	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
10	H.T.Stay Set	Set	4	807.30	3229.20
11	Earthing Sets H.T	Set	5	461.70	2308.50
12	11KV H.G.Fuses	Set	1	2356.80	2356.80
13	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
14	Danger Board in yard.	No	2	57.50	115.00
15	Painting/Hardware & support with numbering of pole	LS	1	258.75	258.75
16	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No	1	16501.92	16501.92
17	Sundries	LS	1	885.50	885.50
Cost of Material					204218.14

1	Erection cost on material	15.00%	30633
2	Contractor supervision charges on material	5.00%	10211
Sub-Total			245062
3	Contractor's Profit	5.00%	12253
Sub-Total			257315
4	Transportation on material	4.00%	8169
5	T&P on material cost	1.00%	2042
6	Contingencies on material	2.00%	4084
Service Cost			569769
Sub-Total			271610
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	543
Sub-Total			272153
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2722
9	Insurance	1.00%	2722
10	Turnkey Charges	0.00%	0
Total			277596

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	420097
Total Cost of the Estimate	420097	277594

Item Code No. 1220					
11/0.4 KV ,100 KVA Dist. Transformer centers on RSJ , 100 X 116 mm, 11 mtr with Kitkat Dist box.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Dist. Transformer 100 KVA, 11/0.43 kv	No	1	140962.50	140962.50
2	RSJ 116x100, 11 m long	No	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	Kg	44	69.93	3076.92
5	MS angle 50x50x6 mm	Kg	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
7	11 kv Pin Insulators with G.I. Pins	No	3	108.66	325.98
8	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14200.80	14200.80
9	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
10	H.T.Stay Set	Set	4	807.30	3229.20
11	Earthing Sets H.T	Set	5	461.70	2308.50
12	11KV H.G.Fuses	Set	1	2356.80	2356.80
13	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
14	Danger Board in yard.	No	2	57.50	115.00
15	Painting/Hardware & support with numbering of pole	LS	1	258.75	258.75
16	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No	1	18873.12	18873.12
17	Sundries	LS	1	885.50	885.50
Cost of Material					239781.84

1	Erection cost on material	15.00%	35967
2	Contractor supervision charges on material	5.00%	11989
Sub-Total			287738
3	Contractor's Profit	5.00%	14387
Sub-Total			302125
4	Transportation on material	4.00%	9591
5	T&P on material cost	1.00%	2398
6	Contingencies on material	2.00%	4796
Service Cost			668991
Sub-Total			318910
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	638
Sub-Total			319548
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3195
9	Insurance	1.00%	3195
10	Turnkey Charges	0.00%	0

Total **325939**

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	493255
Total Cost of the Estimate	493255	325935

Item Code No. 1221					
Cost Data for 11/0.44 DTC new 1 X 630 KVA, Indoor type DTC with RMU					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	805697.10	805697.10
2	11 KV SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	419701.20	419701.20
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	799.20	11988.00
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
6	Earthing with GI pipe	L.S.	4	392.85	1571.40
7	Earthing with GI plate	L.S.	4	2292.30	9169.20
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	1	74122.72	74122.72
9	Sundries	L.S.	1	885.50	885.50
Cost of Material					1402501.12

1	Erection cost on material	15.00%		210375
2	Contractor supervision charges on material	5.00%		70125
	Sub-Total			1683001
3	Contractor's Profit	5.00%		84150
	Sub-Total			1767151
4	Transportation on material	4.00%		56100
5	T&P on material cost	1.00%		14025
6	Contingencies on material	2.00%		28050
	Service Cost			3912978
	Sub-Total			1865326
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		3731
	Sub-Total			1869057
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		18691
9	Insurance	1.00%		18691
10	Turnkey Charges	0.00%		0
	Total			1906438
9	Civil Works 20 Sq. Mtr	LS	1	369990.57
	Total Cost of Estimate			2276429

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	2885085	1906420
Civil Works 20 Sq. Mtr	369991	369991
Total Cost of the Estimate	3255076	2276410

Item Code No. 1222					
Cost Data for 11/0.44 DTC new 2 X 630 KVA, Indoor type DTC with RMU					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	2	805697.10	1611394.20
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	419701.20	419701.20
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	30	799.20	23976.00
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	4	1169.00	4676.00
5	8 way feeder pillar with ACB	No.	2	77028.00	154056.00
6	Earthing with GI pipe	L.S.	8	392.85	3142.80
7	Earthing with GI plate	L.S.	8	2292.30	18338.40
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	2	74122.72	148245.44
9	Sundries	L.S.	2	885.50	1771.00
Cost of Material					2385301.04

1	Erection cost on material	15.00%		357795
2	Contractor supervision charges on material	5.00%		119265
	Sub-Total			2862361
3	Contractor's Profit	5.00%		143118
	Sub-Total			3005479
4	Transportation on material	4.00%		95412
5	T&P on material cost	1.00%		23853
6	Contingencies on material	2.00%		47706
	Service Cost			6654990
	Sub-Total			3172450
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		6345
	Sub-Total			3178795
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		31788
9	Insurance	1.00%		31788
10	Turnkey Charges	0.00%		0
	Total			3242371
9	Civil Works 20 Sq. Mtr	LS	2	369990.57
	Total Cost of Estimate			3982352

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	4906803	3242340
Civil Works 20 Sq. Mtr	739981	739981
Total Cost of the Estimate	5646784	3982321

Item Code No. 1223					
Cost Data for 11/0.44 DTC Additional 1 X 630 KVA, Indoor type DTC with RMU without room					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	805697.10	805697.10
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	419701.20	419701.20
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	799.20	11988.00
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
6	Earthing with GI pipe	L.S.	4	392.85	1571.40
7	Earthing with GI plate	L.S.	4	2292.30	9169.20
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	1	74122.72	74122.72
9	Sundries	L.S.	1	885.50	885.50

Cost of Material **1402501.12**

1	Erection cost on material	15.00%		210375
2	Contractor supervision charges on material	5.00%		70125
	Sub-Total			1683001
3	Contractor's Profit	5.00%		84150
	Sub-Total			1767151
4	Transportation on material	4.00%		56100
5	T&P on material cost	1.00%		14025
6	Contingencies on material	2.00%		28050
	Service Cost			3912978
	Sub-Total			1865326
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		3731
	Sub-Total			1869057
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		18691
9	Insurance	1.00%		18691
10	Turnkey Charges	0.00%		0

Total **1906438**

9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer		1	31079.40	31079
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Total Cost of Estimate

1937518

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	2885085	1906420
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	31079	31079
Total Cost of the Estimate	2916164	1937499

Item Code No. 1224					
Cost Data for 11/0.44 DTC Additional 2 X 630 KVA, Indoor type DTC with RMU without room					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	2	805697.10	1611394.20
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 2 Br	No.	1	591480.00	591480.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	30	799.20	23976.00
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	4	1169.00	4676.00
5	8 way feeder pillar with ACB	No.	2	77028.00	154056.00
6	Earthing with GI pipe	L.S.	8	392.85	3142.80
7	Earthing with GI plate	L.S.	8	2292.30	18338.40
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	No.	2	74122.72	148245.44
9	Sundries	L.S.	2	885.50	1771.00
Cost of Material					2557079.84

1	Erection cost on material	15.00%	383562
2	Contractor supervision charges on material	5.00%	127854
Sub-Total			3068496
3	Contractor's Profit	5.00%	153425
Sub-Total			3221921
4	Transportation on material	4.00%	102283
5	T&P on material cost	1.00%	25571
6	Contingencies on material	2.00%	51142
Service Cost			7134253
Sub-Total			3400916
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	6802
Sub-Total			3407718
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	34077
9	Insurance	1.00%	34077
10	Turnkey Charges	0.00%	0
Total			3475872

9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	2	31079.40	62159
Total Cost of Estimate					3538031

Particulars	Tender/ Estimate Amount	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	5260169	3475839
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	62159	62159
Total Cost of the Estimate	5322328	3537997

Item Code No. 1225					
Cost Data for 11/0.44 DTC Additional 1 X 315 KVA, Indoor type DTC with RMU without room					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	564070.00	564070.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	419701.20	419701.20
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	799.20	11988.00
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	6 way feeder pillar with ACB	No.	1	74355.60	74355.60
6	Earthing with GI pipe	L.S.	4	392.85	1571.40
7	Earthing with GI plate	L.S.	4	2292.30	9169.20
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	41925.12	41925.12
9	Sundries	L.S.	1	885.50	885.50
Cost of Material					1126004.02

1	Erection cost on material	15.00%		168901
2	Contractor supervision charges on material	5.00%		56300
Sub-Total				1351205
3	Contractor's Profit	5.00%		67560
Sub-Total				1418765
4	Transportation on material	4.00%		45040
5	T&P on material cost	1.00%		11260
6	Contigencies on material	2.00%		22520
Service Cost				3141551
Sub-Total				1497585
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		2995
Sub-Total				1500581
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		15006
9	Insurance	1.00%		15006
10	Turnkey Charges	0.00%		0

Total **1530592**

9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	2	31079.40	62159
Total Cost of Estimate					1592751

Particulars		
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	105.71%	35.930%
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	2316303	1530577
Total Cost of the Estimate	62159	62159
Total Cost of the Estimate	2378462	1592736

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Item Code No. 1226					
Cost Data for 11/0.44 DTC Additional 2 X 315 KVA, Indoor type DTC with RMU without room					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	2	564070.00	1128140.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 2 Br	No.	1	591480.00	591480.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	30	799.20	23976.00
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	4	1169.00	4676.00
5	6 way feeder pillar with ACB	No.	2	74355.60	148711.20
6	Earthing with GI pipe	L.S.	8	392.85	3142.80
7	Earthing with GI plate	L.S.	8	2292.30	18338.40
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	2	41925.12	83850.24
9	Sundries	L.S.	2	885.50	1771.00
Cost of Material					2004085.64

1	Erection cost on material	15.00%	300613
2	Contractor supervision charges on material	5.00%	100204
Sub-Total			2404903
3	Contractor's Profit	5.00%	120245
Sub-Total			2525148
4	Transportation on material	4.00%	80163
5	T&P on material cost	1.00%	20041
6	Contigencies on material	2.00%	40082
Service Cost			5591399
Sub-Total			2665434
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	5331
Sub-Total			2670765
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	26708
9	Insurance	1.00%	26708
10	Turnkey Charges	0.00%	0

Total **2724180**

9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	2	31079.40	62159
Total Cost of Estimate					2786339

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	4122605	2724154
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	62159	62159
Total Cost of the Estimate	4184763	2786312

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Item Code No. 1227					
Cost Data for 11/0.44 DTC new 315 KVA, Indoor type DTC with RMU					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	564070.00	564070.00
2	11 kv SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	419701.20	419701.20
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	799.20	11988.00
4	11 kv heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	6 way feeder pillar with ACB	No.	1	74355.60	74355.60
6	Earthing with GI pipe	L.S.	4	392.85	1571.40
7	Earthing with GI plate	L.S.	4	2292.30	9169.20
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	L.S.	1 Set	41925.12	41925.12
9	Sundries	L.S.	1	885.50	885.50
Cost of Material					1126004.02

1	Erection cost on material	15.00%		168901
2	Contractor supervision charges on material	5.00%		56300
Sub-Total				
3	Contractor's Profit	5.00%		67560
Sub-Total				
4	Transportation on material	4.00%		45040
5	T&P on material cost	1.00%		11260
6	Contigencies on material	2.00%		22520
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		2995
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		15006
9	Insurance	1.00%		15006
10	Turnkey Charges	0.00%		0
Total				
9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	31079.40
Total Cost of Estimate				
1561672				

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	105.71%
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	2316303	1530577
Total Cost of the Estimate	31079	31079
Total Cost of the Estimate	2347382	1561657

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Item Code No. 1228																			
Cost Data for 11/0.44 DTC new 630 KVA, Indoor type DTC with RMU																			
Sr.No	Particulars	Unit	Qty	Rate	Amount														
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	805697.10	805697.10														
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	419701.20	419701.20														
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	799.20	11988.00														
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00														
5	8 way feeder pillar with ACB	No.	1	77028.00	77028.00														
6	Earthing with GI pipe	L.S.	4	392.85	1571.40														
7	Earthing with GI plate	L.S.	4	2292.30	9169.20														
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	L.S.	1 Set	74122.72	74122.72														
9	Sundries	L.S.	1	885.50	885.50														
Cost of Material					1402501.12														
1	Erection cost on material		15.00%		210375														
2	Contractor supervision charges on material		5.00%		70125														
Sub-Total					1683001														
3	Contractor's Profit		5.00%		84150														
Sub-Total					1767151														
4	Transportation on material		4.00%		56100														
5	T&P on material cost		1.00%		14025														
6	Contingencies on material		2.00%		28050														
Service Cost					3912978														
Sub-Total					1865326														
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		3731														
Sub-Total					1869057														
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		18691														
9	Insurance		1.00%		18691														
10	Turnkey Charges		0.00%		0														
Total					1906438														
9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	31079.40	31079														
Total Cost of Estimate					1937518														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 60%;">Particulars</th> <th colspan="2" style="width: 40%;">Amount</th> </tr> <tr> <th style="width: 20%;">DPR Amount</th> <th style="width: 20%;">Tender/ Estimate Amount</th> </tr> </thead> <tbody> <tr> <td>Cost with overheads on Material</td> <td style="text-align: right;">2885085</td> <td style="text-align: right;">1906420</td> </tr> <tr> <td>Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer</td> <td style="text-align: right;">31079</td> <td style="text-align: right;">31079</td> </tr> <tr> <td>Total Cost of the Estimate</td> <td style="text-align: right;">2916164</td> <td style="text-align: right;">1937499</td> </tr> </tbody> </table>						Particulars	Amount		DPR Amount	Tender/ Estimate Amount	Cost with overheads on Material	2885085	1906420	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	31079	31079	Total Cost of the Estimate	2916164	1937499
Particulars	Amount																		
	DPR Amount	Tender/ Estimate Amount																	
Cost with overheads on Material	2885085	1906420																	
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	31079	31079																	
Total Cost of the Estimate	2916164	1937499																	

Item Code No. 1229					
Cost Data for 11/0.44 DTC new 995 KVA, Indoor type DTC with RMU					
Sr.No	Particulars	Unit	Qty	Rate	Amount
1	Dist. Transformer 995 KVA, 11/0.4 kv	No.	1	1130550.20	1130550.20
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	419701.20	419701.20
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	799.20	11988.00
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1169.00	2338.00
5	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
6	Earthing with GI pipe	L.S.	4	392.85	1571.40
7	Earthing with GI plate	L.S.	4	2292.30	9169.20
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 995 KVA	L.S.	1 Set	106190.72	106190.72
9	Sundries	L.S.	1	885.50	885.50
Cost of Material					1759422.22

1	Erection cost on material	15.00%	263913
2	Contractor supervision charges on material	5.00%	87971
Sub-Total			2111307
3	Contractor's Profit	5.00%	105565
Sub-Total			2216872
4	Transportation on material	4.00%	70377
5	T&P on material cost	1.00%	17594
6	Contingencies on material	2.00%	35188
Service Cost			4908788
Sub-Total			2340032
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	4680
Sub-Total			2344712
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	23447
9	Insurance	1.00%	23447
10	Turnkey Charges	0.00%	0
Total			2391606

9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	31079.40	31079
Total Cost of Estimate					2422685

Particulars		
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	3619307	2391583
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	31079	31079
Total Cost of the Estimate	3650387	2422662

Item Code No. 1301					
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station				11/0.433 KV, 63 KVA to 11/0.433 kv 100	
Sr.No	Description of Material	Unit	Qty.	RT/UNIT(RS)	Amount (Rs.)
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
2	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	15386.40	15386.40
3	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	25	269.28	6732.00
4	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	10	444.15	4441.50
5	Sundries	no	1	885.50	885.50
Cost of material					168407.90
1	Erection cost on material		15.00%		25261
2	Contractor supervision charges on material		5.00%		8420
Sub-Total					202089
3	Contractor's Profit		5.00%		10104
Sub-Total					212194
4	Transportation on material		4.00%		6736
5	T&P on material cost		1.00%		1684
6	Contingencies on material		2.00%		3368
Service Cost					469858
Sub-Total					223983
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		448
Sub-Total					224430
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		2244
9	Insurance		1.00%		2244
10	Turnkey Charges		0.00%		0
Total					228919
Particulars		DPR Amount		Tender/ Estimate Amount	
		105.71%		35.930%	
Cost with overheads on Material		346432		228917	
Total Cost of the Estimate		346432		228917	

Item Code No. 1302					
Cost Data for Augumentation of Pole mounted Distribution Transformer Sub-station 11/0.433 KV 100 KVA to 11/0.433 kv 200 KVA					
Sr.No	Description of Material	Unit	Qty.	RT/UNIT(RS)	Amount (Rs.)
1	Dist. Transformer 200 KVA, 11/0.43 kv	No.	1.00	253678.10	253678.10
2	L.T.Dist.Boxes 200 KVA with MCCB	No.	1.000	27244.80	27244.80
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25.00	444.15	11103.75
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10.00	847.80	8478.00
5	Sundries	no	1.00	885.50	885.50

Cost of material				301390.15
1	Erection cost on material	15.00%		45209
2	Contractor supervision charges on material	5.00%		15070
Sub-Total				361668
3	Contractor's Profit	5.00%		18083
Sub-Total				379752
4	Transportation on material	4.00%		12056
5	T&P on material cost	1.00%		3014
6	Contigencies on material	2.00%		6028
Service Cost				840879
Sub-Total				400849
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		802
Sub-Total				401651
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		4017
9	Insurance	1.00%		4017
10	Turnkey Charges	0.00%		0

Total			409684
Particulars	DPR Amount	Tender/ Estimate Amount	
	105.71%	35.930%	
Cost with overheads on Material	619990	409680	
Total Cost of the Estimate	619990	409680	

Cost Data for Augumentation of Distribution Transformer Sub-station 11/0.433 kv, 100 KVA to 11/0.433 kv, 315 KVA - Indoor

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	564070.00	564070.00
2	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	978.75	44043.75
4	Sundries	LS	1	885.50	885.50

Cost of Material **686027.25**

1	Erection cost on material	15.00%	102904
2	Contractor supervision charges on material	5.00%	34301
Sub-Total			823233
3	Contractor's Profit	5.00%	41162
Sub-Total			864394
4	Transportation on material	4.00%	27441
5	T&P on material cost	1.00%	6860
6	Contingencies on material	2.00%	13721
Service Cost			1914016
Sub-Total			912416
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	1825
Sub-Total			914241
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9142
9	Insurance	1.00%	9142
10	Turnkey Charges	0.00%	0

Total **932526**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1411227	932517
Total Cost of the Estimate	1411227	932517

Item Code No. 1304					
Cost Data for Augumentation of Distribution Transformer Sub-station 11/0.433 kv, 200 KVA to 11/0.433 kv, 315 KVA - Indoor					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 315 KVA, 11/0.43 kv	No.	1	564070.00	564070.00
2	6 way feeder pillar with ACB	No.	1	74355.60	74355.60
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	978.75	44043.75
4	Sundries	LS	1	885.50	885.50
Cost of Material					683354.85

1	Erection cost on material	15.00%		102503
2	Contractor supervision charges on material	5.00%		34168
Sub-Total				
3	Contractor's Profit	5.00%		41001
Sub-Total				
4	Transportation on material	4.00%		27334
5	T&P on material cost	1.00%		6834
6	Contingencies on material	2.00%		13667
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		1818
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		9107
9	Insurance	1.00%		9107
10	Turnkey Charges	0.00%		0

Total			928893
Particulars	DPR Amount	Tender/ Estimate Amount	
		105.71%	35.930%
Cost with overheads on Material	1405729	928884	
Total Cost of the Estimate	1405729	928884	

Item Code No. 1305																			
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 11/0.433 kv, 200 KVA to																			
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)														
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	805697.10	805697.10														
2	8 way feeder pillar with ACB	No.	1	77028.00	77028.00														
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	978.75	44043.75														
4	Sundries	LS	1	885.50	885.50														
Cost of Material					927654.35														
1	Erection cost on material		15.00%		139148														
2	Contractor supervision charges on material		5.00%		46383														
Sub-Total					1113185														
3	Contractor's Profit		5.00%		55659														
Sub-Total					1168844														
4	Transportation on material		4.00%		37106														
5	T&P on material cost		1.00%		9277														
6	Contingencies on material		2.00%		18553														
Service Cost					2588156														
Sub-Total					1233780														
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		2468														
Sub-Total					1236248														
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		12362														
9	Insurance		1.00%		12362														
10	Turnkey Charges		0.00%		0														
Total					1260973														
9	Concreting ration 1:3:6		10.25	3935.10	40335														
Total Cost of Estimate					1301308														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 60%;">Particulars</th> <th style="width: 20%;">DPR Amount</th> <th style="width: 20%;">Tender/ Estimate Amount</th> </tr> <tr> <th style="text-align: center;">105.71%</th> <th style="text-align: center;">35.930%</th> </tr> </thead> <tbody> <tr> <td>Cost with overheads on Material</td> <td style="text-align: right;">1908278</td> <td style="text-align: right;">1260961</td> </tr> <tr> <td>Concreting ration 1:3:6</td> <td style="text-align: right;">40335</td> <td style="text-align: right;">40335</td> </tr> <tr> <td>Total Cost of the Estimate</td> <td style="text-align: right;">1948613</td> <td style="text-align: right;">1301295</td> </tr> </tbody> </table>						Particulars	DPR Amount	Tender/ Estimate Amount	105.71%	35.930%	Cost with overheads on Material	1908278	1260961	Concreting ration 1:3:6	40335	40335	Total Cost of the Estimate	1948613	1301295
Particulars	DPR Amount	Tender/ Estimate Amount																	
	105.71%	35.930%																	
Cost with overheads on Material	1908278	1260961																	
Concreting ration 1:3:6	40335	40335																	
Total Cost of the Estimate	1948613	1301295																	

Item Code No. 1306																			
Cost Data for Augmentation of Pole mounted Distribution Transformer Sub-station 11/0.433 kv, 315 KVA to																			
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)														
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	805697.10	805697.10														
2	8 way feeder pillar with ACB	No.	1	77028.00	77028.00														
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	978.75	44043.75														
4	Sundries	LS	1	885.50	885.50														
Cost of Material					927654.35														
1	Erection cost on material		15.00%		139148														
2	Contractor supervision charges on material		5.00%		46383														
Sub-Total					1113185														
3	Contractor's Profit		5.00%		55659														
Sub-Total					1168844														
4	Transportation on material		4.00%		37106														
5	T&P on material cost		1.00%		9277														
6	Contingencies on material		2.00%		18553														
Service Cost					2588156														
Sub-Total					1233780														
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		2468														
Sub-Total					1236248														
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		12362														
9	Insurance		1.00%		12362														
10	Turnkey Charges		0.00%		0														
Total					1260973														
9	Concreting ration 1:3:6		10.25	3935.10	40335														
Total Cost of Estimate					1301308														
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Particulars	DPR Amount	Tender/ Estimate Amount																	
	105.71%	35.930%																	
Cost with overheads on Material	1908278	1260961																	
Concreting ration 1:3:6	40335	40335																	
Total Cost of the Estimate	1948613	1301295																	

Item Code No. 1307						
Cost Data for Augmentation of existing DTC to 11/0.433 KV 100 KVA with rural KITKAT DB						
Sr. No.	Description of Material	Unit	QTY	Rate/Unit	Rs.	Amount
1	Dist. Transformer 100 KVA, 11/0.43 kv	No	1	140962.50		140962.50
2	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14200.80		14200.80
3	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20		1458.20
4	11KV A.B. Switch, 400 A	Set	1	11088.00		11088.00
5	Danger Board in yard.	No	2	57.50		115.00
6	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75		1793.75
7	G.I.Barbed Wire 'A' type.	Kg.	150	80.34		12050.63
8	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	25	269.28		6732.00
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	10	444.15		4441.50
10	Painting/Hardware & support with numbering of pole	No	1	258.75		258.75
11	Sundries	LS	1	885.50		885.50

Cost of material **193986.63**

1	Erection cost on material	15.00%	29098
2	Contractor supervision charges on material	5.00%	9699
	Sub-Total		232784
3	Contractor's Profit	5.00%	11639
	Sub-Total		244423
4	Transportation on material	4.00%	7759
5	T&P on material cost	1.00%	1940
6	Contingencies on material	2.00%	3880
	Service Cost		541223
	Sub-Total		258002
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	516
	Sub-Total		258518
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2585
9	Insurance	1.00%	2585
10	Turnkey Charges	0.00%	0

Total **263689**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	399050	263686
Total Cost of the Estimate	399050	263686

Item Code No. 1308						
Cost Data for Augmentation of existing DTC to 11/0.433 KV 200 KVA with rural KITKAT DB						
Sr. No.	Description of Material	Unit	QTY	Rate/Unit	Rs.	Amount
1	Dist. Transformer 200 KVA, 11/0.43 kv	No	1	253678.10		253678.10
2	L.T.Dist.Boxes 200 KVA with KitKat	No	1	28080.00		28080.00
3	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20		1458.20
4	11KV A.B. Switch, 400 A	Set	1	11088.00		11088.00
5	Danger Board in yard.	No	2	57.50		115.00
6	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75		1793.75
7	G.I.Barbed Wire 'A' type.	Kg.	150	80.34		12050.63
8	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25	444.15		11103.75
9	L.T. XLPE cable 3.5 Core 240 mm ²	Rmt	10	847.80		8478.00
10	Painting/Hardware & support with numbering of pole	No	1	258.75		258.75
11	Sundries	LS	1	885.50		885.50

Cost of material **328989.68**

1	Erection cost on material	15.00%	49348
2	Contractor supervision charges on material	5.00%	16449
	Sub-Total		394788
3	Contractor's Profit	5.00%	19739
	Sub-Total		414527
4	Transportation on material	4.00%	13160
5	T&P on material cost	1.00%	3290
6	Contingencies on material	2.00%	6580
	Service Cost		917881
	Sub-Total		437556
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	875
	Sub-Total		438431
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4384
9	Insurance	1.00%	4384
10	Turnkey Charges	0.00%	0

Total **447200**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	676765	447196
Total Cost of the Estimate	676765	447196

Item Code No. 1309					
Cost Data for Augmentation of Indoor Distribution Transformer Sub-station 11/0.4 kv, 315 KVA to 11/0.4 kv, 630 KVA					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 630 KVA, 11/0.43 kv	No.	1	805697.10	805697.10
2	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
3	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 630 KVA	L.S.	1 Set	74122.72	74122.72
4	Sundries	L.S.	1	885.50	885.50
Cost of Material					957733.32

1	Erection cost on material	15.00%	143660
2	Contractor supervision charges on material	5.00%	47887
Sub-Total			1149280
3	Contractor's Profit	5.00%	57464
Sub-Total			1206744
4	Transportation on material	4.00%	38309
5	T&P on material cost	1.00%	9577
6	Contingencies on material	2.00%	19155
Service Cost			2672076
Sub-Total			1273785
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2548
Sub-Total			1276333
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	12763
9	Insurance	1.00%	12763
10	Turnkey Charges	0.00%	0
Total			1301860

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1970153	1301847
Total Cost of the Estimate	1970153	1301847

Item Code No. 1310					
Cost Data for Augmentation of Indoor Distribution Transformer Sub-station 11/0.4 kv, 630 KVA to 11/0.4 kv, 995 KVA					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount (Rs.)
1	Dist. Transformer 995 KVA, 11/0.4 kv	No.	1	1130550.20	1130550.20
2	8 way feeder pillar with ACB	No.	1	77028.00	77028.00
3	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 320 mtr length) and other allied material for 995 KVA	L.S.	1 Set	106190.72	106190.72
4	Sundries	L.S.	1	885.50	885.50

Cost of Material				1314654.42
1	Erection cost on material	15.00%		197198
2	Contractor supervision charges on material	5.00%		65733
Sub-Total				1577585
3	Contractor's Profit	5.00%		78879
Sub-Total				1656465
4	Transportation on material	4.00%		52586
5	T&P on material cost	1.00%		13147
6	Contingencies on material	2.00%		26293
Service Cost				3667886
Sub-Total				1748490
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		3497
Sub-Total				1751987
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		17520
9	Insurance	1.00%		17520
10	Turnkey Charges	0.00%		0
Total				1787027

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	2704376	1787010
Total Cost of the Estimate	2704376	1787010

Item Code No. 1401

L.T. LINE 3 ph 4 W. -WIND PRESSURE ZONE - With AAAC 55 sqmm for phase & ACSR Weasel for neutral with PSC Pole 8 Mtr (200 KG)

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (200 KG)	No.	20	2376.00	47520.00
2	AAAC 55 mm2	Rmt	3200	34.54	110529.48
3	ACSR Weasel	Rmt	1100	23.27	25596.23
4	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
5	L.T.Shackle Insulator	No	72	11.50	828.00
6	L.T.Shackle hardware	Pair	96	49.95	4795.20
7	Jointing Sleeves for AAC	No	4	36.80	147.20
8	Aluminium Bobbins for neutral	No.	20	36.80	736.00
9	PG Clamp	No	6	31.05	186.30
10	Earthing Sets L.T.	No	5	224.10	1120.50
11	L.T. Stay sets	No	8	637.20	5097.60
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	71.81	5170.50
13	Stay Insulators	No	8	11.50	92.00
14	Binding Wire	Kg.	1.5	80.50	120.75
15	Binding Tape	Kg	1.5	49.45	74.18
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
17	Concreting ration 1:3:6	Cmt	2.4	3935.10	9444.24
18	L.T.Spacers	No	57	126.50	7210.50
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	131.23	4199.32
b)	GNAT To GNAT or equivalent AAAC	No	24	131.23	3149.49
Cost of material					237926.39

1	Erection cost on material	15.00%	35689
2	Contractor supervision charges on material	5.00%	11896
Sub-Total			285512
3	Contractor's Profit	5.00%	14276
Sub-Total			299787
4	Transportation on material	4.00%	9517
5	T&P on material cost	1.00%	2379
6	Contingencies on material	2.00%	4759
Service Cost			663815
Sub-Total			316442
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	633
Sub-Total			317075
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3171
9	Insurance	1.00%	3171
10	Turnkey Charges	0.00%	0
Total			323416

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	489438	323413
Total Cost of the Estimate	489438	323413

L.T. LINE 3 ph 4 W. -WIND PRESSURE ZONE - With AAAC 55 aqmm for phase & ACSR Weasel for neutral with PSC Pole 8 Mtr (140 KG)

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (140 KG)	No.	20	1980.00	39600.00
2	AAAC 55 mm2	Rmt	3200	34.54	110529.48
3	ACSR Weasel	Rmt	1100	23.27	25596.23
4	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
5	L.T.Shackle Insulator	No	72	11.50	828.00
6	L.T.Shackle hardware	Pair	96	49.95	4795.20
7	Aluminium Bobbins for neutral	No.	20	36.80	736.00
8	Jointing Sleeves for AAC	No	4	36.80	147.20
9	PG Clamp	No	6	31.05	186.30
10	Earthing Sets L.T.	No	5	224.10	1120.50
11	L.T. Stay sets	No	8	637.20	5097.60
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	71.81	5170.50
13	Stay Insulators	No	8	11.50	92.00
14	Binding Wire	Kg.	1.5	80.50	120.75
15	Binding Tape	Kg	1.5	49.45	74.18
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
17	Concreting ration 1:3:6	Cmt	2.4	3935.10	9444.24
18	L.T.Spacers	No	57	126.50	7210.50
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	131.23	4199.32
b)	GNAT To GNAT or equivalent AAAC	No	24	131.23	3149.49
Cost of material					230006.39

1	Erection cost on material	15.00%	34501
2	Contractor supervision charges on material	5.00%	11500
Sub-Total			276008
3	Contractor's Profit	5.00%	13800
Sub-Total			289808
4	Transportation on material	4.00%	9200
5	T&P on material cost	1.00%	2300
6	Contingencies on material	2.00%	4600
Service Cost			641718
Sub-Total			305908
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	612
Sub-Total			306520
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3065
9	Insurance	1.00%	3065
10	Turnkey Charges	0.00%	0
Total			312651

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	473146	312648
Total Cost of the Estimate	473146	312648

Item Code No. 1402					
L.T. LINE 3 ph 4 W. - ACSR Weasel with PSC Pole 8 Mtr (200 KG)					
SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT./UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (200 KG)	No.	16	2376.00	38016.00
2	ACSR Weasel	Rmt	4300	23.27	100057.99
3	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
4	L.T.Shackle Insulator	No	60	11.50	690.00
5	Aluminium Bobbins for neutral	No.	20	36.80	736.00
6	L.T.Shackle hardware	Pair	80	49.95	3996.00
7	Jointing Sleeves for AAC	No	4	36.80	147.20
8	PG Clamp	No	6	31.05	186.30
9	Earthing Sets L.T.	No	5	224.10	1120.50
10	L.T. Stay sets	No	8	637.20	5097.60
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	71.81	5170.50
12	Stay Insulators	No	8	11.50	92.00
13	Binding Wire	Kg.	1.5	80.50	120.75
14	Binding Tape	Kg	1.5	49.45	74.18
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
16	Concreting ration 1:3:6	Ls	1	3935.10	3935.10
17	L.T.Spacers	No	45	126.50	5692.50
18	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	56	131.23	7348.81

Cost of material

184390.33

1	Erection cost on material	15.00%	27659
2	Contractor supervision charges on material	5.00%	9220
	Sub-Total		221268
3	Contractor's Profit	5.00%	11063
	Sub-Total		232332
4	Transportation on material	4.00%	7376
5	T&P on material cost	1.00%	1844
6	Contingencies on material	2.00%	3688
	Service Cost		514449
	Sub-Total		245239
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	490
	Sub-Total		245730
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2457
9	Insurance	1.00%	2457
10	Turnkey Charges	0.00%	0

Total

250644

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	379309	250642
Total Cost of the Estimate	379309	250642

Item Code No. 1402A					
L.T. LINE 3 ph 4 W. -With ACSR Weasel for phase & Neutral with PSC Pole 8 Mtr (140 KG)					
SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (140 KG)	No.	16	1980.00	31680.00
2	ACSR Weasel	Rmt	4300	23.27	100057.99
3	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
4	L.T.Shackle Insulator	No	60	11.50	690.00
5	Aluminium Bobbins for neutral	No.	20	36.80	736.00
6	L.T.Shackle hardware	Pair	80	49.95	3996.00
7	Jointing Sleeves for AAC	No	4	36.80	147.20
8	PG Clamp	No	6	31.05	186.30
9	Earthing Sets L.T.	No	5	224.10	1120.50
10	L.T. Stay sets	No	8	637.20	5097.60
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	71.81	5170.50
12	Stay Insulators	No	8	11.50	92.00
13	Binding Wire	Kg.	1.5	80.50	120.75
14	Binding Tape	Kg	1.5	49.45	74.18
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
16	Concreting ration 1:3:6	Ls	1	3935.10	3935.10
17	L.T.Spacers	No	45	126.50	5692.50
18	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	56	131.23	7348.81

Cost of material

178054.33

1	Erection cost on material	15.00%	26708
2	Contractor supervision charges on material	5.00%	8903
	Sub-Total		213665
3	Contractor's Profit	5.00%	10683
	Sub-Total		224348
4	Transportation on material	4.00%	7122
5	T&P on material cost	1.00%	1781
6	Contingencies on material	2.00%	3561
	Service Cost		496772
	Sub-Total		236812
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	474
	Sub-Total		237286
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2373
9	Insurance	1.00%	2373
10	Turnkey Charges	0.00%	0

Total

242032

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	366276	242029
Total Cost of the Estimate	366276	242029

Item Code No.1403					
Cost data for laying of 1 Km. L.T. XLPE Armoured Cable for Size 70 mm ²					
Sr.No.	Particulars	Unit	Qty.	RT/UNIT(RS)	Amount
1	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	1000.00	269.28	269280.00
2	R.C.C. Pipe 150 mm 2 M	No.	30.00	572.00	17160.00
3	L.T. jointing kits for 70 Sqmm	No.	10.00	448.00	4480.00
4	Misc. (Bricks,sand,tremination kit and etc.)	LS	1.00	27775.95	27775.95

Cost of material			318695.95
1	Erection cost on material	15.00%	47804
2	Contractor supervision charges on material	5.00%	15935
Sub-Total			382435
3	Contractor's Profit	5.00%	19122
Sub-Total			401557
4	Transportation on material	4.00%	12748
5	T&P on material cost	1.00%	3187
6	Contingencies on material	2.00%	6374
Service Cost			889162
Sub-Total			423866
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	848
Sub-Total			424713
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	4247
9	Insurance	1.00%	4247
10	Turnkey Charges	0.00%	0
Total			433208

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	655589	433203
Total Cost of the Estimate	655589	433203

Item Code No.1405					
Cost data for laying of 1 Km. L.T.XLPE Cable for Size 120 mm ² .					
Sr.No.	Particulars	Unit	Qty.	RT/UNIT(RS)	Amount
1	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt	1000.00	444.15	444150.00
2	R.C.C. Pipe 150 mm 2 M	No.	30.00	572.00	17160.00
3	L.T. jointing kits for 120 Sqmm	No	10.00	560.00	5600.00
4	Misc. (Bricks,sand,tremination kit and etc.)	LS	1.00	27775.95	27775.95

Cost of material			494685.95
1	Erection cost on material	15.00%	74203
2	Contractor supervision charges on material	5.00%	24734
Sub-Total			593623
3	Contractor's Profit	5.00%	29681
Sub-Total			623304
4	Transportation on material	4.00%	19787
5	T&P on material cost	1.00%	4947
6	Contingencies on material	2.00%	9894
Service Cost			1380174
Sub-Total			657932
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1316
Sub-Total			659248
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	6592
9	Insurance	1.00%	6592
10	Turnkey Charges	0.00%	0
Total			672433

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1017618	672427
Total Cost of the Estimate	1017618	672427

Item Code No.1406					
Cost data for laying of 1 Km. L.T.XLPE Armoured Cable for Size 185 mm ² .					
Sr.No.	Particulars	Unit	Qty.	RT/UNIT(RS)	Amount
1	L.T. XLPE Armoured 3.5 Core cable 185 sq.mm.	Rmt	1000.00	661.50	661500.00
2	R.C.C. Pipe 150 mm 2 M	No.	30.00	572.00	17160.00
3	LT St.through joints for 185 sqmm	No	10.00	864.00	8640.00
4	Misc. (Bricks,sand,tremination kit and etc.)	LS	1.00	27775.95	27775.95

Cost of material **715075.95**

1	Erection cost on material	15.00%			107261
2	Contractor supervision charges on material	5.00%			35754
	Sub-Total				858091
3	Contractor's Profit	5.00%			42905
	Sub-Total				900996
4	Transportation on material	4.00%			28603
5	T&P on material cost	1.00%			7151
6	Contingencies on material	2.00%			14302
	Service Cost				1995062
	Sub-Total				951051
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			1902
	Sub-Total				952953
	Labour Cess (on Total Works Cost instead of only Material Cost)				
8		1.00%			9530
9	Insurance	1.00%			9530
10	Turnkey Charges	0.00%			0

Total **972012**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1470983	972003
Total Cost of the Estimate	1470983	972003

Estimate for LT to underground 3.5 x 300 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE cable 3.5 Core 300 mm ²	Rmt	1000	978.75	978750.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material

1023685.95

1	Erection cost on material	15.00%			153553
2	Contractor supervision charges on material	5.00%			51184
	Sub-Total				1228423
3	Contractor's Profit	5.00%			61421
	Sub-Total				1289844
4	Transportation on material	4.00%			40947
5	T&P on material cost	1.00%			10237
6	Contingencies on material	2.00%			20474
	Service Cost				2856084
	Sub-Total				1361502
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			2723
	Sub-Total				1364225
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			13642
9	Insurance	1.00%			13642
10	Turnkey Charges	0.00%			0

Total

1391510

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	2105824	1391496
Total Cost of the Estimate	2105824	1391496

Estimate for LT to underground 3.5 x 240 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE cable 3.5 Core 240 mm ²	Rmt	1000	847.80	847800.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material

892735.95

1	Erection cost on material	15.00%			133910
2	Contractor supervision charges on material	5.00%			44637
	Sub-Total				1071283
3	Contractor's Profit	5.00%			53564
	Sub-Total				1124847
4	Transportation on material	4.00%			35709
5	T&P on material cost	1.00%			8927
6	Contingencies on material	2.00%			17855
	Service Cost				2490733
	Sub-Total				1187339
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			2375
	Sub-Total				1189713
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			11897
9	Insurance	1.00%			11897
10	Turnkey Charges	0.00%			0

Total

1213508

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1836447	1213496
Total Cost of the Estimate	1836447	1213496

Item Code No. 1409					
Estimate for LT to underground 4 x 16 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Armoured cable 4core 16sq.mm.	Rmt	1000	90.48	90480.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					135415.95

1	Erection cost on material	15.00%		20312
2	Contractor supervision charges on material	5.00%		6771
Sub-Total				162499
3	Contractor's Profit	5.00%		8125
Sub-Total				170624
4	Transportation on material	4.00%		5417
5	T&P on material cost	1.00%		1354
6	Contingencies on material	2.00%		2708
Service Cost				377811
Sub-Total				180103
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		360
Sub-Total				180463
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		1805
9	Insurance	1.00%		1805
10	Turnkey Charges	0.00%		0

Total **184073**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	278564	184071
Total Cost of the Estimate	278564	184071

Item Code No. 1410					
Estimate for LT to underground 3.5 x 35 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE armoured cable 3 1/2 C 35 sq.mm.	Rmt	1000	156.60	156600.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					201535.95

1	Erection cost on material	15.00%		30230
2	Contractor supervision charges on material	5.00%		10077
Sub-Total				241843
3	Contractor's Profit	5.00%		12092
Sub-Total				253935
4	Transportation on material	4.00%		8061
5	T&P on material cost	1.00%		2015
6	Contingencies on material	2.00%		4031
Service Cost				562285
Sub-Total				268043
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		536
Sub-Total				268579
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		2686
9	Insurance	1.00%		2686
10	Turnkey Charges	0.00%		0

Total **273950**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	414580	273948
Total Cost of the Estimate	414580	273948

Item Code No. 1411

Estimate for LT to underground 3.5 x 50 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt	1000	202.50	202500.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material **247435.95**

1	Erection cost on material	15.00%		37115
2	Contractor supervision charges on material	5.00%		12372
	Sub-Total			296923
3	Contractor's Profit	5.00%		14846
	Sub-Total			311769
4	Transportation on material	4.00%		9897
5	T&P on material cost	1.00%		2474
6	Contingencies on material	2.00%		4949
	Service Cost			690346
	Sub-Total			329090
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		658
	Sub-Total			329748
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		3297
9	Insurance	1.00%		3297
10	Turnkey Charges	0.00%		0

Total **336343**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	509000	336340
Total Cost of the Estimate	509000	336340

Item Code No. 1412
Estimate for LT to underground 3.5 x 120 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt	1000	444.15	444150.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,termination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					489085.95

1	Erection cost on material	15.00%		73363
2	Contractor supervision charges on material	5.00%		24454
Sub-Total				586903
3	Contractor's Profit	5.00%		29345
Sub-Total				616248
4	Transportation on material	4.00%		19563
5	T&P on material cost	1.00%		4891
6	Contingencies on material	2.00%		9782
Service Cost				1364550
Sub-Total				650484
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		1301
Sub-Total				651785
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		6518
9	Insurance	1.00%		6518
10	Turnkey Charges	0.00%		0

Total **664821**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1006099	664815
Total Cost of the Estimate	1006099	664815

Item Code No. 1413

Estimate for LT to underground 3.5 x 70 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	1000	269.28	269280.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material **314215.95**

1	Erection cost on material	15.00%		47132
2	Contractor supervision charges on material	5.00%		15711
	Sub-Total			377059
3	Contractor's Profit	5.00%		18853
	Sub-Total			395912
4	Transportation on material	4.00%		12569
5	T&P on material cost	1.00%		3142
6	Contingencies on material	2.00%		6284
	Service Cost			876663
	Sub-Total			417907
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		836
	Sub-Total			418743
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		4187
9	Insurance	1.00%		4187
10	Turnkey Charges	0.00%		0

Total **427118**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	646374	427114
Total Cost of the Estimate	646374	427114

Item Code No. 1415

Estimate for LT to underground 2C, 2.5sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	1000	71.64	71643.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					116578.95

1	Erection cost on material	15.00%	17487
2	Contractor supervision charges on material	5.00%	5829
Sub-Total			139895
3	Contractor's Profit	5.00%	6995
Sub-Total			146889
4	Transportation on material	4.00%	4663
5	T&P on material cost	1.00%	1166
6	Contingencies on material	2.00%	2332
Service Cost			325255
Sub-Total			155050
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	310
Sub-Total			155360
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1554
9	Insurance	1.00%	1554
10	Turnkey Charges	0.00%	0
Total			158467

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	239815	158466
Total Cost of the Estimate	239815	158466

Item Code No. 1416

Estimate for LT to underground 2C, 4 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	Armoured Copper control cable 2Cx4 sq.mm.	Rmt	1000	97.21	97214.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material **142149.95**

1	Erection cost on material	15.00%		21322
2	Contractor supervision charges on material	5.00%		7107
	Sub-Total			170580
3	Contractor's Profit	5.00%		8529
	Sub-Total			179109
4	Transportation on material	4.00%		5686
5	T&P on material cost	1.00%		1421
6	Contingencies on material	2.00%		2843
	Service Cost			396598
	Sub-Total			189059
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		378
	Sub-Total			189438
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		1894
9	Insurance	1.00%		1894
10	Turnkey Charges	0.00%		0

Total **193226**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	292417	193224
Total Cost of the Estimate	292417	193224

Item Code No. 1417					
Estimate for LT to underground 2C x 16 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Amourred 2C 16 Sqmm cable	Rmt	1000	70.20	70200.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
2	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					115135.95

1	Erection cost on material	15.00%		17270
2	Contractor supervision charges on material	5.00%		5757
Sub-Total				138163
3	Contractor's Profit	5.00%		6908
Sub-Total				145071
4	Transportation on material	4.00%		4605
5	T&P on material cost	1.00%		1151
6	Contingencies on material	2.00%		2303
Service Cost				321229
Sub-Total				153131
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		306
Sub-Total				153437
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		1534
9	Insurance	1.00%		1534
10	Turnkey Charges	0.00%		0
Total				156506

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	236846	156504
Total Cost of the Estimate	236846	156504

Item Code No. 1418

Estimate for LT to underground 4C x 16 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Armoured cable 4core 16sq.mm.	Rmt	1000	90.48	90480.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
2	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material **135415.95**

1	Erection cost on material	15.00%		20312
2	Contractor supervision charges on material	5.00%		6771
	Sub-Total			162499
3	Contractor's Profit	5.00%		8125
	Sub-Total			170624
4	Transportation on material	4.00%		5417
5	T&P on material cost	1.00%		1354
6	Contingencies on material	2.00%		2708
	Service Cost			377811
	Sub-Total			180103
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		360
	Sub-Total			180463
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		1805
9	Insurance	1.00%		1805
10	Turnkey Charges	0.00%		0

Total **184073**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	278564	184071
Total Cost of the Estimate	278564	184071

Estimate for 3 phase 5 wire with AAAC 55 mm2 conductor for phase and ACSR Weasel for neutral using RSJ pole 125 X 75 mm 9 mtr

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	RSJ 125x70, 9 m long	No.	20	7111.80	142236.00
2	AAAC 55 mm2	Rmt	4300	34.54	148524.00
3	ACSR Weasel	Rmt	1100	23.27	25596.23
4	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
5	L.T.Shackle Insulator	No	96	11.50	1104.00
6	Aluminium Bobbins for neutral	No.	24	36.80	883.20
7	L.T.Shackle hardware	pair	120	49.95	5994.00
8	Jointing Sleeves for AAC	No	4	36.80	147.20
9	PG Clamp	No	6	31.05	186.30
10	Earthing Sets L.T.	No	5	224.10	1120.50
11	L.T. Stay sets	No	8	637.20	5097.60
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	71.81	5170.50
13	Stay Insulators	No	8	11.50	92.00
14	Binding Wire	Kg.	1.5	80.50	120.75
15	Binding Tape	Kg	1.5	49.45	74.18
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
17	Concreting ration 1:3:6	Cmt	2.4	3935.10	
18	L.T.Spacers	No	57	126.50	7210.50
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	131.23	4199.32
b)	GNAT To GNAT or equivalent AAAC	No	24	131.23	3149.49
Cost of material					362814.67

1	Erection cost on material	15.00%	54422
2	Contractor supervision charges on material	5.00%	18141
Sub-Total			435378
3	Contractor's Profit	5.00%	21769
Sub-Total			457146
4	Transportation on material	4.00%	14513
5	T&P on material cost	1.00%	3628
6	Contingencies on material	2.00%	7256
Service Cost			1012253
Sub-Total			482544
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	965
Sub-Total			483509
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4835
9	Insurance	1.00%	4835
10	Turnkey Charges	0.00%	0
Total			493179

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	746346	493174
Total Cost of the Estimate	746346	493174

L.T. LINE 3 ph 4 W. on 125 X 70mm, 9m RSJ pole With AAAC 55 sqmm for phase & ACSR Weasel for neutral

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	RSJ 125x70, 9 m long	No.	20	7111.80	142236.00
2	AAAC 55 mm2	Rmt	3200	34.54	110529.48
3	ACSR Weasel	Rmt	1100	23.27	25596.23
4	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
5	L.T.Shackle Insulator	No	72	11.50	828.00
6	Aluminium Bobbins for neutral	No.	24	36.80	883.20
7	L.T.Shackle hardware	Pair	96	49.95	4795.20
8	Jointing Sleeves for AAC	No	4	36.80	147.20
9	PG Clamp	No	6	31.05	186.30
10	Earthing Sets L.T.	No	5	224.10	1120.50
11	L.T. Stay sets	No	8	637.20	5097.60
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	71.81	5170.50
13	Stay Insulators	No	8	11.50	92.00
14	Binding Wire	Kg.	1.5	80.50	120.75
15	Binding Tape	Kg	1.5	49.45	74.18
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
17	Concreting ration 1:3:6	Cmt	2.4	3935.10	
18	L.T.Spacers	No	57	126.50	7210.50
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	131.23	4199.32
b)	GNAT To GNAT or equivalent AAAC	No	24	131.23	3149.49
Cost of material					323345.35

1	Erection cost on material	15.00%	48502
2	Contractor supervision charges on material	5.00%	16167
Sub-Total			388014
3	Contractor's Profit	5.00%	19401
Sub-Total			407415
4	Transportation on material	4.00%	12934
5	T&P on material cost	1.00%	3233
6	Contingencies on material	2.00%	6467
Service Cost			902134
Sub-Total			430049
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	860
Sub-Total			430909
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4309
9	Insurance	1.00%	4309
10	Turnkey Charges	0.00%	0
Total			439528

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	665154	439523
Total Cost of the Estimate	665154	439523

L.T. LINE 3 ph 4 W. on 125 X 70mm, 8m RSJ pole With AAAC 55 sqmm for phase & ACSR Weasel for neutral

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	RSJ 125x70, 8 m long	No.	20	6322.05	126441.00
2	AAAC 55 mm2	Rmt	3200	34.54	110529.48
3	ACSR Weasel	Rmt	1100	23.27	25596.23
4	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
5	L.T.Shackle Insulator	No	72	11.50	828.00
6	Aluminium Bobbins for neutral	No.	24	36.80	883.20
7	L.T.Shackle hardware	Pair	96	49.95	4795.20
8	Jointing Sleeves for AAC	No	4	36.80	147.20
9	PG Clamp	No	6	31.05	186.30
10	Earthing Sets L.T.	No	5	224.10	1120.50
11	L.T. Stay sets	No	8	637.20	5097.60
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	71.81	5170.50
13	Stay Insulators	No	8	11.50	92.00
14	Binding Wire	Kg.	1.5	80.50	120.75
15	Binding Tape	Kg	1.5	49.45	74.18
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
17	Concreting ration 1:3:6	Cmt	2.4	3935.10	
18	L.T.Spacers	No	57	126.50	7210.50
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	131.23	4199.32
b)	GNAT To GNAT or equivalent AAAC	No	24	131.23	3149.49
Cost of material					307550.35

1	Erection cost on material	15.00%	46133
2	Contractor supervision charges on material	5.00%	15378
Sub-Total			369060
3	Contractor's Profit	5.00%	18453
Sub-Total			387513
4	Transportation on material	4.00%	12302
5	T&P on material cost	1.00%	3076
6	Contingencies on material	2.00%	6151
Service Cost			858065
Sub-Total			409042
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	818
Sub-Total			409860
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4099
9	Insurance	1.00%	4099
10	Turnkey Charges	0.00%	0
Total			418057

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	632662	418053
Total Cost of the Estimate	632662	418053

Item Code No.1425					
3 phase 5 wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on PSC pole, 8 mtr., 200 Kg					
Sr. No.	DESCRIPTION OF MATERIALS.	UNIT	QTY	Rate/Unit Rs.	Amount Rs.
1	PSC Pole 8 Mtr (200 KG)	No	20.00	2376.00	47520.00
2	AAAC 55 mm2	Rmt	3100.00	34.54	107075.44
3	ACSR Weasel	Rmt	2100.00	23.27	48865.53
4	MS angle 50x50x6 mm	Kg	150.00	69.93	10489.50
5	M.S. Flats(50 X 10mm)	Kg	40.00	65.48	2619.00
6	L.T.Shackle Insulator	No	96.00	11.50	1104.00
7	Aluminium Bobbins for neutral	No.	24	36.80	883.20
8	L.T.Shackle hardware	Pair	120.00	49.95	5994.00
9	Jointing Sleeves for AAC	No	5.00	36.80	184.00
10	PG Clamp	No	6.00	31.05	186.30
11	Earthing Sets L.T.	Set	5.00	224.10	1120.50
12	L.T. Stay sets	Set	8.00	637.20	5097.60
13	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	100.00	71.81	7181.25
14	Stay Insulators	No	8.00	11.50	92.00
15	Binding Wire	Kg	1.80	80.50	144.90
16	Binding Tape	Kg	1.80	49.45	89.01
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	100.00	71.75	7175.00
18	Red Oxide Paint for 2 coats	Ltr	25.00	97.75	2443.75
19	L.T.Spacers	No	76.00	126.50	9614.00
20	G.I.Nut Bolts	Kg	57.00	111.92	6379.16
21	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	131.23	4199.32
b)	GNAT To GNAT or equivalent AAAC	No	24	131.23	3149.49
21	Sundries	LS	1.00	885.50	885.50
	Cost of Material				272492.45

1	Erection cost on material	15.00%	40874
2	Contractor supervision charges on material	5.00%	13625
	Sub-Total		326991
3	Contractor's Profit	5.00%	16350
	Sub-Total		343340
4	Transportation on material	4.00%	10900
5	T&P on material cost	1.00%	2725
6	Contingencies on material	2.00%	5450
	Service Cost		760254
	Sub-Total		362415
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	725
	Sub-Total		363140
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3631
9	Insurance	1.00%	3631
10	Turnkey Charges	0.00%	0
	Total		370403

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	105.71%
	560544	370399
Total Cost of the Estimate	560544	370399

Item Code No.1425A					
3 phase 5 wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on PSC pole, 8 mtr., 140 Kg					
Sr. No.	DESCRIPTION OF MATERIALS.	UNIT	QTY	Rate/Unit Rs.	Amount Rs.
1	PSC Pole 8 Mtr (140 KG)	No	20.00	1980.00	39600.00
2	AAAC 55 mm2	Rmt	3100.00	34.54	107075.44
3	ACSR Weasel	Rmt	2100.00	23.27	48865.53
4	MS angle 50x50x6 mm	Kg	150.00	69.93	10489.50
5	M.S. Flats(50 X 10mm)	Kg	40.00	65.48	2619.00
6	L.T.Shackle Insulator	No	96.00	11.50	1104.00
7	Aluminium Bobbins for neutral	No.	24	36.80	883.20
7	L.T.Shackle hardware	Pair	120.00	49.95	5994.00
8	Jointing Sleeves for AAC	No	5.00	36.80	184.00
9	PG Clamp	No	6.00	31.05	186.30
10	Earthing Sets L.T.	Set	5.00	224.10	1120.50
11	L.T. Stay sets	Set	8.00	637.20	5097.60
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	100.00	71.81	7181.25
13	Stay Insulators	No	8.00	11.50	92.00
14	Binding Wire	Kg	1.80	80.50	144.90
15	Binding Tape	Kg	1.80	49.45	89.01
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100.00	71.75	7175.00
17	Red Oxide Paint for 2 coats	Ltr	25.00	97.75	2443.75
18	L.T.Spacers	No	76.00	126.50	9614.00
19	G.I.Nut Bolts	Kg	57.00	111.92	6379.16
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	131.23	4199.32
b)	GNAT To GNAT or equivalent AAAC	No	24	131.23	3149.49
21	Sundries	LS	1.00	885.50	885.50
Cost of Material					264572.45

1	Erection cost on material	15.00%	39686
2	Contractor supervision charges on material	5.00%	13229
Sub-Total			317487
3	Contractor's Profit	5.00%	15874
Sub-Total			333361
4	Transportation on material	4.00%	10583
5	T&P on material cost	1.00%	2646
6	Contingencies on material	2.00%	5291
Service Cost			738157
Sub-Total			351881
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	704
Sub-Total			352585
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3526
9	Insurance	1.00%	3526
10	Turnkey Charges	0.00%	0
Total			359637

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	544252
Total Cost of the Estimate	544252	359633

Item Code No. 1501					
L.T. LINE 1 ph 3 W. -with ACSR Weasel for phase & neutral with PSC Pole 8 Mtr (200 KG)					
SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT.(RS)
1	PSC Pole 8 Mtr (200 KG)	No.	22	2376.00	52272.00
2	ACSR Weasel	Rmt	3150	23.27	73298.30
3	M.S.Flat 50 x 6 mm	Kg	60	65.48	3928.50
4	L.T.Shackle Insulator	No	52	11.50	598.00
5	Aluminium Bobbins for neutral	No.	26	36.80	956.80
6	L.T.Shackle hardware	Pair	104	49.95	5194.80
7	Jointing Sleeves for AAC	No	3	36.80	110.40
8	PG Clamp	No	6	31.05	186.30
9	Earthing Sets L.T.	No	5	224.10	1120.50
10	L.T. Stay sets	No	8	637.20	5097.60
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	71.81	6894.00
12	Stay Insulators	No	8	11.50	92.00
13	Binding Wire	Kg.	2	80.50	161.00
14	Binding Tape	Kg	2	49.45	98.90
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
16	Concreting ration 1:3:6	LS	1	3935.10	3935.10
17	L.T.Spacers	No	63	126.50	7969.50
18	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	32	131.23	4199.32

Cost of material **176450.52**

1	Erection cost on material	15.00%	26468
2	Contractor supervision charges on material	5.00%	8823
	Sub-Total		211741
3	Contractor's Profit	5.00%	10587
	Sub-Total		222328
4	Transportation on material	4.00%	7058
5	T&P on material cost	1.00%	1765
6	Contingencies on material	2.00%	3529
	Service Cost		492297
	Sub-Total		234679
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	469
	Sub-Total		235149
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2351
9	Insurance	1.00%	2351
10	Turnkey Charges	0.00%	0

Total **239852**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	362976	239849
Total Cost of the Estimate	362976	239849

Item Code No. 1501A					
L.T. LINE 1 ph 3 W. -with ACSR Weasel for phase & neutral with PSC Pole 8 Mtr (140 KG)					
SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT(RS)	AMT. (RS)
1	PSC Pole 8 Mtr (140 KG)	No.	22	1980.00	43560.00
2	ACSR Weasel	Rmt	3150	23.27	73298.30
3	M.S.Flat 50 x 6 mm	Kg	60	65.48	3928.50
4	L.T.Shackle Insulator	No	52	11.50	598.00
5	Aluminium Bobbins for neutral	No.	26	36.80	956.80
6	L.T.Shackle hardware	Pair	104	49.95	5194.80
7	Jointing Sleeves for AAC	No	3	36.80	110.40
8	PG Clamp	No	6	31.05	186.30
9	Earthing Sets L.T.	No	5	224.10	1120.50
10	L.T. Stay sets	No	8	637.20	5097.60
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	71.81	6894.00
12	Stay Insulators	No	8	11.50	92.00
13	Binding Wire	Kg.	2	80.50	161.00
14	Binding Tape	Kg	2	49.45	98.90
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
16	Concreting ration 1:3:6	LS	1	3935.10	3935.10
17	L.T.Spacers	No	63	126.50	7969.50
18	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	32	131.23	4199.32

Cost of material **167738.52**

1	Erection cost on material	15.00%	25161
2	Contractor supervision charges on material	5.00%	8387
	Sub-Total		201286
3	Contractor's Profit	5.00%	10064
	Sub-Total		211351
4	Transportation on material	4.00%	6710
5	T&P on material cost	1.00%	1677
6	Contingencies on material	2.00%	3355
	Service Cost		467990
	Sub-Total		223092
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	446
	Sub-Total		223538
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2235
9	Insurance	1.00%	2235
10	Turnkey Charges	0.00%	0

Total **228009**

Particulars	Tender/ Estimate Amount	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	345055	228007
Total Cost of the Estimate	345055	228007

Item Code No. 1502					
L.T. LINE 1 ph 2 W. - with ACSR Weasel for phase & neutral with PSC Pole 8 Mtr (200 KG)					
SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT	AMT. (RS)
1	PSC Pole 8 Mtr (200 KG)	No.	22	2376.00	52272.00
2	ACSR Weasel	Rmt	2100	23.27	48865.53
3	M.S.Flat 50 x 6 mm	Kg	40	65.48	2619.00
4	L.T.Shackle Insulator	No	26	11.50	299.00
5	Aluminium Bobbins for neutral	No.	26	36.80	956.80
6	L.T.Shackle hardware	Pair	78	49.95	3896.10
7	Jointing Sleeves for AAC	No	2	36.80	73.60
8	PG Clamp	No	6	31.05	186.30
9	Earthing Sets L.T.	No	5	224.10	1120.50
10	L.T. Stay sets	No	8	637.20	5097.60
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	71.81	6894.00
12	Stay Insulators	No	8	11.50	92.00
13	Binding Wire	Kg.	1.5	80.50	120.75
14	Binding Tape	Kg	1.5	49.45	74.18
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
16	Concreting ration 1:3:6	LS	1	3935.10	3935.10
17	L.T.Spacers	No	63	126.50	7969.50
18	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	24	131.23	3149.49

Cost of material **147958.95**

1	Erection cost on material	15.00%	22194
2	Contractor supervision charges on material	5.00%	7398
	Sub-Total		177551
3	Contractor's Profit	5.00%	8878
	Sub-Total		186428
4	Transportation on material	4.00%	5918
5	T&P on material cost	1.00%	1480
6	Contingencies on material	2.00%	2959
	Service Cost		412805
	Sub-Total		196785
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	394
	Sub-Total		197179
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1972
9	Insurance	1.00%	1972
10	Turnkey Charges	0.00%	0

Total **201123**

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	105.71%
Total Cost of the Estimate	304366	201121

L.T. LINE 1 ph 2 W. - with ACSR Weasel for phase & neutral with PSC Pole 8 Mtr (140 KG)

SR.NO.	DESCRIPTION OF MATERIALS.	UNIT	QTY	RT/UNIT	AMT. (RS)
1	PSC Pole 8 Mtr (140 KG)	No.	22	1980.00	43560.00
2	ACSR Weasel	Rmt	2100	23.27	48865.53
3	M.S.Flat 50 x 6 mm	Kg	40	65.48	2619.00
4	L.T.Shackle Insulator	No	26	11.50	299.00
5	Aluminium Bobbins for neutral	No.	26	36.80	956.80
5	L.T.Shackle hardware	Pair	78	49.95	3896.10
6	Jointing Sleeves for AAC	No	2	36.80	73.60
7	PG Clamp	No	6	31.05	186.30
8	Earthing Sets L.T.	No	5	224.10	1120.50
9	L.T. Stay sets	No	8	637.20	5097.60
10	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	71.81	6894.00
11	Stay Insulators	No	8	11.50	92.00
12	Binding Wire	Kg.	1.5	80.50	120.75
13	Binding Tape	Kg	1.5	49.45	74.18
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
15	Concreting ration 1:3:6	LS	1	3935.10	3935.10
16	L.T.Spacers	No	63	126.50	7969.50
17	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
18	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	24	131.23	3149.49

Cost of material

139246.95

1	Erection cost on material	15.00%	20887
2	Contractor supervision charges on material	5.00%	6962
	Sub-Total		167096
3	Contractor's Profit	5.00%	8355
	Sub-Total		175451
4	Transportation on material	4.00%	5570
5	T&P on material cost	1.00%	1392
6	Contingencies on material	2.00%	2785
	Service Cost		388499
	Sub-Total		185198
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	370
	Sub-Total		185569
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1856
9	Insurance	1.00%	1856
10	Turnkey Charges	0.00%	0

Total

189280

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	286445	189278
Total Cost of the Estimate	286445	189278

Item Code No. 1503					
1 phase 2 Wire LT line with ACSR Weasel for phase and GNAT for neutral on 125 X 70 mm, RSJ 9 Mtr long Pole					
S.No.	Description	Unit	Qty.	Rate	Amount
1	RSJ 125x70, 9 m long	No	16	7111.80	113788.80
2	MS Flat 50 X 8 mm	Kg	24	65.48	1571.40
3	ACSR Weasel	Rmt	1100	23.27	25596.23
4	ACSR Weasel	Rmt	1100	23.27	25596.23
5	L.T.Shackle Insulator	No	20	11.50	230.00
6	Aluminium Bobbins for neutral	No.	20	36.80	736.00
7	L.T.Shackle hardware	Pair	60	49.95	2997.00
8	Jointing Sleeves for AAC	No	2	36.80	73.60
9	PG Clamp	No	4	31.05	124.20
10	Earthing Sets L.T.	Set	5	224.10	1120.50
11	L.T. Stay sets	Set	8	637.20	5097.60
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	71.81	5170.50
13	Stay Insulators	No	8	11.50	92.00
14	Binding Wire	Kg	2	80.50	161.00
15	Binding Tape	Kg	2	49.45	98.90
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	71.75	5381.25
17	L.T.Spacers	No	45	126.50	5692.50
18	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	131.23	1574.75
b)	GNAT To GNAT or equivalent AAAC	No	12	131.23	1574.75
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
Cost of material					199839.71

1	Erection cost on material	15.00%	29976
2	Contractor supervision charges on material	5.00%	9992
Sub-Total			239808
3	Contractor's Profit	5.00%	11990
Sub-Total			251798
4	Transportation on material	4.00%	7994
5	T&P on material cost	1.00%	1998
6	Contingencies on material	2.00%	3997
Service Cost			557553
Sub-Total			265787
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	532
Sub-Total			266318
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2663
9	Insurance	1.00%	2663
10	Turnkey Charges	0.00%	0

Particulars	Total	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	411090	271642
Total Cost of the Estimate	411090	271642

Item Code No. 1504					
1 phase 2 Wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on PSC Pole 8 Mtr (200 KG).					
S.No.	Description	Unit	Qty.	Rate	Amount
1	PSC Pole 8 Mtr (200 KG)	No	16	2376.00	38016.00
2	MS Flat 50 X 8 mm	Kg	24	65.48	1571.40
3	AAAC 55 mm ²	Rmt	1100.00	34.54	37994.51
4	ACSR Weasel	Rmt	1100	23.27	25596.23
5	L.T.Shackle Insulator	No	20	11.50	230.00
6	Aluminium Bobbins for neutral	No.	20	36.80	736.00
7	L.T.Shackle hardware	Pair	60	49.95	2997.00
8	Jointing Sleeves for AAC	No	2	36.80	73.60
9	PG Clamp	No	4	31.05	124.20
10	Earthing Sets L.T.	Set	5	224.10	1120.50
11	L.T. Stay sets	Set	8	637.20	5097.60
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	71.81	5170.50
13	Stay Insulators	No	8	11.50	92.00
14	Binding Wire	Kg	2	80.50	161.00
15	Binding Tape	Kg	2	49.45	98.90
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	71.75	5381.25
17	L.T.Spacers	No	45	126.50	5692.50
18	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	131.23	1574.75
b)	GNAT To GNAT or equivalent AAAC	No	12	131.23	1574.75
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
	Cost of material				136465.19

1	Erection cost on material	15.00%	20470
2	Contractor supervision charges on material	5.00%	6823
	Sub-Total		163758
3	Contractor's Profit	5.00%	8188
	Sub-Total		171946
4	Transportation on material	4.00%	5459
5	T&P on material cost	1.00%	1365
6	Contingencies on material	2.00%	2729
	Service Cost		380738
	Sub-Total		181499
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	363
	Sub-Total		181862
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1819
9	Insurance	1.00%	1819
10	Turnkey Charges	0.00%	0

Particulars	Total	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	280723	185497
Total Cost of the Estimate	280723	185497

Item Code No. 1504A					
1 phase 2 Wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on PSC Pole 8 Mtr (140 KG).					
S.No.	Description	Unit	Qty.	Rate	Amount
1	PSC Pole 8 Mtr (140 KG)	No	16	1980.00	31680.00
2	MS Flat 50 X 8 mm	Kg	24	65.48	1571.40
3	AAAC 55 mm ²	Rmt	1100.00	34.54	37994.51
4	ACSR Weasel	Rmt	1100	23.27	25596.23
5	L.T.Shackle Insulator	No	20	11.50	230.00
6	Aluminium Bobbins for neutral	No.	20	36.80	736.00
7	L.T.Shackle hardware	Pair	60	49.95	2997.00
8	Jointing Sleeves for AAC	No	2	36.80	73.60
9	PG Clamp	No	4	31.05	124.20
10	Earthing Sets L.T.	Set	5	224.10	1120.50
11	L.T. Stay sets	Set	8	637.20	5097.60
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	71.81	5170.50
13	Stay Insulators	No	8	11.50	92.00
14	Binding Wire	Kg	2	80.50	161.00
15	Binding Tape	Kg	2	49.45	98.90
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	71.75	5381.25
17	L.T.Spacers	No	45	126.50	5692.50
18	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	131.23	1574.75
b)	GNAT To GNAT or equivalent AAAC	No	12	131.23	1574.75
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
Cost of material					130129.19

1	Erection cost on material	15.00%	19519
2	Contractor supervision charges on material	5.00%	6506
Sub-Total			156155
3	Contractor's Profit	5.00%	7808
Sub-Total			163963
4	Transportation on material	4.00%	5205
5	T&P on material cost	1.00%	1301
6	Contingencies on material	2.00%	2603
Service Cost			363060
Sub-Total			173072
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	346
Sub-Total			173418
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1734
9	Insurance	1.00%	1734
10	Turnkey Charges	0.00%	0

Particulars	Total	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	105.71%	35.930%
	267689	176885
Total Cost of the Estimate	267689	176885

Item Code No. 1505					
1 phase 2 Wire LT line with AAAC 55 sqmm for phase and ACSR Weasel for neutral on RSJ 125 X 70, 8mtr.					
S.No.	Description	Unit	Qty.	Rate	Amount
1	RSJ 125x70, 8 m long	No	16	6322.05	101152.80
2	MS Flat 50 X 8 mm	Kg	24	65.48	1571.40
3	ACSR Weasel	Rmt	1100	23.27	25596.23
4	AAAC 55 mm2	Rmt	1100	34.54	37994.51
5	L.T.Shackle Insulator	No	20	11.50	230.00
6	Aluminium Bobbins for neutral	No.	20	36.80	736.00
7	L.T.Shackle hardware	Pair	60	49.95	2997.00
8	Jointing Sleeves for AAC	No	2	36.80	73.60
9	PG Clamp	No	4	31.05	124.20
10	Earthing Sets L.T.	Set	5	224.10	1120.50
11	L.T. Stay sets	Set	8	637.20	5097.60
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	71.81	5170.50
13	Stay Insulators	No	8	11.50	92.00
14	Binding Wire	Kg	2	80.50	161.00
15	Binding Tape	Kg	2	49.45	98.90
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	71.75	5381.25
17	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	131.23	1574.75
b)	GNAT To GNAT or equivalent AAAC	No	12	131.23	1574.75
18	L.T.Spacers	No	45	126.50	5692.50
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
	Cost of material				199601.99

1	Erection cost on material	15.00%	29940
2	Contractor supervision charges on material	5.00%	9980
	Sub-Total		239522
3	Contractor's Profit	5.00%	11976
	Sub-Total		251499
4	Transportation on material	4.00%	7984
5	T&P on material cost	1.00%	1996
6	Contingencies on material	2.00%	3992
	Service Cost		556890
	Sub-Total		265471
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	531
	Sub-Total		266002
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2660
9	Insurance	1.00%	2660
10	Turnkey Charges	0.00%	0

Particulars	Total	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	410601	271319
Total Cost of the Estimate	410601	271319

Item Code No. 1603					
11 KV ,25 KVA Dist. Transformer centers on 100x116mm, 9 mtrs RSJ poles with MCCB Dist. Box.					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	11 / .433 KV 25 KVA Transformer	No.	1	58891.25	58891.25
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	11 kV Pin Insulators with G.I. Pins	NO.	3	108.66	325.98
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	13497.00	13497.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1458.20	1458.20
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	11KV H.G.Fuses	Set.	1	2356.80	2356.80
15	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
16	Danger Board in yard.	No.	2	57.50	115.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
18	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
19	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
20	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
21	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	13303.92	13303.92
22	Sundries	L.S.	1	885.50	885.50

Cost of material			158734.34
1	Erection cost on material	15.00%	23810
2	Contractor supervision charges on material	5.00%	7937
Sub-Total			190481
3	Contractor's Profit	5.00%	9524
Sub-Total			200005
4	Transportation on material	4.00%	6349
5	T&P on material cost	1.00%	1587
6	Contingencies on material	2.00%	3175
Service Cost			442869
Sub-Total			211117
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	422
Sub-Total			211539
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2115
9	Insurance	1.00%	2115
10	Turnkey Charges	0.00%	0

Total			215770
Particulars	DPR Amount	Tender/ Estimate Amount	
	105.71%	35.930%	
Cost with overheads on Material	326532	215768	
Total Cost of the Estimate	326532	215768	

Cost data for 22 KV Single circuit Pin type with 55sq.mm AAAC lines on 9 mtr PSC poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	PSC Pole 9 Mtr (200 KG)	No.	18	2712.00	48816.00
2	MS Channel 100x50x6 mm	Kg.	140	69.93	9790.20
3	M.S.Channel 75x40x6 mm	Kg.	150	69.93	10489.50
4	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
5	22 KV V cross arm with clamp	No.	12	1223.10	14677.20
6	22 KV Top Fitting	No.	12	515.70	6188.40
7	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
8	G.I.Nut Bolts	Kg.	90	111.92	10072.35
9	22 KV Pin Insulators with G.I. Pins	No.	51	386.40	19706.40
10	Disc Insulator 11 KV 45 KN	No.	72	280.60	20203.20
11	Strain Hardware for 55 Sq.mm AAAC	Set	24	161.00	3864.00
12	AAAC 55 mm2	Rmt	3100	34.54	107075.44
13	Sieve Joints	No.	3	132.25	396.75
14	H.T.Stay Set	Set	12	807.30	9687.60
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	71.81	6319.50
16	Earthing Sets H.T	Set	18	461.70	8310.60
17	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
18	Danger Board in yard.	No.	18	57.50	1035.00
19	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
23	Minor Fabrication, binding tape, wire, etc.				
24	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	131.23	3149.49

Cost of material **377216.41**

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)

Cost of material 377216.41

1	Erection cost on material	15.00%	56582
2	Contractor supervision charges on material	5.00%	18861
	Sub-Total		452660
3	Contractor's Profit	5.00%	22633
	Sub-Total		475293
4	Transportation on material	4.00%	15089
5	T&P on material cost	1.00%	3772
6	Contingencies on material	2.00%	7544
	Service Cost		1052434
	Sub-Total		501698
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1003
	Sub-Total		502701
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	5027
9	Insurance	1.00%	5027
10	Turnkey Charges	0.00%	0

Total **512755**

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	775972
Total Cost of the Estimate	775972	512750

Cost data for 22 KV Single circuit Pin type with 55sq.mm AAAC lines on 9 mtr RSJ poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	18	12492.90	224872.20
2	RSJ 116x100, 8 m long	No.	5	11105.10	55525.50
3	MS Channel 100x50x6 mm	Kg.	140	69.93	9790.20
4	M.S.Channel 75x40x6 mm	Kg.	150	69.93	10489.50
5	MS angle 50x50x6 mm	Kg.	72	69.93	5034.96
6	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
7	22 KV V cross arm with clamp	No.	12	1223.10	14677.20
8	22 KV Top Fitting	No.	12	515.70	6188.40
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	22 kV Pin Insulators with G.I. Pins	No.	51	386.40	19706.40
11	Disc Insulator 11 KV 45 KN	No.	72	280.60	20203.20
12	Strain Hardware for 55 Sq.mm AAAC	Set	36	161.00	5796.00
13	AAAC 55 mm2	Rmt	3100	34.54	107075.44
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T Stay Set	Set	11	807.30	8880.30
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	71.81	6319.50
17	Earthing Sets H.T	Set	18	461.70	8310.60
18	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
19	Danger Board in yard.	No.	18	57.50	1035.00
20	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
22	Black Bituminous Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Minor Fabrication, binding tape, wire, etc.				
27	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	131.23	3149.49

Cost of material **613455.61**

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Cost of material 613455.61

1	Erection cost on material	15.00%	92018
2	Contractor supervision charges on material	5.00%	30673
	Sub-Total		736147
3	Contractor's Profit	5.00%	36807
	Sub-Total		772954
4	Transportation on material	4.00%	24538
5	T&P on material cost	1.00%	6135
6	Contingencies on material	2.00%	12269
	Service Cost		1711541
	Sub-Total		815896
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1632
	Sub-Total		817528
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	8175
9	Insurance	1.00%	8175
10	Turnkey Charges	0.00%	0

Total **833878**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1261940	833870
Total Cost of the Estimate	1261940	833870

Cost data for 22 KV Single circuit Pin type with 100sq.mm AAAC lines on 9 mtr RSJ poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	18	12492.90	224872.20
2	RSJ 116x100, 8 m long	No.	5	11105.10	55525.50
3	MS Channel 100x50x6 mm	Kg.	140	69.93	9790.20
4	M.S.Channel 75x40x6 mm	Kg.	150	69.93	10489.50
5	MS angle 50x50x6 mm	Kg.	66	69.93	4615.38
6	M.S. Flats(50 X 10mm)	Kg.	171	65.48	11196.23
7	22 KV V cross arm with clamp	No.	12	1223.10	14677.20
8	22 KV Top Fitting	No.	12	515.70	6188.40
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	22 kV Pin Insulators with G.I. Pins	No.	51	386.40	19706.40
11	Disc Insulator 11 KV 45 KN	No.	72	280.60	20203.20
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	36	369.91	13316.72
13	AAAC 100 mm2	Rmt	3100	66.69	206746.25
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T Stay Set	Set	11	807.30	8880.30
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	71.81	6319.50
17	Earthing Sets H.T	Set	18	461.70	8310.60
18	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
19	Danger Board in yard.	No.	18	57.50	1035.00
20	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
22	Black Bituminus Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Minor Fabrication, binding tape, wire, etc.				
27	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14

Cost of material **729001.22**

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Cost of material 729001.22

1	Erection cost on material	15.00%	109350
2	Contractor supervision charges on material	5.00%	36450
	Sub-Total		874801
3	Contractor's Profit	5.00%	43740
	Sub-Total		918542
4	Transportation on material	4.00%	29160
5	T&P on material cost	1.00%	7290
6	Contingencies on material	2.00%	14580
	Service Cost		2033913
	Sub-Total		969572
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1939
	Sub-Total		971511
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9715
9	Insurance	1.00%	9715
10	Turnkey Charges	0.00%	0

Total **990941**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1499628	990931
Total Cost of the Estimate	1499628	990931

Cost data for 11 KV Single circuit Pin type with 55sq.mm AAAC lines on 9 mtr PSC poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	PSC Pole 9 Mtr (200 KG)	No.	18	2712.00	48816.00
2	M.S.Channel 75x40x6 mm	Kg.	140	69.93	9790.20
3	11 kv guarding channel MS 75x40	Kg.	150	69.93	10489.50
4	11 KV V cross arm with clamp	No.	12	862.65	10351.80
5	11 KV Top fitting with clamp	No.	12	122.85	1474.20
6	MS angle 50x50x6 mm	Kg.	66	69.93	4615.38
7	M.S. Flats(50 X 10mm)	Kg.	171	65.48	11196.23
8	G.I.Nut Bolts	Kg.	90	111.92	10072.35
9	11 KV Pin Insulators with G.I. Pins	No.	51	108.66	5541.74
10	Disc Insulator 11 KV 45 KN	No.	72	280.60	20203.20
11	Strain Hardware for 55 Sq.mm AAAC	Set	36	161.00	5796.00
12	AAAC 55 mm2	Rmt	3100	34.54	107075.44
13	Sieve Joints	No.	3	132.25	396.75
14	H.T.Stay Set	Set	11	807.30	8880.30
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	71.81	6319.50
16	Earthing Sets H.T	Set	18	461.70	8310.60
17	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
18	Danger Board in yard.	No.	18	57.50	1035.00
19	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
21	Painting of Supports & fabricated materials	LS	1	178.25	178.25
22	Sundries	LS	1	885.50	885.50
23	Minor Fabrication, binding tape, wire, etc.				
24	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	131.23	3149.49

Cost of material **366640.41**

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)

Cost of material 366640.41

1	Erection cost on material	15.00%	54996
2	Contractor supervision charges on material	5.00%	18332
	Sub-Total		439968
3	Contractor's Profit	5.00%	21998
	Sub-Total		461967
4	Transportation on material	4.00%	14666
5	T&P on material cost	1.00%	3666
6	Contingencies on material	2.00%	7333
	Service Cost		1022927
	Sub-Total		487632
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	975
	Sub-Total		488607
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4886
9	Insurance	1.00%	4886
10	Turnkey Charges	0.00%	0

Total **498379**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	754216	498374
Total Cost of the Estimate	754216	498374

Cost data for 11 KV Single circuit Pin type with 55sq.mm AAAC lines on 9 mtr RSJ poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	18	12492.90	224872.20
2	RSJ 116x100, 8 m long	No.	2	11105.10	22210.20
3	M.S.Channel 75x40x6 mm	Kg.	140	69.93	9790.20
4	11 kv guarding channel MS 75x40	Kg.	150	69.93	10489.50
5	11 KV V cross arm with clamp	No.	12	862.65	10351.80
6	11 KV Top fitting with clamp	No.	12	122.85	1474.20
7	MS angle 50x50x6 mm	Kg.	66	69.93	4615.38
8	M.S. Flats(50 X 10mm)	Kg.	171	65.48	11196.23
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	11 kv Pin Insulators with G.I. Pins	No.	51	108.66	5541.74
11	Disc Insulator 11 KV 45 KN	No.	72	280.60	20203.20
12	Strain Hardware for 55 Sq.mm AAAC	Set	36	161.00	5796.00
13	AAAC 55 mm2	Rmt	3100	34.54	107075.44
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T Stay Set	Set	11	807.30	8880.30
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	71.81	6319.50
17	Earthing Sets H.T	Set	18	461.70	8310.60
18	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
19	Danger Board in yard.	No.	18	57.50	1035.00
20	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
22	Black Bituminus Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Minor Fabrication, binding tape, wire, etc.				
27	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	131.23	3149.49

Cost of material **565290.12**

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 2 strut support considered.

Cost of material 565290.12

1	Erection cost on material	15.00%	84794
2	Contractor supervision charges on material	5.00%	28265
	Sub-Total		678348
3	Contractor's Profit	5.00%	33917
	Sub-Total		712266
4	Transportation on material	4.00%	22612
5	T&P on material cost	1.00%	5653
6	Contingencies on material	2.00%	11306
	Service Cost		1577159
	Sub-Total		751836
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1504
	Sub-Total		753340
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	7533
9	Insurance	1.00%	7533
10	Turnkey Charges	0.00%	0

Total **768406**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1162858	768399
Total Cost of the Estimate	1162858	768399

Cost data for 11 KV Single circuit Pin type with 100sq.mm AAAC lines on 9 mtr RSJ poles

(A) HT Line :					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	RSJ 116x100, 9 m long	No.	18	12492.90	224872.20
2	RSJ 116x100, 8 m long	No.	2	11105.10	22210.20
3	M.S.Channel 75x40x6 mm	Kg.	140	69.93	9790.20
4	11 kv guarding channel MS 75x40	Kg.	150	69.93	10489.50
5	11 KV V cross arm with clamp	No.	12	862.65	10351.80
6	11 KV Top fitting with clamp	No.	12	122.85	1474.20
7	MS angle 50x50x6 mm	Kg.	66	69.93	4615.38
8	M.S. Flats(50 X 10mm)	Kg.	171	65.48	11196.23
9	G.I.Nut Bolts	Kg.	90	111.92	10072.35
10	11 kV Pin Insulators with G.I. Pins	No.	51	108.66	5541.74
11	Disc Insulator 11 KV 45 KN	No.	72	280.60	20203.20
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	36	369.91	13316.72
13	AAAC 100 mm2	Rmt	3100	66.69	206746.25
14	Sleeve Joints	No.	3	132.25	396.75
15	H.T Stay Set	Set	11	807.30	8880.30
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	71.81	6319.50
17	Earthing Sets H.T	Set	18	461.70	8310.60
18	G.I.Barbed Wire 'A' type.	Kg.	77	80.34	6185.99
19	Danger Board in yard.	No.	18	57.50	1035.00
20	Concreting ration 1:3:6	Cmt.	20	3935.10	78702.00
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	71.75	7175.00
22	Black Bituminus Paint	Ltr.	6	97.75	586.50
23	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
24	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
25	Sundries	LS	1	885.50	885.50
26	Minor Fabrication, binding tape, wire, etc.				
27	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14

Cost of material **672481.66**

Assumption:

- 1) 4- cut points (including 1- rightangle cut point in 1 km.)
- 2) Average span lengthe - 60 mtrs.
- 3) Conceriting for all poles, struts & stages. (1:4:8)
- 4) 5 strut support considered.

Cost of material 672481.66

1	Erection cost on material	15.00%	100872
2	Contractor supervision charges on material	5.00%	33624
	Sub-Total		806978
3	Contractor's Profit	5.00%	40349
	Sub-Total		847327
4	Transportation on material	4.00%	26899
5	T&P on material cost	1.00%	6725
6	Contingencies on material	2.00%	13450
	Service Cost		1876224
	Sub-Total		894401
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1789
	Sub-Total		896189
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	8962
9	Insurance	1.00%	8962
10	Turnkey Charges	0.00%	0

Total **914113**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1383362	914104
Total Cost of the Estimate	1383362	914104

Item Code No. 1611					
11 KV ,25 KVA Dist. Transformer centers on 116 X 100 mm,11 mtrs RSJ poles with MCCB Dist box.					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	11 / .433 KV 25 KVA Transformer	No.	1	58891.25	58891.25
2	RSJ 116x100, 11 m long	No	2	15269.85	30539.70
3	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
4	M.S.Channel 75x40x6 mm	kg.	44	69.93	3076.92
5	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
6	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
7	11 kV Pin Insulators with G.I. Pins	NO.	3	108.66	325.98
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	369.91	1109.73
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	13497.00	13497.00
10	L.As. 11 KV (Gapless type) with disconnector	Set.	1	1458.20	1458.20
11	H.T.Stay Set	No	4	807.30	3229.20
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
13	Earthing Sets H.T	No.	3	461.70	1385.10
14	11KV H.G.Fuses	Set.	1	2356.80	2356.80
	11KV A.B. Switch, 400 A	No.	1	11088.00	11088.00
15	Danger Board in yard.	No.	2	57.50	115.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
17	G.I.Barbed Wire 'A' type.	kg.	15	80.34	1205.06
18	Concreting ration 1:3:6	CMT.	2	3935.10	7870.20
19	Painting/Hardware & support with numbering of pole	L.S.	1	258.75	258.75
20	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	13303.92	13303.92
21	Sundries	L.S.	1	885.50	885.50
Cost of material					164288.23
1	Erection cost on material		15.00%		24643
2	Contractor supervision charges on material		5.00%		8214
	Sub-Total				197146
3	Contractor's Profit		5.00%		9857
	Sub-Total				207003
4	Transportation on material		4.00%		6572
5	T&P on material cost		1.00%		1643
6	Contingencies on material		2.00%		3286
	Service Cost				458364
	Sub-Total				218503
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		437
	Sub-Total				218940
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		2189
9	Insurance		1.00%		2189
10	Turnkey Charges		0.00%		0
	Total				223319

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	337957
Total Cost of the Estimate	337957	223317

Item Code No. 1701					
Cost data for 11 KV Capacitor Bank at Dist. substation (on Existing pole).					
Sr.No	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	Capacitor banks without Switchgear 11 KV 0.6 MVAR	No.	1	52554.00	52554.00
2	Automatic capacitor switch 11 KV	No.	1	237535.95	237535.95
3	M.S.Channel 75x40x6 mm	Kg	50	69.93	3496.50
4	MS angle 50x50x6 mm	Kg.	10	69.93	699.30
5	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
6	Earthing Sets H.T	No.	2	461.70	923.40
7	Earthing materials	L.S.	1	454.25	454.25
8	Miscelleneous material	L.S.	1	517.50	517.50

Cost of material **296835.65**

1	Erection cost on material	5.00%	14842
2	Contractor supervision charges on material	5.00%	14842
	Sub-Total		326519
3	Contractor's Profit	5.00%	16326
	Sub-Total		342845
4	Transportation on material	4.00%	11873
5	T&P on material cost	1.00%	2968
6	Contingencies on material	2.00%	5937
	Service Cost		736152
	Sub-Total		363624
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	727
	Sub-Total		364351
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3644
9	Insurance	1.00%	3644
10	Turnkey Charges	0.00%	0

Total **371638**

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	564136	371638
Total Cost of the Estimate	564136	371638

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Item Code No. 1702					
Cost data for 11 KV Capacitor Bank at Dist. substation (on New double pole).					
Sr.No	Particulars	Unit	Qty.	RT/U Rs.	Amount
A) Capacitor bank					
1	Capacitor banks without Switchgear 11 KV 0.6 MVAR	No.	1	52554.00	52554.00
2	Automatic capacitor switch 11 KV	No.	1	237535.95	237535.95
B) DOUPLE POLE STRUCTURE , 11 M LONG RSJ POLE					
3	RSJ 152x152, 11 m long	No.	2	24630.75	49261.50
4	M.S. Flats(50 X 10mm)	Kg.	10	65.48	654.75
5	MS Channel 100x50x6 mm	Kg.	110	69.93	7692.30
6	M.S.Channel 75x40x6 mm	Kg.	75	69.93	5244.75
7	MS angle 50x50x6 mm	Kg.	50	69.93	3496.50
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
9	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
10	H.T.Stay Set	No.	2	807.30	1614.60
11	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	71.81	1795.31
12	Earthing Sets H.T	No	2	461.70	923.40
13	G.I.Wire 8 SWG/ 6 SWG	kg.	6	71.75	430.50
14	G.I.Barbed Wire 'A' type.	kg.	7	80.34	562.36
15	Danger Board in yard.	No.	2	57.50	115.00
16	Black Bituminus Paint	Ltr.	2	97.75	195.50
17	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
18	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
19	11 KV Pin Insulators with G.I. Pins	No.	2	108.66	217.32
20	L.As. 11 KV (Gapless type) with disconnector	No.	1	1458.20	1458.20
21	Concreting ration 1:3:6	Cmt.	2	3935.10	7870.20
20	Sundries	L.S.	1	885.50	885.50

Cost of material **377693.47**

1	Erection cost on material	5.00%	18885
2	Contractor supervision charges on material	5.00%	18885
Sub-Total			415463
3	Contractor's Profit	5.00%	20773
Sub-Total			436236
4	Transportation on material	4.00%	15108
5	T&P on material cost	1.00%	3777
6	Contingencies on material	2.00%	7554
Service Cost			936680
Sub-Total			462675
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	925
Sub-Total			463600
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4636
9	Insurance	1.00%	4636
10	Turnkey Charges	0.00%	0

Total **472872**

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	717806	472872
Total Cost of the Estimate	717806	472872

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Cost Data for 11 KV Station Type 1.2 MVAR Capacitor Bank with 0.2 % Reactor for rural area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	11 KV Lightning Arrestors (Station type)	Set	1	7999.72	7999.72
2	11 kV, Single phase, outdoor NCT	Nos.	1	15600.00	15600.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	12733.20	38199.60
3	1.2 MVAR, 11 kV Capacitor Bank	Set	1	142042.80	142042.80
4	11KV A.B. Switch, 400 A	Nos.	1	11088.00	11088.00
2	11 KV Isolators with EB (800 A)	Set	1	36030.00	36030.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	31956.00	31956.00
6	11 KV VCB 800 A Outdoor	Set	1	135085.90	135085.90
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	42867.90	42867.90
8	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	59812.80	59812.80
9	0.9688 KVAR, 11 kv, 1 Ph, Al winded series reactor	Set	1	55464.00	55464.00
10	Earthing Sets H.T	L.S.	17	461.70	7848.90

Cost of material **583995.62**

1	Erection cost on material	5.00%	29200
2	Contractor supervision charges on material	5.00%	29200
	Sub-Total		642395
3	Contractor's Profit	5.00%	32120
	Sub-Total		674515
4	Transportation on material	4.00%	23360
5	T&P on material cost	1.00%	5840
6	Contingencies on material	2.00%	11680
	Service Cost		1448309
	Sub-Total		715395
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1431
	Sub-Total		716825
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	7168
9	Insurance	1.00%	7168
10	Turnkey Charges	0.00%	0

Total **731162**

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	1109884	731163
Total Cost of the Estimate	1109884	731163

Cost data of Structure for 11 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 11 KV CT	Kg.	50	69.93	3496.50
2	Structure for 11 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Breaker and Capacitors	Kg.	360	69.93	25174.80
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
	Total:				42867.90

Cost Data for 11 KV Station Type 2.4 MVAR Capacitor Bank with 0.2 % Reactor for any area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	11 KV Lightning Arrestors (Station type)	Set	1	7999.72	7999.72
2	11 kV, Single phase, outdoor NCT	Nos.	1	15600.00	15600.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	12733.20	38199.60
3	2.4 MVAR, 11 kV Capacitor Bank	Set	1	288877.20	288877.20
4	11KV A.B. Switch, 400 A	Nos.	1	11088.00	11088.00
2	11 KV Isolators with EB (800 A)	Set	1	36030.00	36030.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	31956.00	31956.00
6	11 KV VCB 800 A Outdoor	Set	1	135085.90	135085.90
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	42867.90	42867.90
8	C&R Panel for 11 kv Outgoing Feeder OD	Nos.	1	59812.80	59812.80
9	1.93 KVAR, 11 kv, 1 Ph, Al winded series reactor	Set	1	65864.40	65864.40
10	Earthing Sets H.T	L.S.	17	461.70	7848.90

Cost of material

741230.42

1	Erection cost on material	5.00%	37062
2	Contractor supervision charges on material	5.00%	37062
	Sub-Total		815353
3	Contractor's Profit	5.00%	40768
	Sub-Total		856121
4	Transportation on material	4.00%	29649
5	T&P on material cost	1.00%	7412
6	Contingencies on material	2.00%	14825
	Service Cost		1838251
	Sub-Total		908007
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1816
	Sub-Total		909823
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9098
9	Insurance	1.00%	9098
10	Turnkey Charges	0.00%	0

Total

928020

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	1408708	928020
Total Cost of the Estimate	1408708	928020

Cost data of Structure for 11 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 11 KV CT	Kg.	50	69.93	3496.50
2	Structure for 11 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Breaker and Capacitors	Kg.	360	69.93	25174.80
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
	Total:				42867.90

Item Code No. 1705					
Cost Data for 11 KV Station Type 3.0 MVAR Capacitor Bank with 0.2 % Reactor for Rural area					
Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	11 KV Lightning Arrestors (Station type)	Set	1	7999.72	7999.72
2	11 kv, Single phase, outdoor NCT	Nos.	1	15600.00	15600.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	12733.20	38199.60
3	3.0 MVAR, 11 kv Capacitor Bank	Set	1	350118.00	350118.00
4	11KV A.B. Switch, 400 A	Nos.	1	11088.00	11088.00
5	11 KV Isolators with EB (800 A)	Set	1	36030.00	36030.00
2	11 KV Isolators without EB (800 Amp.)	Set	1	31956.00	31956.00
6	11 KV VCB 800 A Outdoor	Set	1	135085.90	135085.90
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	42867.90	42867.90
8	C&R Panel for 11 kv Outgoing Feeder OD	Nos.	1	59812.80	59812.80
9	2.42 KVAR, 11 kv, 1 Ph, Al winded series reactor	Set	1	107462.40	107462.40
10	Earthing Sets H.T	L.S.	17	461.70	7848.90

Cost of material			844069.22
1	Erection cost on material	5.00%	42203
2	Contractor supervision charges on material	5.00%	42203
	Sub-Total		928476
3	Contractor's Profit	5.00%	46424
	Sub-Total		974900
4	Transportation on material	4.00%	33763
5	T&P on material cost	1.00%	8441
6	Contingencies on material	2.00%	16881
	Service Cost		2093292
	Sub-Total		1033985
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2068
	Sub-Total		1036053
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	10361
9	Insurance	1.00%	10361
10	Turnkey Charges	0.00%	0

Particulars	Total	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	90.05%	25.200%
Total Cost of the Estimate	1604154	1056775

Cost data of Structure for 11 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 11 KV CT	Kg.	50	69.93	3496.50
2	Structure for 11 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Breaker and Capacitors	Kg.	360	69.93	25174.80
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Cost Data for 11 KV Station Type 3.0 MVAR Capacitor Bank with 6 % Reactor for Urban area

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	11 KV Lightning Arrestors (Station type)	Set	1	7999.72	7999.72
2	11 kV, Single phase, outdoor NCT	Nos.	1	15600.00	15600.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	12733.20	38199.60
3	3.0 MVAR, 11 kV Capacitor Bank	Set	1	350118.00	350118.00
4	11KV A.B. Switch, 400 A	Nos.	1	11088.00	11088.00
2	11 KV Isolators with EB (800 A)	Set	1	36030.00	36030.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	31956.00	31956.00
6	11 KV VCB 800 A Outdoor	Set	1	135085.90	135085.90
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	59169.15	59169.15
8	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	59812.80	59812.80
9	72 kVAR, 11 kV series reactor	Set	1	319154.40	319154.40
10	Earthing Sets H.T	L.S.	17	461.70	7848.90

Cost of material

1072062.47

1	Erection cost on material	5.00%	53603
2	Contractor supervision charges on material	5.00%	53603
	Sub-Total		1179269
3	Contractor's Profit	5.00%	58963
	Sub-Total		1238232
4	Transportation on material	4.00%	42882
5	T&P on material cost	1.00%	10721
6	Contingencies on material	2.00%	21441
	Service Cost		2658715
	Sub-Total		1313277
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2627
	Sub-Total		1315903
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	13159
9	Insurance	1.00%	13159
10	Turnkey Charges	0.00%	0

Total

1342221

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	2037455	1342222
Total Cost of the Estimate	2037455	1342222

Cost data of Structure for 11 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 11 KV CT	Kg.	50	69.93	3496.50
2	Structure for 11 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Breaker and Capacitors	Kg.	360	69.93	25174.80
4	Structure for Series Reactor(set)	L.S.	1	16301.25	16301.25
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
	Total:				59169.15

Item Code No. 1707					
Cost Data for 22 KV Station Type 1.2 MVAR Capacitor Bank with 0.2 % Reactor for rural area					
Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	22 KV Lightning Arrestors (Station type)	Set	1	13666.01	13666.01
2	22 kv, Single phase, outdoor NCT	Nos.	1	21600.00	21600.00
3	22 KV C.T. Three core.	Nos.	3	29998.80	89996.40
4	1.2 MVAR, 22 kV Capacitor Bank	Set	1	263178.00	263178.00
5	22KV A.B.Switch, 400 A	Nos.	1	17336.40	17336.40
6	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
7	22 KV Isolators without EB (800 Amp.)	Set	1	42816.00	42816.00
8	22 KV VCB complete 800 Amp (O.D.)	Set	1	171861.75	171861.75
9	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	42867.90	42867.90
10	C&R panel for 22 KV feeder breaker	Nos.	1	59812.80	59812.80
11	0.48 KVAR, 22 kv, 1 Ph, Al winded series reactor	Set	1	110559.60	110559.60
12	Earthing Sets H.T	L.S.	17	461.70	7848.90

Cost of material			891400
1	Erection cost on material	5.00%	44570
2	Contractor supervision charges on material	5.00%	44570
Sub-Total			980540
3	Contractor's Profit	5.00%	49027
Sub-Total			1029567
4	Transportation on material	4.00%	35656
5	T&P on material cost	1.00%	8914
6	Contingencies on material	2.00%	17828
Service Cost			2210672
Sub-Total			1091965
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2184
Sub-Total			1094149
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	10941
9	Insurance	1.00%	10941
10	Turnkey Charges	0.00%	0
Total			1116032

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	1694106	1116033
Total Cost of the Estimate	1694106	1116033

Cost data of Structure for 22 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV CT	Kg.	50	69.93	3496.50
2	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Breaker and Capacitors	Kg.	360	69.93	25174.80
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Item Code No. 1708					
Cost Data for 22 KV Station Type 2.4 MVAR Capacitor Bank with 0.2 % Reactor for any area					
Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	22 KV Lightning Arrestors (Station type)	Set	1	13666.01	13666.01
2	22 kv, Single phase, outdoor NCT	Nos.	1	21600.00	21600.00
3	22 KV C.T. Three core.	Nos.	3	29998.80	89996.40
4	2.4 MVAR, 22 kv Capacitor Bank	Set	1	362920.80	362920.80
5	22KV A.B.Switch, 400 A	Nos.	1	17336.40	17336.40
6	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
7	22 KV Isolators without EB (800 Amp.)	Set	1	42816.00	42816.00
8	22 KV VCB complete 800 Amp (O.D.)	Set	1	171861.75	171861.75
9	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	42867.90	42867.90
10	C&R panel for 22 KV feeder breaker	Nos.	1	59812.80	59812.80
11	0.97 KVAR, 22 kv, 1 Ph, Al winded series reactor	Set	1	144207.60	144207.60
12	Earthing Sets H.T	L.S.	17	461.70	7848.90

Cost of material			1024790.96
1	Erection cost on material	5.00%	51240
2	Contractor supervision charges on material	5.00%	51240
Sub-Total			1127270
3	Contractor's Profit	5.00%	56364
Sub-Total			1183634
4	Transportation on material	4.00%	40992
5	T&P on material cost	1.00%	10248
6	Contingencies on material	2.00%	20496
Service Cost			2541482
Sub-Total			1255369
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2511
Sub-Total			1257880
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	12579
9	Insurance	1.00%	12579
10	Turnkey Charges	0.00%	0

Total			1283037
Particulars	DPR Amount	Tender/ Estimate Amount	
	90.05%	25.200%	
Cost with overheads on Material	1947615	1283038	
Total Cost of the Estimate	1947615	1283038	

Cost data of Structure for 22 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV CT	Kg.	50	69.93	3496.50
2	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Breaker and Capacitors	Kg.	360	69.93	25174.80
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Item Code No. 1709					
Cost Data for 22 KV Station Type 3.0 MVAR Capacitor Bank with 0.2 % Reactor for Rural area					
Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	22 KV Lightning Arrestors (Station type)	Set	1	13666.01	13666.01
2	22 kv, Single phase, outdoor NCT	Nos.	1	21600.00	21600.00
	22 KV C.T. Three core.	Nos.	3	29998.80	89996.40
3	3.0 MVAR, 22 kV Capacitor Bank	Set	1	486698.40	486698.40
4	22KV A.B.Switch, 400 A	Nos.	1	17336.40	17336.40
5	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
2	22 KV Isolators without EB (800 Amp.)	Set	1	42816.00	42816.00
6	22 KV VCB complete 800 Amp (O.D.)	Set	1	171861.75	171861.75
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	42867.90	42867.90
8	C&R panel for 22 KV feeder breaker	Nos.	1	59812.80	59812.80
9	1.32 KVAR, 22 kv, 1 Ph, Al winded series reactor	Set	1	173048.40	173048.40
10	Earthing Sets H.T	L.S.	17	461.70	7848.90

Cost of material				1177409.36
1	Erection cost on material	5.00%		58870
2	Contractor supervision charges on material	5.00%		58870
	Sub-Total			1295150
3	Contractor's Profit	5.00%		64758
	Sub-Total			1359908
4	Transportation on material	4.00%		47096
5	T&P on material cost	1.00%		11774
6	Contingencies on material	2.00%		23548
	Service Cost			2919975
	Sub-Total			1442326
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		2885
	Sub-Total			1445211
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		14452
9	Insurance	1.00%		14452
10	Turnkey Charges	0.00%		0

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	2237666	1474117
Total Cost of the Estimate	2237666	1474117

Cost data of Structure for 22 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV CT	Kg.	50	69.93	3496.50
2	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Breaker and Capacitors	Kg.	360	69.93	25174.80
4	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	42867.90

Item Code No. 1710					
Cost Data for 22 KV Station Type 3.0 MVAR Capacitor Bank with 6 % Reactor for Urban area					
Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.
1	22 KV Lightning Arrestors (Station type)	Set	1	13666.01	13666.01
2	22 kV, Single phase, outdoor NCT	Nos.	1	21600.00	21600.00
3	22 KV C.T. Three core.	Nos.	3	29998.80	89996.40
4	3.0 MVAR, 22 kV Capacitor Bank	Set	1	486698.40	486698.40
5	22KV A.B.Switch, 400 A	Nos.	1	17336.40	17336.40
6	22 KV Isolators with EB (800 A)	Set	1	49856.40	49856.40
7	22 KV Isolators without EB (800 Amp.)	Set	1	42816.00	42816.00
8	22 KV VCB complete 800 Amp (O.D.)	Set	1	171861.75	171861.75
9	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	70351.20	70351.20
10	C&R panel for 22 KV feeder breaker	Nos.	1	59812.80	59812.80
11	79.2 kVAR, 22 kV series reactor	Set	1	522750.00	522750.00
12	Earthing Sets H.T	L.S.	17	461.70	7848.90

Cost of material			1554594.26
1	Erection cost on material	5.00%	77730
2	Contractor supervision charges on material	5.00%	77730
Sub-Total			1710054
3	Contractor's Profit	5.00%	85503
Sub-Total			1795556
4	Transportation on material	4.00%	62184
5	T&P on material cost	1.00%	15546
6	Contingencies on material	2.00%	31092
Service Cost			3855394
Sub-Total			1904378
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	3809
Sub-Total			1908187
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	19082
9	Insurance	1.00%	19082
10	Turnkey Charges	0.00%	0

Total			1946350
Particulars	DPR Amount	Tender/ Estimate Amount	
	90.05%	25.200%	
Cost with overheads on Material	2954506	1946352	
Total Cost of the Estimate	2954506	1946352	

Cost data of Structure for 22 KV Station Capacitor Bank

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV CT	Kg.	50	69.93	3496.50
2	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
3	Structure for Breaker and Capacitors	Kg.	360	69.93	25174.80
4	Structure for Series Reactor(set) 22 kV	L.S.	1	27483.30	27483.30
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	70351.20

Supply, Erection, Testing & Commissioning of LT 6--WAY Feeder Pillars

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	LT Feeder Pillar 6 Way	No	1	35040.00	35040.00
2	Earthing with GI pipe	No	2	392.85	785.70
3	G.I.Strip (25 X 3 mm)	KG	2	90.15	180.31
4	Sundries	L. S.	1	885.50	885.50
5	Concreting ration 1:3:6	L. S.	1	3935.10	3935.10
Cost of material					40826.61

1	Erection cost on material	15.00%	6124
2	Contractor supervision charges on material	5.00%	2041
Sub-Total			48992
3	Contractor's Profit	5.00%	2450
Sub-Total			51442
4	Transportation on material	4.00%	1633
5	T&P on material cost	1.00%	408
6	Contingencies on material	2.00%	817
Service Cost			113906
Sub-Total			54299
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	109
Sub-Total			54408
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	544
9	Insurance	1.00%	544
10	Turnkey Charges	0.00%	0
Total			55496

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	83984	55496
Total Cost of the Estimate	83984	55496

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Supply, Erection, Testing & Commissioning of LT 8-WAY Feeder Pillars

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	LT Feeder Pillar 8 Way	No	1	45876.00	45876.00
2	Earthing with GI pipe	No	2	392.85	785.70
3	G.I.Strip (25 X 3 mm)	KG	2	90.15	180.31
4	Sundries	L. S.	1	885.50	885.50
5	Concreting ration 1:3:6	L. S.	1	3935.10	3935.10
Cost of material					51662.61

1	Erection cost on material	15.00%	7749
2	Contractor supervision charges on material	5.00%	2583
Sub-Total			61995
3	Contractor's Profit	5.00%	3100
Sub-Total			65095
4	Transportation on material	4.00%	2067
5	T&P on material cost	1.00%	517
6	Contingencies on material	2.00%	1033
Service Cost			144139
Sub-Total			68711
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	137
Sub-Total			68849
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	688
9	Insurance	1.00%	688
10	Turnkey Charges	0.00%	0

Total **70226**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	106275	70225
Total Cost of the Estimate	106275	70225

Supply, Erection, Testing & Commissioning of LT 4-WAY Feeder Pillars

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	L.T. Feedar Pillar 4 Way	No	1	27528.00	27528.00
2	Earthing with GI pipe	No	2	392.85	785.70
3	G.I.Strip (25 X 3 mm)	KG	2	90.15	180.31
4	Sundries		1	885.50	885.50
5	Concreting ration 1:3:6	L. S.	1	3935.10	3935.10
Cost of material					33314.61

1	Erection cost on material	15.00%	4997
2	Contractor supervision charges on material	5.00%	1666
Sub-Total			39978
3	Contractor's Profit	5.00%	1999
Sub-Total			41976
4	Transportation on material	4.00%	1333
5	T&P on material cost	1.00%	333
6	Contingencies on material	2.00%	666
Service Cost			92948
Sub-Total			44308
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	89
Sub-Total			44397
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	444
9	Insurance	1.00%	444
10	Turnkey Charges	0.00%	0
Total			45285

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	68531	45285
Total Cost of the Estimate	68531	45285

Item Code No. 2003																	
Supply, Erection, Testing & Commissioning of LT mini Feeder Pillars																	
Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)												
1	L.T. Mini Feeder Pillar	No	1	10596.00	10596.00												
2	Earthing with GI pipe	No	2	392.85	785.70												
3	G.I.Strip (25 X 3 mm)	kG	2	90.15	180.31												
4	Sundries		1	885.50	885.50												
5	Concreting ration 1:3:6	L. S.	1	3935.10	3935.10												
Cost of material					16382.61												
1	Erection cost on material		15.00%		2457												
2	Contractor supervision charges on material		5.00%		819												
Sub-Total					19659												
3	Contractor's Profit		5.00%		983												
Sub-Total					20642												
4	Transportation on material		4.00%		655												
5	T&P on material cost		1.00%		164												
6	Contigencies on material		2.00%		328												
Service Cost					45707												
Sub-Total					21789												
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		44												
Sub-Total					21832												
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		218												
9	Insurance		1.00%		218												
10	Turnkey Charges		0.00%		0												
Total					22269												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">Particulars</th> <th style="width: 20%;">DPR Amount</th> <th style="width: 20%;">Tender/ Estimate Amount</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">105.71%</td> <td style="text-align: center;">35.930%</td> </tr> <tr> <td>Cost with overheads on Material</td> <td style="text-align: center;">33701</td> <td style="text-align: center;">22269</td> </tr> <tr> <td>Total Cost of the Estimate</td> <td style="text-align: center;">33701</td> <td style="text-align: center;">22269</td> </tr> </tbody> </table>						Particulars	DPR Amount	Tender/ Estimate Amount		105.71%	35.930%	Cost with overheads on Material	33701	22269	Total Cost of the Estimate	33701	22269
Particulars	DPR Amount	Tender/ Estimate Amount															
	105.71%	35.930%															
Cost with overheads on Material	33701	22269															
Total Cost of the Estimate	33701	22269															

Item Code No. 5101					
Upgradation of 33 KV Lines 80 sq mm to 100 sq mm conductor					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	AAAC 100 mm ²	Rmt	3150	66.69	210080.87
2	RSJ 152x152, 10 m long	no	4	22391.10	89564.40
3	MS Channel 100x50x6 mm	Kg.	108	69.93	7552.44
4	MS angle 50x50x6 mm	Kg.	71	69.93	4965.03
5	M.S. Flats(50 X 10mm)	Kg.	45	65.48	2946.38
6	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
7	Tension Hardware for 100 sq.mm Conductor.	No.	6	392.15	2352.90
8	33 kV Pin Insulators with G.I. Pins	No.	12	462.50	5550.01
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	71.75	1148.00
10	Sieve Joints	No.	3	132.25	396.75
11	Danger Board in yard.	No.	4	57.50	230.00
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Concreting ration 1:3:6	cmt.	2	3935.10	7870.20
14	G.I.Barbed Wire 'A' type.	Kg.	15	80.34	1205.06
15	Black Bituminus Paint	Ltr.	6	97.75	586.50
16	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
17	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
18	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
19	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
	Cost of material				359859.61

1	Erection cost on material	15.00%	53979
2	Contractor supervision charges on material	5.00%	17993
	Sub-Total		431832
3	Contractor's Profit	5.00%	21592
	Sub-Total		453423
4	Transportation on material	4.00%	14394
5	T&P on material cost	1.00%	3599
6	Contingencies on material	2.00%	7197
	Service Cost		1004008
	Sub-Total		478613
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	957
	Sub-Total		479571
	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4796
9	Insurance	1.00%	4796
10	Turnkey Charges	0.00%	0
	Total		489162

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	740267	489157
Total Cost of the Estimate	740267	489157

Item Code No. 5102					
Cost data of Upgradation of 33 KV Line by AAAC 232 sqmm Cond..					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	AAAC 232 mm2	Rmt	3100	159.25	493675.00
2	RSJ 152x152, 13 m long	no	4	29108.70	116434.80
3	G.I.Channel 100x50x6mm	Kg.	108	94.61	10217.66
4	G.I.Angle 50x50x6mm	Kg.	71	94.61	6717.17
5	G.I Flat 50x10 mm	Kg.	45	90.15	4056.89
6	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
7	Strain Hardware for AAAC232 sq.mm.	No.	6	692.94	4157.66
8	33 kv Pin Insulators with G.I. Pins	No.	12	462.50	5550.01
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	71.75	1148.00
10	Sleeve Joints	No.	3	132.25	396.75
11	Danger Board in yard.	No.	4	57.50	230.00
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Concreting ration 1:3:6	cmt.	2	3935.10	7870.20
14	G.I.Barbed Wire 'A' type.	Kg.	15	80.34	1205.06
15	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
16	Wedge connectors				
	a) PANTHER TO PANTHER or equivalent AAAC	No	18	825.92	14866.57
	Cost of material				673395.15

1	Erection cost on material	15.00%	101009
2	Contractor supervision charges on material	5.00%	33670
	Sub-Total		808074
3	Contractor's Profit	5.00%	40404
	Sub-Total		848478
4	Transportation on material	4.00%	26936
5	T&P on material cost	1.00%	6734
6	Contingencies on material	2.00%	13468
	Service Cost		1878772
	Sub-Total		895616
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1791
	Sub-Total		897407
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	8974
9	Insurance	1.00%	8974
10	Turnkey Charges	0.00%	0
	Total		915355

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1385241	915346
Total Cost of the Estimate	1385241	915346

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Replacement of old HT cable by new XLPE cable size 33 kV, 3 C, 300 sq. mm.

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	1000.00	2136.51	2136510.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	33 kV Heat shrik Straight through joint (A) kit for XLPE 3 C X 300 sqmm	Kit	4.00	36900.00	147600.00
5	33 kV Heat shrik Outdoor termination joint (A) kit for XLPE 3 C X 300 sqmm	Kit	2.00	19028.00	38056.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Sundries	LS	1.00	885.50	885.50

Cost of material **2538456.50**

1	Erection cost on material	15.00%	380768
2	Contractor supervision charges on material	5.00%	126923
	Sub-Total		3046148
3	Contractor's Profit	5.00%	152307
	Sub-Total		3198455
4	Transportation on material	4.00%	101538
5	T&P on material cost	1.00%	25385
6	Contingencies on material	2.00%	50769
	Service Cost		7082294
	Sub-Total		3376147
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	6752
	Sub-Total		3382899
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	33829
9	Insurance	1.00%	33829
10	Turnkey Charges	0.00%	0

Total **3450557**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	5221859	3450524
Total Cost of the Estimate	5221859	3450524

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Item Code No. 5104					
Replacement of old HT O/D termination joints for 33 kV, 3 C, 300 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	33 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No	1	19028.00	19028.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					19913.50

1	Erection cost on material	15.00%		2987
2	Contractor supervision charges on material	5.00%		996
Sub-Total				
3	Contractor's Profit	5.00%		1195
Sub-Total				
4	Transportation on material	4.00%		797
5	T&P on material cost	1.00%		199
6	Contigencies on material	2.00%		398
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		53
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		265
9	Insurance	1.00%		265
10	Turnkey Charges	0.00%		0
Total				
27069				

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	40964	27068
Total Cost of the Estimate	40964	27068

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Item Code No. 5105					
Replacement of old HT I/D termination joints for 33 kV, 3 C, 300 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	33 kV Heat shrik Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No	1	14145.00	14145.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					15030.50

1	Erection cost on material	15.00%			2255
2	Contractor supervision charges on material	5.00%			752
Sub-Total					18037
3	Contractor's Profit	5.00%			902
Sub-Total					18938
4	Transportation on material	4.00%			601
5	T&P on material cost	1.00%			150
6	Contigencies on material	2.00%			301
Service Cost					41935
Sub-Total					19991
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			40
Sub-Total					20031
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			200
9	Insurance	1.00%			200
10	Turnkey Charges	0.00%			0

Total 20431

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	30919	20431
Total Cost of the Estimate	30919	20431

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Item Code No. 5106					
Replacement of old HT I/D straight through joints for 33 kV, 3 C, 300 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	33 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No	1	36900.00	36900.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					37785.50

1	Erection cost on material	15.00%			5668
2	Contractor supervision charges on material	5.00%			1889
Sub-Total					45343
3	Contractor's Profit	5.00%			2267
Sub-Total					47610
4	Transportation on material	4.00%			1511
5	T&P on material cost	1.00%			378
6	Contingencies on material	2.00%			756
Service Cost					105422
Sub-Total					50255
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			101
Sub-Total					50355
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			504
9	Insurance	1.00%			504
10	Turnkey Charges	0.00%			0
Total					51362

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	77729	51362
Total Cost of the Estimate	77729	51362

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Item Code No. 5202					
Upgradation of 22 KV Line					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	AAAC 100 mm ²	Rmt	3150	66.69	210080.87
2	RSJ 152x152, 10 m long	no	4	22391.10	89564.40
3	MS Channel 100x50x6 mm	Kg.	108	69.93	7552.44
4	MS angle 50x50x6 mm	Kg.	71	69.93	4965.03
5	M.S. Flats(50 X 10mm)	Kg.	45	65.48	2946.38
6	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
7	Tension Hardware for 100 sq.mm Conductor.	No.	6	392.15	2352.90
8	22 kV Pin Insulators with G.I. Pins	No.	12	386.40	4636.80
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	71.75	1148.00
10	Sieve Joints	No.	3	132.25	396.75
11	Danger Board in yard.	No.	4	57.50	230.00
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Concreting ration 1:3:6	cmt.	2	3935.10	7870.20
14	G.I.Barbed Wire 'A' type.	Kg.	15	80.34	1205.06
15	Black Bituminus Paint	Ltr.	6	97.75	586.50
16	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
17	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
18	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
19	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
	Cost of material				360806.47

1	Erection cost on material	15.00%	54121
2	Contractor supervision charges on material	5.00%	18040
	Sub-Total		432968
3	Contractor's Profit	5.00%	21648
	Sub-Total		454616
4	Transportation on material	4.00%	14432
5	T&P on material cost	1.00%	3608
6	Contingencies on material	2.00%	7216
	Service Cost		1006650
	Sub-Total		479873
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	960
	Sub-Total		480832
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4808
9	Insurance	1.00%	4808
10	Turnkey Charges	0.00%	0
	Total		490449

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	742215	490444
Total Cost of the Estimate	742215	490444

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Item code No. 5203					
Upgradation of 22 KV Line from 0.03 to 55 sqmm AAAC conductor.					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	AAAC 55 mm2	Rmt	3150	34.54	108802.46
2	RSJ 152x152, 10 m long	no	4	22391.10	89564.40
3	MS Channel 100x50x6 mm	Kg.	108	69.93	7552.44
4	MS angle 50x50x6 mm	Kg.	71	69.93	4965.03
5	M.S. Flats(50 X 10mm)	Kg.	45	65.48	2946.38
6	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
7	Tension Hardware for 100 sq.mm Conductor.	No.	6	392.15	2352.90
8	22 kV Pin Insulators with G.I. Pins	No.	12	386.40	4636.80
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	71.75	1148.00
10	Sieve Joints	No.	3	132.25	396.75
11	Danger Board in yard.	No.	4	57.50	230.00
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Concreting ration 1:3:6	cmt.	2	3935.10	7870.20
14	G.I.Barbed Wire 'A' type.	Kg.	15	80.34	1205.06
15	Black Bituminus Paint	Ltr.	6	97.75	586.50
16	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
17	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
18	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
19	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	131.23	3149.49
	Cost of material				247260.41

1	Erection cost on material	15.00%	37089
2	Contractor supervision charges on material	5.00%	12363
	Sub-Total		296712
3	Contractor's Profit	5.00%	14836
	Sub-Total		311548
4	Transportation on material	4.00%	9890
5	T&P on material cost	1.00%	2473
6	Contingencies on material	2.00%	4945
	Service Cost		689857
	Sub-Total		328856
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	658
	Sub-Total		329514
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3295
9	Insurance	1.00%	3295
10	Turnkey Charges	0.00%	0
	Total		336104

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	508639	336101
Total Cost of the Estimate	508639	336101

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Item code No. 5204
Upgradation of 22 KV Line from 0.1 to 0.2

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	AAAC 232 mm2	Rmt	3150	159.25	501637.50
2	RSJ 152x152, 13 m long	no	4	29108.70	116434.80
3	MS Channel 100x50x6 mm	Kg.	108	69.93	7552.44
4	MS angle 50x50x6 mm	Kg.	71	69.93	4965.03
5	M.S. Flats(50 X 10mm)	Kg.	45	65.48	2946.38
6	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
7	Tension Hardware for 200 sq.mm Conductor.	No.	6	678.50	4071.00
8	22 kV Pin Insulators with G.I. Pins	No.	12	386.40	4636.80
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	71.75	1148.00
10	Sieve Joints	No.	3	132.25	396.75
11	Danger Board in yard.	No.	4	57.50	230.00
12	Earthing Sets H.T	No.	4	461.70	1846.80
13	Concreting ration 1:3:6	cmt.	2	3935.10	7870.20
14	G.I.Barbed Wire 'A' type.	Kg.	15	80.34	1205.06
15	Black Bituminus Paint	Ltr.	6	97.75	586.50
16	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
17	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
18	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
19	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	24	825.92	19822.10
	Cost of material				685356.56

1	Erection cost on material	15.00%	102803
2	Contractor supervision charges on material	5.00%	34268
	Sub-Total		822428
3	Contractor's Profit	5.00%	41121
	Sub-Total		863549
4	Transportation on material	4.00%	27414
5	T&P on material cost	1.00%	6854
6	Contingencies on material	2.00%	13707
	Service Cost		1912145
	Sub-Total		911524
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1823
	Sub-Total		913347
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9133
9	Insurance	1.00%	9133
10	Turnkey Charges	0.00%	0

Total **931614**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1409847	931605
Total Cost of the Estimate	1409847	931605

Replacement of old HT cable by new XLPE cable size 22 kV, 3 C, 300 sq. mm.

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	1000.00	1932.48	1932480.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	22 kV Heat shrik Straight through joint (A) kit for XLPE 3 C X 300 sqmm	Kit	4.00	24600.00	98400.00
5	22 kV Heat shrik Outdoor termination joint (A) kit for XLPE 3 C X 300 sqmm	Kit	2.00	13715.00	27430.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Sundries	LS	1.00	885.50	885.50

Cost of material **2274600.50**

1	Erection cost on material	15.00%	341190
2	Contractor supervision charges on material	5.00%	113730
	Sub-Total		2729521
3	Contractor's Profit	5.00%	136476
	Sub-Total		2865997
4	Transportation on material	4.00%	90984
5	T&P on material cost	1.00%	22746
6	Contingencies on material	2.00%	45492
	Service Cost		6346135
	Sub-Total		3025219
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	6050
	Sub-Total		3031269
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	30313
9	Insurance	1.00%	30313
10	Turnkey Charges	0.00%	0

Total **3091894**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	4679081	3091864
Total Cost of the Estimate	4679081	3091864

Item Code No. 5206					
Replacement of old HT O/D jointing kit (Straight Through) for 22 kV, 3 C, 300 sq. mm.					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	22 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No	1	13715.00	13715.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					14600.50

1	Erection cost on material	15.00%			2190
2	Contractor supervision charges on material	5.00%			730
Sub-Total					17521
3	Contractor's Profit	5.00%			876
Sub-Total					18397
4	Transportation on material	4.00%			584
5	T&P on material cost	1.00%			146
6	Contigencies on material	2.00%			292
Service Cost					40735
Sub-Total					19419
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			39
Sub-Total					19458
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			195
9	Insurance	1.00%			195
10	Turnkey Charges	0.00%			0
Total					19847

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	30035	19846
Total Cost of the Estimate	30035	19846

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Item Code No. 5207					
Replacement of old HT I/D termination joints for 22 kV, 3 C, 300 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	22 kV Heat shrik Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No	1	12874.00	12874.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					13759.50

1	Erection cost on material	15.00%		2064
2	Contractor supervision charges on material	5.00%		688
Sub-Total				
3	Contractor's Profit	5.00%		826
Sub-Total				
4	Transportation on material	4.00%		550
5	T&P on material cost	1.00%		138
6	Contigencies on material	2.00%		275
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		37
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		183
9	Insurance	1.00%		183
10	Turnkey Charges	0.00%		0
Total				
18703				

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	28305	18703
Total Cost of the Estimate	28305	18703

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Item Code No. 5208					
Replacement of old HT I/D straight through joints for 22 kV, 3 C, 300 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	22 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No	1	24600.00	24600.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					25485.50

1	Erection cost on material	15.00%		3823
2	Contractor supervision charges on material	5.00%		1274
Sub-Total				
3	Contractor's Profit	5.00%		1529
Sub-Total				
4	Transportation on material	4.00%		1019
5	T&P on material cost	1.00%		255
6	Contingencies on material	2.00%		510
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		68
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		340
9	Insurance	1.00%		340
10	Turnkey Charges	0.00%		0

Total 34643

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	52426	34642
Total Cost of the Estimate	52426	34642

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Item Code No. 5302					
Upgradation of 11 KV Line 100 Sqmm conductor					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	RSJ 116x100, 10 m long	No.	4	13882.05	55528.20
2	MS Channel 100x50x6 mm	Kg.	13	69.93	909.09
3	M.S.Channel 75x40x6 mm	Kg.	119	69.93	8321.67
4	MS angle 50x50x6 mm	Kg.	16	69.93	1118.88
5	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
6	11 KV Pin Insulators with G.I. Pins	No.	12	108.66	1303.94
7	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
8	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	6	369.91	2219.45
9	AAAC 100 mm2	Rmt	3150.00	66.69	210080.87
10	Earthing Sets H.T	Set	4	461.70	1846.80
11	G.I.Barbed Wire 'A' type.	Kg.	16	80.34	1285.40
12	Danger Board in yard.	No.	4	57.50	230.00
13	Concreting ration 1:3:6	Cmt.	3	3935.10	11805.30
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	20	71.75	1435.00
15	Black Bituminus Paint	Ltr.	6	97.75	586.50
16	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
17	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
18	Painting/Hardware & support with numbering of pole	LS	1	258.75	258.75
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
20	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	642.38	15417.14
Cost of material					322916.69

1	Erection cost on material	15.00%	48438
2	Contractor supervision charges on material	5.00%	16146
Sub-Total			387500
3	Contractor's Profit	5.00%	19375
Sub-Total			406875
4	Transportation on material	4.00%	12917
5	T&P on material cost	1.00%	3229
6	Contingencies on material	2.00%	6458
Service Cost			900938
Sub-Total			429479
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	859
Sub-Total			430338
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4303
9	Insurance	1.00%	4303
10	Turnkey Charges	0.00%	0
Total			438945

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	664272	438941
Total Cost of the Estimate	664272	438941

Item Code No. 5303					
Upgradation of 11 KV Line 55 Sqmm conductor					
Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	RSJ 116x100, 10 m long	No.	4	13882.05	55528.20
2	MS Channel 100x50x6 mm	Kg.	13	69.93	909.09
3	M.S.Channel 75x40x6 mm	Kg.	119	69.93	8321.67
4	MS angle 50x50x6 mm	Kg.	16	69.93	1118.88
5	M.S. Flats(50 X 10mm)	Kg.	37	65.48	2422.58
6	11 KV Pin Insulators with G.I. Pins	No.	12	108.66	1303.94
7	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
8	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	6	369.91	2219.45
9	AAAC 55 mm ²	Rmt	3150.00	34.54	108802.46
10	Earthing Sets H.T	Set	4	461.70	1846.80
11	G.I.Barbed Wire 'A' type.	Kg.	16	80.34	1285.40
12	Danger Board in yard.	No.	4	57.50	230.00
13	Concreting ration 1:3:6	Cmt.	3	3935.10	11805.30
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	20	71.75	1435.00
15	Black Bituminous Paint	Ltr.	6	97.75	586.50
16	Red Oxide Paint for 2 coats	Ltr.	20	97.75	1955.00
17	Aluminium Paint for 1 coat	Ltr.	9	129.95	1169.55
18	Painting/Hardware & support with numbering of pole	LS	1	258.75	258.75
19	Sundries such as N/B, Washers, Welding etc.	LS	1	3162.50	3162.50
20	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	131.23	3149.49
Cost of material					209370.64

1	Erection cost on material	15.00%	31406
2	Contractor supervision charges on material	5.00%	10469
Sub-Total			251245
3	Contractor's Profit	5.00%	12562
Sub-Total			263807
4	Transportation on material	4.00%	8375
5	T&P on material cost	1.00%	2094
6	Contingencies on material	2.00%	4187
Service Cost			584144
Sub-Total			278463
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	557
Sub-Total			279020
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2790
9	Insurance	1.00%	2790
10	Turnkey Charges	0.00%	0
Total			284600

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	430696	284598
Total Cost of the Estimate	430696	284598

Item Code No. 5316					
Replacement of old HT cable by new XLPE cable size 11 kV, 3 C, 95 sq. mm.					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	XLPE Cable 11 KV, 3 C / 95 mm sq.	mtr	1000	799.20	799200.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	Kit	4.00	4182.00	16728.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	Kit	2.00	1459.00	2918.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Sundries	LS	1	885.50	885.50
Cost of Material					1035136.50

1	Erection cost on material	15.00%	155270
2	Contractor supervision charges on material	5.00%	51757
	Sub-Total		1242164
3	Contractor's Profit	5.00%	62108
	Sub-Total		1304272
4	Transportation on material	4.00%	41405
5	T&P on material cost	1.00%	10351
6	Contingencies on material	2.00%	20703
	Service Cost		2888031
	Sub-Total		1376732
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2753
	Sub-Total		1379485
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	13795
9	Insurance	1.00%	13795
10	Turnkey Charges	0.00%	0
	Total		1407075

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	2129379	1407061
Total Cost of the Estimate	2129379	1407061

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Replacement of old HT cable by new XLPE cable size 11 kV, 3 C, 120 sq. mm.

Cost of Material					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	XLPE Cable 11 KV, 3 C / 185 mm sq.	mtr	1000	1158.30	1158300.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	Kit	4.00	1459.00	5836.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 120 sqmm	Kit	2.00	1907.00	3814.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Sundries	LS	1	885.50	885.50
Cost of Material					1384240.50

1	Transportation on material	4.00%	55370
2	T&P on material cost	1.00%	13842
3	Contingencies on material	2.50%	34606
5	Erection cost on material	15.00%	207636
6	Contractor supervision charges on material	5.00%	69212
7	Insurance , Labour & Finance Cost	3.00%	41527
Service Cost			422193
Sub-Total			1806434
8	Turnkey Charges	5.00%	90322

Total **1896756**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	2847521	1881598
Total Cost of the Estimate	2847521	1881598

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Replacement of old HT cable by new XLPE cable size 11 kV, 3 C, 300 sq. mm.

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	1000.00	1468.62	1468620.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 300 sqmm	Kit	4.00	5289.00	21156.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	Kit	2.00	2030.00	4060.00
6	Sand	Cmt	250.00	255.30	63825.00
7	Sundries	LS	1.00	885.50	885.50

Cost of material **1710126.50**

1	Erection cost on material	15.00%	256519
2	Contractor supervision charges on material	5.00%	85506
	Sub-Total		2052152
3	Contractor's Profit	5.00%	102608
	Sub-Total		2154759
4	Transportation on material	4.00%	68405
5	T&P on material cost	1.00%	17101
6	Contingencies on material	2.00%	34203
	Service Cost		4771253
	Sub-Total		2274468
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	4549
	Sub-Total		2279017
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	22790
9	Insurance	1.00%	22790
10	Turnkey Charges	0.00%	0

Total **2324598**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	3517901	2324575
Total Cost of the Estimate	3517901	2324575

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Item Code No. 5320					
Replacement of old HT O/D jointing kit (Straight Through) for 11 kV, 3 C, 95 sq. mm.					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No	1	1459.00	1459.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					2344.50

1	Erection cost on material	15.00%			352
2	Contractor supervision charges on material	5.00%			117
Sub-Total					2813
3	Contractor's Profit	5.00%			141
Sub-Total					2954
4	Transportation on material	4.00%			94
5	T&P on material cost	1.00%			23
6	Contingencies on material	2.00%			47
Service Cost					6541
Sub-Total					3118
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			6
Sub-Total					3124
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			31
9	Insurance	1.00%			31
10	Turnkey Charges	0.00%			0

Total **3187**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	4823	3187
Total Cost of the Estimate	4823	3187

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Item Code No. 5321					
Replacement of old HT O/D jointing kit (Straight Through) for 11 kV, 3 C, 120 sq. mm.					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 120 sqmm	No	1	1907.00	1907.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					2792.50

1	Erection cost on material	15.00%		419
2	Contractor supervision charges on material	5.00%		140
Sub-Total				
3	Contractor's Profit	5.00%		168
Sub-Total				
4	Transportation on material	4.00%		112
5	T&P on material cost	1.00%		28
6	Contingencies on material	2.00%		56
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		7
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		37
9	Insurance	1.00%		37
10	Turnkey Charges	0.00%		0

Total 3796

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	5744	3796
Total Cost of the Estimate	5744	3796

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Item Code No. 5322					
Replacement of old HT O/D jointing kit (Straight Through) for 11 kV, 3 C, 240 sq. mm.					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 240 sqmm	No	1	2030.00	2030.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					2915.50

1	Erection cost on material	15.00%			437
2	Contractor supervision charges on material	5.00%			146
Sub-Total					3499
3	Contractor's Profit	5.00%			175
Sub-Total					3674
4	Transportation on material	4.00%			117
5	T&P on material cost	1.00%			29
6	Contingencies on material	2.00%			58
Service Cost					8134
Sub-Total					3878
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			8
Sub-Total					3885
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			39
9	Insurance	1.00%			39
10	Turnkey Charges	0.00%			0

Total **3963**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	5997	3963
Total Cost of the Estimate	5997	3963

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Item Code No. 5323					
Replacement of old HT O/D jointing kit (Straight Through) for 11 kV, 3 C, 300 sq. mm.					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	No	1	2030.00	2030.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					2915.50

1	Erection cost on material	15.00%			437
2	Contractor supervision charges on material	5.00%			146
Sub-Total					3499
3	Contractor's Profit	5.00%			175
Sub-Total					3674
4	Transportation on material	4.00%			117
5	T&P on material cost	1.00%			29
6	Contingencies on material	2.00%			58
Service Cost					8134
Sub-Total					3878
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			8
Sub-Total					3885
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			39
9	Insurance	1.00%			39
10	Turnkey Charges	0.00%			0

Total 3963

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	5997	3963
Total Cost of the Estimate	5997	3963

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Item Code No. 5324					
Replacement of old HT I/D termination joints for 11 kV, 3 C, 95 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No	1	1169.00	1169.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					2054.50

1	Erection cost on material	15.00%		308
2	Contractor supervision charges on material	5.00%		103
Sub-Total				
3	Contractor's Profit	5.00%		123
Sub-Total				
4	Transportation on material	4.00%		82
5	T&P on material cost	1.00%		21
6	Contingencies on material	2.00%		41
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		5
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		27
9	Insurance	1.00%		27
10	Turnkey Charges	0.00%		0

Total 2793

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	4226	2793
Total Cost of the Estimate	4226	2793

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Item Code No. 5325					
Replacement of old HT I/D termination joints for 11 kV, 3 C, 120 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Indoor termination joint kit for 3 C X 120 sqmm	No	1	1538.00	1538.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					2423.50

1	Erection cost on material	15.00%			364
2	Contractor supervision charges on material	5.00%			121
Sub-Total					2908
3	Contractor's Profit	5.00%			145
Sub-Total					3054
4	Transportation on material	4.00%			97
5	T&P on material cost	1.00%			24
6	Contingencies on material	2.00%			48
Service Cost					6762
Sub-Total					3223
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			6
Sub-Total					3230
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			32
9	Insurance	1.00%			32
10	Turnkey Charges	0.00%			0

Total **3294**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	4985	3294
Total Cost of the Estimate	4985	3294

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Item Code No. 5326					
Replacement of old HT I/D termination joints for 11 kV, 3 C, 240 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Indoor termination joint kit for 3 C X 240 sqmm	No	1	1582.00	1582.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					2467.50

1	Erection cost on material	15.00%		370
2	Contractor supervision charges on material	5.00%		123
Sub-Total				
3	Contractor's Profit	5.00%		148
Sub-Total				
4	Transportation on material	4.00%		99
5	T&P on material cost	1.00%		25
6	Contingencies on material	2.00%		49
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		7
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		33
9	Insurance	1.00%		33
10	Turnkey Charges	0.00%		0

Total 3354

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	5076	3354
Total Cost of the Estimate	5076	3354

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Item Code No. 5327					
Replacement of old HT I/D termination joints for 11 kV, 3 C, 300 sq. mm. XLPE cable					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	1	1662.00	1662.00
2	Sundries	LS	1	885.50	885.50
Cost of Material					2547.50

1	Erection cost on material	15.00%		382
2	Contractor supervision charges on material	5.00%		127
Sub-Total				
3	Contractor's Profit	5.00%		153
Sub-Total				
3057				
4	Transportation on material	4.00%		102
5	T&P on material cost	1.00%		25
6	Contingencies on material	2.00%		51
Service Cost				
Sub-Total				
7108				
3388				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		7
Sub-Total				
3395				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		34
9	Insurance	1.00%		34
10	Turnkey Charges	0.00%		0

Total **3463**

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	5240	3463
Total Cost of the Estimate	5240	3463

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Item Code No. 5405					
Estimate for LT to underground 2C x 16 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Amourred 2C 16 Sqmm cable	Rmt	1000	70.20	70200.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					115135.95

1	Erection cost on material	15.00%			17270
2	Contractor supervision charges on material	5.00%			5757
Sub-Total					138163
3	Contractor's Profit	5.00%			6908
Sub-Total					145071
4	Transportation on material	4.00%			4605
5	T&P on material cost	1.00%			1151
6	Contingencies on material	2.00%			2303
Service Cost					321229
Sub-Total					153131
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			306
Sub-Total					153437
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			1534
9	Insurance	1.00%			1534
10	Turnkey Charges	0.00%			0

Total **156506**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	236846	156504
Total Cost of the Estimate	236846	156504

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Item Code No. 5406
Estimate for LT to underground 3.5 x 120 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable 120 sq.mm.	Rmt	1000	444.15	444150.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					489085.95

1	Erection cost on material	15.00%		73363
2	Contractor supervision charges on material	5.00%		24454
	Sub-Total			586903
3	Contractor's Profit	5.00%		29345
	Sub-Total			616248
4	Transportation on material	4.00%		19563
5	T&P on material cost	1.00%		4891
6	Contingencies on material	2.00%		9782
	Service Cost			1364550
	Sub-Total			650484
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		1301
	Sub-Total			651785
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		6518
9	Insurance	1.00%		6518
10	Turnkey Charges	0.00%		0

Total **664821**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1006099	664815
Total Cost of the Estimate	1006099	664815

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Item Code No. 5407
Estimate for LT to underground 3.5 x 240 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE cable 3.5 Core 240 mm ²	Rmt	1000	847.80	847800.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material **892735.95**

1	Erection cost on material	15.00%		133910
2	Contractor supervision charges on material	5.00%		44637
	Sub-Total			1071283
3	Contractor's Profit	5.00%		53564
	Sub-Total			1124847
4	Transportation on material	4.00%		35709
5	T&P on material cost	1.00%		8927
6	Contingencies on material	2.00%		17855
	Service Cost			2490733
	Sub-Total			1187339
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		2375
	Sub-Total			1189713
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		11897
9	Insurance	1.00%		11897
10	Turnkey Charges	0.00%		0

Total **1213508**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1836447	1213496
Total Cost of the Estimate	1836447	1213496

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Item Code No. 5408
Estimate for LT to underground 3.5 x 300 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE cable 3.5 Core 300 mm ²	Rmt	1000	978.75	978750.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material **1023685.95**

1	Erection cost on material	15.00%			153553
2	Contractor supervision charges on material	5.00%			51184
	Sub-Total				1228423
3	Contractor's Profit	5.00%			61421
	Sub-Total				1289844
4	Transportation on material	4.00%			40947
5	T&P on material cost	1.00%			10237
6	Contingencies on material	2.00%			20474
	Service Cost				2856084
	Sub-Total				1361502
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			2723
	Sub-Total				1364225
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			13642
9	Insurance	1.00%			13642
10	Turnkey Charges	0.00%			0

Total **1391510**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	2105824	1391496
Total Cost of the Estimate	2105824	1391496

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Estimate for LT to underground 3.5 x 185 sqmm cable for 1 Km

Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Armoured 3.5 Core cable 185 sq.mm.	Rmt	1000	661.50	661500.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,termination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					706435.95

1	Erection cost on material	15.00%	105965
2	Contractor supervision charges on material	5.00%	35322
Sub-Total			847723
3	Contractor's Profit	5.00%	42386
Sub-Total			890109
4	Transportation on material	4.00%	28257
5	T&P on material cost	1.00%	7064
6	Contingencies on material	2.00%	14129
Service Cost			1970956
Sub-Total			939560
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	1879
Sub-Total			941439
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	9414
9	Insurance	1.00%	9414
10	Turnkey Charges	0.00%	0

Total **960268**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1453209	960258
Total Cost of the Estimate	1453209	960258

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Item Code No. 5410					
Estimate for LT to underground 3.5 x 70 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	1000	269.28	269280.00
2	R.C.C. Pipe 150 mm 2 M	No	30	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					314215.95

1	Erection cost on material	15.00%		47132
2	Contractor supervision charges on material	5.00%		15711
Sub-Total				377059
3	Contractor's Profit	5.00%		18853
Sub-Total				395912
4	Transportation on material	4.00%		12569
5	T&P on material cost	1.00%		3142
6	Contingencies on material	2.00%		6284
Service Cost				876663
Sub-Total				417907
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		836
Sub-Total				418743
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		4187
9	Insurance	1.00%		4187
10	Turnkey Charges	0.00%		0

Total **427118**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	646374	427114
Total Cost of the Estimate	646374	427114

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Cost Data for conversion of 1 Km 33 KV Overhead line by 3 C, 300 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	1000.00	2136.51	2136510.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	33 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No.	4.00	36900.00	147600.00
5	33 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	2.00	19028.00	38056.00
6	Sand	Cmt.	250.00	255.30	63825.00

Cost of material **2537571.00**

1	Erection cost on material	15.00%	380636
2	Contractor supervision charges on material	5.00%	126879
	Sub-Total		3045085
3	Contractor's Profit	5.00%	152254
	Sub-Total		3197339
4	Transportation on material	4.00%	101503
5	T&P on material cost	1.00%	25376
6	Contingencies on material	2.00%	50751
	Service Cost		7079823
	Sub-Total		3374969
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	6750
	Sub-Total		3381719

8 Labour Cess (on Total Works Cost instead of only Material Cost) 1.00% **33817**

9 Insurance 1.00% **33817**

10 Turnkey Charges 0.00% 0

Total **3449354**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	5220037	3449320
Total Cost of the Estimate	5220037	3449320

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Cost Data for conversion of 1 Km 22 KV Overhead line by 3 C, 300 Sqmm XLPE under ground Cable					
Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	1000.00	1932.48	1932480.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	22 kV Heat shrik Straight through joint (AI) kit for XLPE 3 C X 300 sqmm	No.	4.00	24600.00	98400.00
5	22 kV Heat shrik Outdoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	2.00	13715.00	27430.00
6	Sand	Cmt	250.00	255.30	63825.00

Cost of material **2273715.00**

1	Erection cost on material	15.00%	341057
2	Contractor supervision charges on material	5.00%	113686
	Sub-Total		2728458
3	Contractor's Profit	5.00%	136423
	Sub-Total		2864881
4	Transportation on material	4.00%	90949
5	T&P on material cost	1.00%	22737
6	Contingencies on material	2.00%	45474
	Service Cost		6343665
	Sub-Total		3024041
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	6048
	Sub-Total		3030089
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	30301
9	Insurance	1.00%	30301
10	Turnkey Charges	0.00%	0

Total **3090691**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	4677259	3090661
Total Cost of the Estimate	4677259	3090661

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Cost Data for conversion of 1 Km 22 KV Overhead line by 3 C, 95 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 22 KV, 3 C / 95 mm sq.	Rmt	1000.00	1142.10	1142100.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	22 KV st. through joints for 3 C / 95 mm sq.	No.	4.00	12077.00	48308.00
5	22 kV Heat shrink Indoor termination joint (AI) kit for XLPE 3 C X 95 sqmm	No.	2.00	9023.00	18046.00
6	Sand	Cmt	250.00	255.30	63825.00

Cost of material **1423859.00**

1	Erection cost on material	15.00%	213579
2	Contractor supervision charges on material	5.00%	71193
	Sub-Total		1708631
3	Contractor's Profit	5.00%	85432
	Sub-Total		1794062
4	Transportation on material	4.00%	56954
5	T&P on material cost	1.00%	14239
6	Contingencies on material	2.00%	28477
	Service Cost		3972567
	Sub-Total		1893732
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	3787
	Sub-Total		1897520
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	18975
9	Insurance	1.00%	18975
10	Turnkey Charges	0.00%	0

Total **1935470**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	2929020	1935452
Total Cost of the Estimate	2929020	1935452

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Item Code No.5505					
Cost Data for conversion of 1 Km 11 KV Overhead line by 3 C, 300 Sqmm XLPE under ground Cable					
Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	1000.00	1468.62	1468620.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 300 sqmm	No.	4.00	5289.00	21156.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	No.	2.00	2030.00	4060.00
6	Sand	Cmt	250.00	255.30	63825.00

Cost of material **1709241.00**

1	Erection cost on material	15.00%	256386
2	Contractor supervision charges on material	5.00%	85462
	Sub-Total		2051089
3	Contractor's Profit	5.00%	102554
	Sub-Total		2153644
4	Transportation on material	4.00%	68370
5	T&P on material cost	1.00%	17092
6	Contingencies on material	2.00%	34185
	Service Cost		4768782
	Sub-Total		2273291
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	4547
	Sub-Total		2277837

8 Labour Cess (on Total Works Cost instead of only Material Cost) 1.00% **22778**

9 Insurance 1.00% **22778**

10 Turnkey Charges 0.00% 0

Total **2323394**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	3516080	2323371
Total Cost of the Estimate	3516080	2323371

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Cost Data for conversion of 1 Km 11 KV Overhead line by 3 C, 185 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 11 KV, 3 C / 185 mm sq.	Rmt	1000.00	1158.30	1158300.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 185 sqmm	No.	4.00	5043.00	20172.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 185 sqmm	No.	2.00	1907.00	3814.00
6	Sand	Cmt	250.00	255.30	63825.00

Cost of material

1397691.00

1	Erection cost on material	15.00%	209654
2	Contractor supervision charges on material	5.00%	69885
	Sub-Total		1677229
3	Contractor's Profit	5.00%	83861
	Sub-Total		1761091
4	Transportation on material	4.00%	55908
5	T&P on material cost	1.00%	13977
6	Contingencies on material	2.00%	27954
	Service Cost		3899558
	Sub-Total		1858929
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	3718
	Sub-Total		1862647
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	18626
9	Insurance	1.00%	18626
10	Turnkey Charges	0.00%	0

Total

1899900

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	2875190	1899881
Total Cost of the Estimate	2875190	1899881

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Cost Data for conversion of 1 Km 11 KV Overhead line by 3 C, 95 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	RT/U Rs.	Amount
1	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	1000.00	799.20	799200.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	143.00	134420.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	No.	4.00	4182.00	16728.00
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No.	2.00	1459.00	2918.00
6	Sand	Cmt	250.00	255.30	63825.00

Cost of material

1034251.00

1	Erection cost on material	15.00%	155138
2	Contractor supervision charges on material	5.00%	51713
	Sub-Total		1241101
3	Contractor's Profit	5.00%	62055
	Sub-Total		1303156
4	Transportation on material	4.00%	41370
5	T&P on material cost	1.00%	10343
6	Contingencies on material	2.00%	20685
	Service Cost		2885560
	Sub-Total		1375554
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2751
	Sub-Total		1378305
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	13783
9	Insurance	1.00%	13783
10	Turnkey Charges	0.00%	0

Total

1405871

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	2127558	1405857
Total Cost of the Estimate	2127558	1405857

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Item Code No. 5510					
Conversion of Overhead LT Line to underground by 3.5 C, 300 sqmm XLPE cable					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. XLPE cable 3.5 Core 300 mm2	RMT	1000	978.75	978750.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					1023685.95

1	Erection cost on material	15.00%		153553
2	Contractor supervision charges on material	5.00%		51184
Sub-Total				1228423
3	Contractor's Profit	5.00%		61421
Sub-Total				1289844
4	Transportation on material	4.00%		40947
5	T&P on material cost	1.00%		10237
6	Contingencies on material	2.00%		20474
Service Cost				2856084
Sub-Total				1361502
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		2723
Sub-Total				1364225
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		13642
9	Insurance	1.00%		13642
10	Turnkey Charges	0.00%		0

Total **1391510**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	2105824	1391496
Total Cost of the Estimate	2105824	1391496

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Item Code No. 5511					
Conversion of Overhead LT Line to underground by 3.5 C, 240 sqmm XLPE cable					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. XLPE cable 3.5 Core 240 mm2	RMT	1000	847.80	847800.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material			892735.95
1	Erection cost on material	15.00%	133910
2	Contractor supervision charges on material	5.00%	44637
	Sub-Total		1071283
3	Contractor's Profit	5.00%	53564
	Sub-Total		1124847
4	Transportation on material	4.00%	35709
5	T&P on material cost	1.00%	8927
6	Contingencies on material	2.00%	17855
	Service Cost		2490733
	Sub-Total		1187339
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	2375
	Sub-Total		1189713
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	11897
9	Insurance	1.00%	11897
10	Turnkey Charges	0.00%	0
	Total		1213508

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1836447	1213496
Total Cost of the Estimate	1836447	1213496

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Item Code No. 5512					
Conversion of Overhead LT Line to underground by 3.5 C, 185 sqmm XLPE cable					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. XLPE Armoured 3.5 Core cable 185 sq.mm.	RMT	1000	661.50	661500.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material				706435.95
1	Erection cost on material	15.00%		105965
2	Contractor supervision charges on material	5.00%		35322
Sub-Total				847723
3	Contractor's Profit	5.00%		42386
Sub-Total				890109
4	Transportation on material	4.00%		28257
5	T&P on material cost	1.00%		7064
6	Contingencies on material	2.00%		14129
Service Cost				1970956
Sub-Total				939560
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		1879
Sub-Total				941439
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		9414
9	Insurance	1.00%		9414
10	Turnkey Charges	0.00%		0
Total				960268

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1453209	960258
Total Cost of the Estimate	1453209	960258

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Item Code No. 5513					
Cost Dat Conversion of overhead LT Line to underground 3.5 x 120 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	1000	444.15	444150.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					489085.95

1	Erection cost on material		15.00%		73363
2	Contractor supervision charges on material		5.00%		24454
	Sub-Total				586903
3	Contractor's Profit		5.00%		29345
	Sub-Total				616248
4	Transportation on material		4.00%		19563
5	T&P on material cost		1.00%		4891
6	Contingencies on material		2.00%		9782
	Service Cost				1364550
	Sub-Total				650484
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		1301
	Sub-Total				651785
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		6518
9	Insurance		1.00%		6518
10	Turnkey Charges		0.00%		0
	Total				664821

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1006099	664815
Total Cost of the Estimate	1006099	664815

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Item Code No. 5515					
Conversion of Overhead LT Line to underground by 3.5 C, 70 sqmm XLPE cable					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	RMT	1000	269.28	269280.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
2	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material				314215.95
1	Erection cost on material	15.00%		47132
2	Contractor supervision charges on material	5.00%		15711
	Sub-Total			377059
3	Contractor's Profit	5.00%		18853
	Sub-Total			395912
4	Transportation on material	4.00%		12569
5	T&P on material cost	1.00%		3142
6	Contingencies on material	2.00%		6284
	Service Cost			876663
	Sub-Total			417907
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		836
	Sub-Total			418743
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		4187
9	Insurance	1.00%		4187
10	Turnkey Charges	0.00%		0
	Total			427118

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	646374	427114
Total Cost of the Estimate	646374	427114

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Item Code No. 5516					
Cost Dat Conversion of overhead LT Line to underground 3.5 x 70 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	1000	269.28	269280.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					314215.95

1	Erection cost on material	15.00%	47132
2	Contractor supervision charges on material	5.00%	15711
Sub-Total			377059
3	Contractor's Profit	5.00%	18853
Sub-Total			395912
4	Transportation on material	4.00%	12569
5	T&P on material cost	1.00%	3142
6	Contingencies on material	2.00%	6284
Service Cost			876663
Sub-Total			417907
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	836
Sub-Total			418743
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4187
9	Insurance	1.00%	4187
10	Turnkey Charges	0.00%	0

Total **427118**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	646374	427114
Total Cost of the Estimate	646374	427114

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Item Code No. 5517					
Conversion of Overhead LT Line to underground by 3.5 C, 50 sqmm XLPE cable					
Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	RMT	1000	202.50	202500.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material				247435.95
1	Erection cost on material	15.00%		37115
2	Contractor supervision charges on material	5.00%		12372
	Sub-Total			296923
3	Contractor's Profit	5.00%		14846
	Sub-Total			311769
4	Transportation on material	4.00%		9897
5	T&P on material cost	1.00%		2474
6	Contingencies on material	2.00%		4949
	Service Cost			690346
	Sub-Total			329090
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		658
	Sub-Total			329748
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		3297
9	Insurance	1.00%		3297
10	Turnkey Charges	0.00%		0
	Total			336343

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	509000	336340
Total Cost of the Estimate	509000	336340

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Conversion of Overhead LT Line to underground by 3.5 C, 16 sqmm XLPE cable

Sr.No	Description of Material	Unit	Qty.	RT/U Rs.	Amount
1	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	1000	90.48	90480.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95

Cost of material **135415.95**

1	Erection cost on material	15.00%	20312
2	Contractor supervision charges on material	5.00%	6771
	Sub-Total		162499
3	Contractor's Profit	5.00%	8125
	Sub-Total		170624
4	Transportation on material	4.00%	5417
5	T&P on material cost	1.00%	1354
6	Contingencies on material	2.00%	2708
	Service Cost		377811
	Sub-Total		180103
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	360
	Sub-Total		180463
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	1805
9	Insurance	1.00%	1805
10	Turnkey Charges	0.00%	0

Total **184073**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	278564	184071
Total Cost of the Estimate	278564	184071

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Cost Dat Conversion of overhead LT Line to underground 2 C x 16 sqmm cable for 1 Km					
Sr.No.	Particulars	Unit	Qty	Rate (Rs.)	Amount
1	L.T. XLPE Amourred 2C 16 Sqmm cable	Rmt	1000	70.20	70200.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	572.00	17160.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	27775.95	27775.95
Cost of material					115135.95

1	Erection cost on material	15.00%		17270
2	Contractor supervision charges on material	5.00%		5757
Sub-Total				138163
3	Contractor's Profit	5.00%		6908
Sub-Total				145071
4	Transportation on material	4.00%		4605
5	T&P on material cost	1.00%		1151
6	Contingencies on material	2.00%		2303
Service Cost				321229
Sub-Total				153131
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		306
Sub-Total				153437
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		1534
9	Insurance	1.00%		1534
10	Turnkey Charges	0.00%		0

Total **156506**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	236846	156504
Total Cost of the Estimate	236846	156504

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Estimate for R. & M work of 33/11 KV Sub-Station [Indoor to Outdoor] 2 x 5 MVA

Sr no.	Description	Unit	Qty.	Rate	Total cost
1	Renovation of existing 33/11 KV indoor S/S to out door S/S as specified in relevant sections of volume II, sheet no.28.1of volume III & drawings in volume IV	No.	1	6214017.48	6214017.48
Total					6214017.48

1	Erection cost on material	5.00%		310701
2	Contractor supervision charges on material	5.00%		310701
	Sub-Total			6835419
3	Contractor's Profit	5.00%		341771
	Sub-Total			7177190
4	Transportation on material	4.00%		248561
5	T&P on material cost	1.00%		62140
6	Contingencies on material	2.00%		124280
	Service Cost			15410763
	Sub-Total			7612171
7	BG Charges on 10% of the LOA amount (on Material-centage)	0.20%		15224
	Sub-Total			7627396
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		76274
9	Insurance	1.00%		76274
10	Turnkey Charges	0.00%		0

Total **7779944**

Particulars	DPR Amount	Tender/Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	11809740	7779950
Total Cost of the Estimate	11809740	7779950

Estimate For R. & M. work [Indoor to Outdoor] at 33 KV Sub-Station

Sr.No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
11 KV SIDE					
1	11 kv 250 MVA OD Switchgears comprising of 1 Incomer and 3 single feeder with associated OD panels, Isolators, C.T. & P.T. etc.	Set	2	980079.45	1960158.90
2	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
3	11 KV OD type VCB with directional relay with Bus coupler complete	Set	1	543419.85	543419.85
4	Take off structure for 3 outgoing feeder as per Sheet:A	No.	1	624651.68	624651.68
5	11 kv SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	Set	2	419701.20	839402.40
6	11 kv Pin Insulators with G.I. Pins	No.	18	108.66	1955.91
7	XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	400	1468.62	587448.00
8	11 kv heat shrinkable Straight through joint kit for 3 C X 300 sqmm	No.	8	5289.00	42312.00
9	AAAC 232 mm2	Rmt	300	159.25	47775.00
10	Clamps and Connectors as per Sheet:B	No.	1	145308.25	145308.25
11	Structure for 11 KV Main Bus as per Sheet:C	No.	1	299443.45	299443.45
12	Station Transformer 11/0.4 KV 100 KVA as per sheet:E	No.	1	264463.51	264463.51
13	Control cables for S/S as per Sheet :D	No.	1	225280.67	225280.67
14	Earthing works as per sheet :F	No.	1	334348.95	334348.95
15	Concreting ration 1:3:6	CUM	75	3935.10	295132.50
Cost of material					6214017.48

Sheet: A

Estimate for Take off structure for 11 KV Feeders 3 outlets at 1x5 MVA,33/11 KV Sub Stn.

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	16	12492.90	199886.40
2	MS Channel 100x50x6 mm	Kg.	2130.00	69.93	148950.90
3	MS angle 50x50x6 mm	Kg.	100.00	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	150.00	65.48	9821.25
5	11KV A.B. Switch, 400 A	Nos.	10	11088.00	110880.00
6	Disc Insulator 11 KV 70 KN	Nos.	72	310.01	22320.92
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	72	369.91	26633.45
8	11 kv Pin Insulators with G.I. Pins	Nos.	18	108.66	1955.91
9	Earthing Sets H.T	Sets	6	461.70	2770.20
10	L.As. 11 KV (Gapless type) with disconnector	Sets	6	1458.20	8749.20
11	AAAC 100 mm ²	Rmt.	200.00	66.69	13338.47
12	G.I.Strip (25 X 3 mm)	Kg.	80.00	90.15	7212.24
13	G.I.Nut Bolts	Kg.	50.00	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	15.00	3935.10	59026.50
15	Miscellaneous material	LS	1	517.50	517.50
				Total:	624651.68

Sheet: B

Estimate for Crimping Type Clamps & Connectors at 2 x 5 MVA, 3311 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	20	825.92	16518.42
b)	DOG TO DOG or equivalent AAAC	Nos.	60	642.38	38542.85
2	T-Connector for 100 sq mm conductor	Nos.	47	842.95	39618.65
3	T-Connector for 200 sq mm conductor(Compression type)	Nos.	9	3854.80	34693.20
4	T Connectors suitable for 200 sqmm twin conductor	Nos.	18	994.75	17905.50
5	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
6	Sundries	L.S.	1	885.50	885.50
				Total:	145308.25

Sheet: C

Estimate for Structure of 11 KV Main Bus at 2x5 MVA, 33/11 KV Sub-Station (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	RSJ 152x152, 8 m long	No.	8	17913.15	143305.20
2	MS Channel 100x50x6 mm	Kg.	650	69.93	45454.50
3	MS Flat 75x10 mm	Kg.	100	65.48	6547.50
4	Concreting ration 1:3:6	Cmt.	7	3935.10	27545.70
5	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
6	Strain Hardware for 0.2 ACSR or equivalent AAAC for twin conductor	No.	12	532.45	6389.40
7	AAAC 232 mm ²	Rmt.	400	159.25	63700.00
8	G.I.Nut Boltss Washer & Misc Material	LS	1	2781.00	2781.00
				Total:	299443.45

Sheet: D

Estimate for multistand control cable

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Amoured 2C 16 Sqmm cable	Rmt	200	70.20	14040.00
6	PVC pipe 110 mm dia 4Kg/sqcm pressure	Rmt	70	121.90	8533.00
7	Miscellaneous material	LS	1	517.50	517.50
				TOTAL	225280.67

Sheet: E

Estimate for 100 KVA, 11/0.43 KV Station Transformer for 1x5 MVA S/S. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate in Rs.	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	130	69.93	9090.90
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	20	269.28	5385.60
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Bentonite clay	Kg.	225	14.95	3363.75
15	Plinth for station Transformer	Cmt	7.6	3935.10	29906.76
16	AAAC 55 mm2	Mtr	30	34.54	1036.21
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	264463.51

Sheet: F

Estimate for Earthing Work

Sr.No.	Description of Material	Unit	Qty.	Rate in Rs.	Amt.Rs.
1	MS Flat 75x10 mm	Kg.	800	65.48	52380.00
2	M.S. Flats(50 X 10mm)	Kg	700	65.48	45832.50
3	G.I.Strip (25 X 3 mm)	Kg	500	90.15	45076.50
4	Earthing Sets H.T with clamp	Set	20	8142.00	162840.00
5	Bentonite clay	Kg.	1500	14.95	22425.00
6	RCC Ring work for earthing pits	No.	20	266.00	5320.00
7	Welding Rods	No.	50	4.03	201.25
8	Hiring of welding machine	No.	1	273.70	273.70
				Total:	334346.95

Item Code No. 5705A					
Replacement of 33 kV Ct 200-100/1-1-1 A, 3 Core					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	C.T.-33KV200-100/1-1-1A/3Core	No	1	28623.60	28623.60
	Cost of Material				28623.60
1	Erection cost on material	5.00%			1431
2	Contractor supervision charges on material	5.00%			1431
	Sub-Total				31486
3	Contractor's Profit	5.00%			1574
	Sub-Total				33060
4	Transportation on material	4.00%			1145
5	T&P on material cost	1.00%			286
6	Contingencies on material	2.00%			572
	Service Cost				70987
	Sub-Total				35064
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			70
	Sub-Total				35134
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			351
9	Insurance	1.00%			351
10	Turnkey Charges	0.00%			0
	Total				35837
	Particulars	DPR Amount	Tender/ Estimate Amount		
	Cost with overheads on Material	54399	35837		
	Total Cost of the Estimate	54399	35837		

Item Code No. 5705B					
Replacement of 33 kV Ct 400-200/1-1-1 A, 3 Core					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	33 kV C. T. (400-200/1-1-1)	No	1	30013.20	30013.20
	Cost of Material				30013.20
1	Erection cost on material			5.00%	1501
2	Contractor supervision charges on material			5.00%	1501
	Sub-Total				33015
3	Contractor's Profit			5.00%	1651
	Sub-Total				34665
4	Transportation on material			4.00%	1201
5	T&P on material cost			1.00%	300
6	Contingencies on material			2.00%	600
	Service Cost				74433
	Sub-Total				36766
7	BG Charges on 10% of the LOA amount (on Material+centage			0.20%	74
	Sub-Total				36840
8	Labour Cess (on Total Works Cost instead of only Material Cost)			1.00%	368
9	Insurance			1.00%	368
10	Turnkey Charges			0.00%	0
	Total				37576
	Particulars		DPR Amount		Tender/ Estimate Amount
			90.05%		25.200%
	Cost with overheads on Material		57040		37577
	Total Cost of the Estimate		57040		37577

Item Code No. 5707A					
Replacement of 11 kV Ct 400-200/5-5-5 A, 3 Core O/D					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	11 KV CT 400 - 200 / 5 - 5 Outdoor	No	1	12733.20	12733.20
	Cost of Material				12733.20
1	Erection cost on material			5.00%	637
2	Contractor supervision charges on material			5.00%	637
	Sub-Total				14007
3	Contractor's Profit			5.00%	700
	Sub-Total				14707
4	Transportation on material			4.00%	509
5	T&P on material cost			1.00%	127
6	Contingencies on material			2.00%	255
	Service Cost				31578
	Sub-Total				15598
7	BG Charges on 10% of the LOA amount (on Material+centage			0.20%	31
	Sub-Total				15629
8	Labour Cess (on Total Works Cost instead of only Material Cost)			1.00%	156
9	Insurance			1.00%	156
10	Turnkey Charges			0.00%	0
	Total				15942
	Particulars	DPR Amount	Tender/ Estimate Amount		
		90.05%	25.200%		
	Cost with overheads on Material	24199	15942		
	Total Cost of the Estimate	24199	15942		

Item Code No. 5707B					
Replacement of 11 kV Ct 400-200-100/5-5-5 A, 3 Core I/D					
Sr.No.	Description	Unit	Qty.	Rate	Amount
1	CT - 11 KV 400 - 200 - 100/ 5-5-5 A / 3 Core I/D	No	1	17082.00	17082.00
	Cost of Material				17082.00
1	Erection cost on material			5.00%	854
2	Contractor supervision charges on material			5.00%	854
	Sub-Total				18790
3	Contractor's Profit			5.00%	940
	Sub-Total				19730
4	Transportation on material			4.00%	683
5	T&P on material cost			1.00%	171
6	Contingencies on material			2.00%	342
	Service Cost				42363
	Sub-Total				20925
7	BG Charges on 10% of the LOA amount (on Material+centage			0.20%	42
	Sub-Total				20967
8	Labour Cess (on Total Works Cost instead of only Material Cost)			1.00%	210
9	Insurance			1.00%	210
10	Turnkey Charges			0.00%	0
	Total				21387
	Particulars	DPR Amount	Tender/ Estimate Amount		
	Cost with overheads on Material	32464	21387		
	Total Cost of the Estimate	32464	21387		

Item Code No. 5708					
Replacement of 33 kV PT					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	33 KV P.T.	No	1	22651.20	22651.20
	Cost of material				22651.20
1	Erection cost on material		5.00%		1133
2	Contractor supervision charges on material		5.00%		1133
	Sub-Total				24916
3	Contractor's Profit		5.00%		1246
	Sub-Total				26162
4	Transportation on material		4.00%		906
5	T&P on material cost		1.00%		227
6	Contingencies on material		2.00%		453
	Service Cost				56175
	Sub-Total				27748
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		55
	Sub-Total				27803
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		278
9	Insurance		1.00%		278
10	Turnkey Charges		0.00%		0
	Total				28359
	Particulars	DPR Amount	Tender/ Estimate Amount		
	Cost with overheads on Material	90.05%	25.200%		
	Total Cost of the Estimate	43049	28359		

Item Code No. 5709					
Replacement of 22 kV PT					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	22 KV P.T.	No	1	21426.00	21426.00
	Cost of material				21426.00
1	Erection cost on material		5.00%		1071
2	Contractor supervision charges on material		5.00%		1071
	Sub-Total				23569
3	Contractor's Profit		5.00%		1178
	Sub-Total				24747
4	Transportation on material		4.00%		857
5	T&P on material cost		1.00%		214
6	Contingencies on material		2.00%		429
	Service Cost				53136
	Sub-Total				26247
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		52
	Sub-Total				26299
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		263
9	Insurance		1.00%		263
10	Turnkey Charges		0.00%		0
	Total				26825
Particulars		DPR Amount	Tender/ Estimate Amount		
		90.05%	25.200%		
Cost with overheads on Material		40720	26825		
Total Cost of the Estimate		40720	26825		

Item Code No. 5710					
Replacement of 11 kV PT					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV PT	Set	1	10758.00	10758.00
	Cost of material				10758.00

1	Erection cost on material	5.00%			538
2	Contractor supervision charges on material	5.00%			538
	Sub-Total				11834
3	Contractor's Profit	5.00%			592
	Sub-Total				12425
4	Transportation on material	4.00%			430
5	T&P on material cost	1.00%			108
6	Contingencies on material	2.00%			215
	Service Cost				26680
	Sub-Total				13179
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			26
	Sub-Total				13205
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			132
9	Insurance	1.00%			132
10	Turnkey Charges	0.00%			0

Total **13469**

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	20446	13469
Total Cost of the Estimate	20446	13469

Item Code No. 5714					
Replacement of 11 kV VCB 400Amp (Indoor Type)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV VCB 400 A Indoor	Set	1	323547.90	323547.90
Cost of material					323547.90

1	Erection cost on material	5.00%			16177
2	Contractor supervision charges on material	5.00%			16177
	Sub-Total				355903
3	Contractor's Profit	5.00%			17795
	Sub-Total				373698
4	Transportation on material	4.00%			12942
5	T&P on material cost	1.00%			3235
6	Contingencies on material	2.00%			6471
	Service Cost				802399
	Sub-Total				396346
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			793
	Sub-Total				397139
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			3971
9	Insurance	1.00%			3971
10	Turnkey Charges	0.00%			0

Total 405082

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	614903	405082
Total Cost of the Estimate	614903	405082

Item Code No. 5715					
Replacement of 11 kV VCB 400Amp (Outdoor Type)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV VCB 400 A Outdoor	Set	1	119140.00	119140.00
Cost of material					119140.00

1	Erection cost on material	5.00%			5957
2	Contractor supervision charges on material	5.00%			5957
Sub-Total					131054
3	Contractor's Profit	5.00%			6553
Sub-Total					137607
4	Transportation on material	4.00%			4766
5	T&P on material cost	1.00%			1191
6	Contingencies on material	2.00%			2383
Service Cost					295467
Sub-Total					145947
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			292
Sub-Total					146238
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			1462
9	Insurance	1.00%			1462
10	Turnkey Charges	0.00%			0

Total **149163**

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	226426	149163
Total Cost of the Estimate	226426	149163

Item Code No. 5716					
Replacement of 11 kV VCB 800Amp (Indoor Type)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV VCB 800 A Indoor	Set	1	332140.70	332140.70
	Cost of material				332140.70
1	Erection cost on material		5.00%		16607
2	Contractor supervision charges on material		5.00%		16607
	Sub-Total				365355
3	Contractor's Profit		5.00%		18268
	Sub-Total				383623
4	Transportation on material		4.00%		13286
5	T&P on material cost		1.00%		3321
6	Contingencies on material		2.00%		6643
	Service Cost				823709
	Sub-Total				406872
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		814
	Sub-Total				407686
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		4077
9	Insurance		1.00%		4077
10	Turnkey Charges		0.00%		0
	Total				415840
	Particulars	DPR Amount	Tender/ Estimate Amount		
	Cost with overheads on Material	631233	415840		
	Total Cost of the Estimate	631233	415840		

Item Code No. 5717					
Replacement of 11 kV VCB 800Amp (Outdoor Type)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV VCB 800 A Outdoor	Set	1	135085.90	135085.90
Cost of material					135085.90

1	Erection cost on material	5.00%			6754
2	Contractor supervision charges on material	5.00%			6754
	Sub-Total				148594
3	Contractor's Profit	5.00%			7430
	Sub-Total				156024
4	Transportation on material	4.00%			5403
5	T&P on material cost	1.00%			1351
6	Contingencies on material	2.00%			2702
	Service Cost				335013
	Sub-Total				165480
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			331
	Sub-Total				165811
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			1658
9	Insurance	1.00%			1658
10	Turnkey Charges	0.00%			0

Total **169127**

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	256731	169128
Total Cost of the Estimate	256731	169128

Item Code No. 5718					
Replacement of 33 kV Isolator 800Amp (With EB)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	33 KV Isolators with EB (800 A)	Set	1	66228.00	66228.00
Cost of material					66228.00

1	Erection cost on material		5.00%		3311
2	Contractor supervision charges on material		5.00%		3311
Sub-Total					72851
3	Contractor's Profit		5.00%		3643
Sub-Total					76493
4	Transportation on material		4.00%		2649
5	T&P on material cost		1.00%		662
6	Contingencies on material		2.00%		1325
Service Cost					164245
Sub-Total					81129
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		162
Sub-Total					81292
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		813
9	Insurance		1.00%		813
10	Turnkey Charges		0.00%		0

Total **82917**

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	125866	82917
Total Cost of the Estimate	125866	82917

Item Code No. 5720					
Replacement of 11 kV Isolator Without EB					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV Isolators without EB (800 Amp.)	Set	1	31956.00	31956.00
Cost of material					31956.00
1	Erection cost on material			5.00%	1598
2	Contractor supervision charges on material			5.00%	1598
Sub-Total					35152
3	Contractor's Profit			5.00%	1758
Sub-Total					36909
4	Transportation on material			4.00%	1278
5	T&P on material cost			1.00%	320
6	Contingencies on material			2.00%	639
Service Cost					79251
Sub-Total					39146
7	BG Charges on 10% of the LOA amount (on Material+centage			0.20%	78
Sub-Total					39224
8	Labour Cess (on Total Works Cost instead of only Material Cost)			1.00%	392
9	Insurance			1.00%	392
10	Turnkey Charges			0.00%	0
Total					40009
Particulars		DPR Amount	Tender/ Estimate Amount		
		90.05%	25.200%		
Cost with overheads on Material		60732	40009		
Total Cost of the Estimate		60732	40009		

Item Code No. 5721					
Replacement of 22 kV Isolator Without EB					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	22 KV Isolators without EB (800 Amp.)	Set	1	42816.00	42816.00
	Cost of material				42816.00
1	Erection cost on material			5.00%	2141
2	Contractor supervision charges on material			5.00%	2141
	Sub-Total				47098
3	Contractor's Profit			5.00%	2355
	Sub-Total				49452
4	Transportation on material			4.00%	1713
5	T&P on material cost			1.00%	428
6	Contingencies on material			2.00%	856
	Service Cost				106184
	Sub-Total				52450
7	BG Charges on 10% of the LOA amount (on Material+centage			0.20%	105
	Sub-Total				52554
8	Labour Cess (on Total Works Cost instead of only Material Cost)			1.00%	526
9	Insurance			1.00%	526
10	Turnkey Charges			0.00%	0
	Total				53606
	Particulars			DPR Amount	Tender/ Estimate Amount
				90.05%	25.200%
	Cost with overheads on Material			81372	53606
	Total Cost of the Estimate			81372	53606

Item Code No. 5722					
Replacement of 33 kV Isolator Without EB					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	33 KV Isolators without EB (800 Amp.)	Set	1	60612.00	60612.00
Cost of material					60612.00
1	Erection cost on material		5.00%		3031
2	Contractor supervision charges on material		5.00%		3031
Sub-Total					66673
3	Contractor's Profit		5.00%		3334
Sub-Total					70007
4	Transportation on material		4.00%		2424
5	T&P on material cost		1.00%		606
6	Contingencies on material		2.00%		1212
Service Cost					150318
Sub-Total					74250
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		148
Sub-Total					74398
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		744
9	Insurance		1.00%		744
10	Turnkey Charges		0.00%		0
Total					75886
Particulars		DPR Amount	Tender/ Estimate Amount		
		90.05%	25.200%		
Cost with overheads on Material		115193	75886		
Total Cost of the Estimate		115193	75886		

Item Code No. 5724					
Replacement of 22 kV Lightning Arrestor (Station type)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	22 KV Lightning Arrestors (Station type)	Set	1	13666.01	13666.01
	Cost of material				13666.01

1	Erection cost on material	5.00%			683
2	Contractor supervision charges on material	5.00%			683
	Sub-Total				15033
3	Contractor's Profit	5.00%			752
	Sub-Total				15784
4	Transportation on material	4.00%			547
5	T&P on material cost	1.00%			137
6	Contingencies on material	2.00%			273
	Service Cost				33892
	Sub-Total				16741
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			33
	Sub-Total				16774
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			168
9	Insurance	1.00%			168
10	Turnkey Charges	0.00%			0

Total 17110

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	25972	17110
Total Cost of the Estimate	25972	17110

Item Code No. 5725					
Replacement of 33 kV Lightning Arrestor (Station type)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	33 KV Lightning Arrestors (Station type)	Set	1	11296.50	11296.50
	Cost of material				11296.50
1	Erection cost on material			5.00%	565
2	Contractor supervision charges on material			5.00%	565
	Sub-Total				12426
3	Contractor's Profit			5.00%	621
	Sub-Total				13047
4	Transportation on material			4.00%	452
5	T&P on material cost			1.00%	113
6	Contingencies on material			2.00%	226
	Service Cost				28015
	Sub-Total				13838
7	BG Charges on 10% of the LOA amount (on Material+centage			0.20%	28
	Sub-Total				13866
8	Labour Cess (on Total Works Cost instead of only Material Cost)			1.00%	139
9	Insurance			1.00%	139
10	Turnkey Charges			0.00%	0
	Total				14143

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	21469	14143
Total Cost of the Estimate	21469	14143

Item Code No. 5727					
Replacement of 22 kV Lightning Arrestor (Screw type)					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	22 KV Lightning Arrestors (Screw type)	Set	1	9853.20	9853.20
	Cost of material				9853.20
1	Erection cost on material			5.00%	493
2	Contractor supervision charges on material			5.00%	493
	Sub-Total				10839
3	Contractor's Profit			5.00%	542
	Sub-Total				11380
4	Transportation on material			4.00%	394
5	T&P on material cost			1.00%	99
6	Contingencies on material			2.00%	197
	Service Cost				24436
	Sub-Total				12070
7	BG Charges on 10% of the LOA amount (on Material+centage			0.20%	24
	Sub-Total				12094
8	Labour Cess (on Total Works Cost instead of only Material Cost)			1.00%	121
9	Insurance			1.00%	121
10	Turnkey Charges			0.00%	0
	Total				12336

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	18726	12336
Total Cost of the Estimate	18726	12336

Item Code No. 5728					
Replacement of C&R pannel with differential protection for 33 kV					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	C&R panel for 33 KV Transformer with Diff. Protection	Set	1	74800.80	74800.80
	Cost of material				74800.80
1	Erection cost on material			5.00%	3740
2	Contractor supervision charges on material			5.00%	3740
	Sub-Total				82281
3	Contractor's Profit			5.00%	4114
	Sub-Total				86395
4	Transportation on material			4.00%	2992
5	T&P on material cost			1.00%	748
6	Contingencies on material			2.00%	1496
	Service Cost				185506
	Sub-Total				91631
7	BG Charges on 10% of the LOA amount (on Material+centage			0.20%	183
	Sub-Total				91814
8	Labour Cess (on Total Works Cost instead of only Material Cost)			1.00%	918
9	Insurance			1.00%	918
10	Turnkey Charges			0.00%	0
	Total				93651
	Particulars	DPR Amount	Tender/ Estimate Amount		
		90.05%	25.200%		
	Cost with overheads on Material	142159	93651		
	Total Cost of the Estimate	142159	93651		

Replacement of control pannel 22 kV

Replacement of control pannel 22 kV					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	Replacement of Control Panel 22 KV	Set	1	79178.40	79178.40
	Cost of material				79178.40

1	Erection cost on material	5.00%			3959
2	Contractor supervision charges on material	5.00%			3959
	Sub-Total				87096
3	Contractor's Profit	5.00%			4355
	Sub-Total				91451
4	Transportation on material	4.00%			3167
5	T&P on material cost	1.00%			792
6	Contingencies on material	2.00%			1584
	Service Cost				196362
	Sub-Total				96994
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			194
	Sub-Total				97188
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			972
9	Insurance	1.00%			972
10	Turnkey Charges	0.00%			0

Total 99131

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	150479	99131
Total Cost of the Estimate	150479	99131

Item Code No. 5732					
Replacement 30 V, 100 AH Lead Acid Battery sets					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	30 V, 100 AH Lead Acid Battery sets	No.	1	39240.00	39240.00
	Cost of material				39240.00

1	Erection cost on material	5.00%			1962
2	Contractor supervision charges on material	5.00%			1962
	Sub-Total				43164
3	Contractor's Profit	5.00%			2158
	Sub-Total				45322
4	Transportation on material	4.00%			1570
5	T&P on material cost	1.00%			392
6	Contingencies on material	2.00%			785
	Service Cost				97315
	Sub-Total				48069
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			96
	Sub-Total				48165
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			482
9	Insurance	1.00%			482
10	Turnkey Charges	0.00%			0

Total 49128

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	74576	49128
Total Cost of the Estimate	74576	49128

Item Code No. 5733					
Replacement Battery chargers suitable for above					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	Battery chargers suitable for above	No	1	41400.00	41400.00
	Cost of material				41400.00

1	Erection cost on material	5.00%			2070
2	Contractor supervision charges on material	5.00%			2070
	Sub-Total				45540
3	Contractor's Profit	5.00%			2277
	Sub-Total				47817
4	Transportation on material	4.00%			1656
5	T&P on material cost	1.00%			414
6	Contingencies on material	2.00%			828
	Service Cost				102672
	Sub-Total				50715
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			101
	Sub-Total				50816
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			508
9	Insurance	1.00%			508
10	Turnkey Charges	0.00%			0
	Total				51833

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	78681	51833
Total Cost of the Estimate	78681	51833

Item Code No. 5734					
Replacement of Battery with Battery Charger					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	30 V, 100 AH Lead Acid Battery sets	No	1	39240.00	39240.00
2	Battery chargers suitable for above	No	1	41400.00	41400.00
Cost of material					80640.00

1	Erection cost on material	5.00%			4032
2	Contractor supervision charges on material	5.00%			4032
Sub-Total					88704
3	Contractor's Profit	5.00%			4435
Sub-Total					93139
4	Transportation on material	4.00%			3226
5	T&P on material cost	1.00%			806
6	Contingencies on material	2.00%			1613
Service Cost					199987
Sub-Total					98784
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			198
Sub-Total					98982
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			990
9	Insurance	1.00%			990
10	Turnkey Charges	0.00%			0

Total **100961**

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	153256	100961
Total Cost of the Estimate	153256	100961

Item Code No. 5740					
Replacement of I/D Switchgear, 11kV, 250 MVA with 2 I/C + 8 OG + 1 B/C					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3584805.30	3584805.30
Cost of material					3584805.30
1	Erection cost on material		5.00%		179240
2	Contractor supervision charges on material		5.00%		179240
Sub-Total					3943286
3	Contractor's Profit		5.00%		197164
Sub-Total					4140450
4	Transportation on material		4.00%		143392
5	T&P on material cost		1.00%		35848
6	Contingencies on material		2.00%		71696
Service Cost					8890317
Sub-Total					4391386
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		8783
Sub-Total					4400169
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		44002
9	Insurance		1.00%		44002
10	Turnkey Charges		0.00%		0
Total					4488173

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	6812922	4488176
Total Cost of the Estimate	6812922	4488176

Item Code No. 5741					
Replacement of O/D Switchgear, 11kV, 250 MVA with 1 I/C + 3 OG +1 B/C					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV 250 MVA OD switchgear comprising of one incomer ,3 O/G & 1 B/C with associated OD panels, Isolators, CT & PT etc.	Set	1	1230339.00	1230339.00
Cost of material					1230339.00

1	Erection cost on material	5.00%		61517
2	Contractor supervision charges on material	5.00%		61517
Sub-Total				
3	Contractor's Profit	5.00%		67669
Sub-Total				
4	Transportation on material	4.00%		49214
5	T&P on material cost	1.00%		12303
6	Contingencies on material	2.00%		24607
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		3014
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		15102
9	Insurance	1.00%		15102
10	Turnkey Charges	0.00%		0

Total 1540383

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	2338259	1540384
Total Cost of the Estimate	2338259	1540384

Item Code No. 5742					
Replacement of O/D Switchgear, 11kV, 250 MVA with 2 I/C + 4 OG					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV 250 MVA OD switchgear comprising of 2 incomer & 4 single feeders with associated OD pannels , Isolators CT & PT etc	Set	1	1722473.45	1722473.45
Cost of material					1722473.45

1	Erection cost on material	5.00%		86124
2	Contractor supervision charges on material	5.00%		86124
Sub-Total				
3	Contractor's Profit	5.00%		94736
Sub-Total				
1894721				
4	Transportation on material	4.00%		68899
5	T&P on material cost	1.00%		17225
6	Contingencies on material	2.00%		34449
Service Cost				
4271734				
Sub-Total				
2110030				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		4220
Sub-Total				
2114250				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		21143
9	Insurance	1.00%		21143
10	Turnkey Charges	0.00%		0
Total				
2156535				

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	3273561	2156537
Total Cost of the Estimate	3273561	2156537

Item Code No. 5743					
Replacement of O/D Switchgear, 11kV, 250 MVA with 1 I/C + 1 OG					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11 KV 250 MVA O.D. Switch gear with one I/C+ one O/G	Set	1	492135.60	492135.60
Cost of material					492135.60

1	Erection cost on material	5.00%		24607
2	Contractor supervision charges on material	5.00%		24607
Sub-Total				
3	Contractor's Profit	5.00%		27067
Sub-Total				
4	Transportation on material	4.00%		19685
5	T&P on material cost	1.00%		4921
6	Contingencies on material	2.00%		9843
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		1206
Sub-Total				
604072				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		6041
9	Insurance	1.00%		6041
10	Turnkey Charges	0.00%		0
Total				
616153				

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	935304	616154
Total Cost of the Estimate	935304	616154

Item Code No. 5744					
Replacement of I/D Switchgear, 11kV, 500 MVA with 2 I/C + 8 OG + 1 B/C					
Sr.No.	Description	Unit	Qty	Rate	Amt
1	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3584805.30	3584805.30
	Cost of material				3584805.30

1	Erection cost on material	5.00%		179240
2	Contractor supervision charges on material	5.00%		179240
	Sub-Total			3943286
3	Contractor's Profit	5.00%		197164
	Sub-Total			4140450
4	Transportation on material	4.00%		143392
5	T&P on material cost	1.00%		35848
6	Contingencies on material	2.00%		71696
	Service Cost			8890317
	Sub-Total			4391386
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		8783
	Sub-Total			4400169
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		44002
9	Insurance	1.00%		44002
10	Turnkey Charges	0.00%		0
	Total			4488173

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	6812922	4488176
Total Cost of the Estimate	6812922	4488176

Item Code No. 5745						
33 kV Isolator ,800 A without EB						
Sr. No.	Description of Material	Unit	QTY	Rate/Unit	Rs.	Amount
1	33 KV Isolators without EB (800 Amp.)	Set	1.00	60612.00		60612.00
	Cost of material					60612.00

1	Erection cost on material	5.00%				3031
2	Contractor supervision charges on material	5.00%				3031
	Sub-Total					66673
3	Contractor's Profit	5.00%				3334
	Sub-Total					70007
4	Transportation on material	4.00%				2424
5	T&P on material cost	1.00%				606
6	Contingencies on material	2.00%				1212
	Service Cost					150318
	Sub-Total					74250
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%				148
	Sub-Total					74398
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%				744
9	Insurance	1.00%				744
10	Turnkey Charges	0.00%				0

Total 75886

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	115193	75886
Total Cost of the Estimate	115193	75886

Item Code No. 5746						
33 kV Isolator ,800 A without EB with structure and PT						
Sr. No.	Description of Material	Unit	QTY	Rate/Unit	Rs.	Amount
1	33 KV P.T.	No	3	22651.20		67953.60
2	33 KV Isolators without EB (800 Amp.)	Set	1	60612.00		60612.00
4	AAAC 100 mm ²	mtr	300.00	66.69		20007.70
3	Structure for 33 KV PT	Kg	315	69.93		22027.95
5	Marshalling Box	No	1	5783.40		5783.40
6	Armoured Copper control cable 4C X 2.5 Sq mm	m	50	113.88		5694.00
7	Disc Insulator 11 KV 70 KN	No	18	310.01		5580.23
8	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	3	369.91		1109.73
9	G.I.Nut Boltss Washer & Misc Material	LS	1	2781.00		2781.00
	Cost of material			Total		191549.61

1	Erection cost on material	5.00%			9577
2	Contractor supervision charges on material	5.00%			9577
	Sub-Total				210705
3	Contractor's Profit	5.00%			10535
	Sub-Total				221240
4	Transportation on material	4.00%			7662
5	T&P on material cost	1.00%			1915
6	Contingencies on material	2.00%			3831
	Service Cost				475043
	Sub-Total				234648
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			469
	Sub-Total				235118
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			2351
9	Insurance	1.00%			2351
10	Turnkey Charges	0.00%			0
	Total				239820

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	364040	239820
Total Cost of the Estimate	364040	239820

Item Code No. 5747						
11 kV Isolator ,400 A with EB (Indoor)						
Sr. No.	Description of Material	Unit	QTY	Rate/Unit	Rs.	Amount
1	11 KV Isolator with EB 400 A	Set	1	32720.40		32720.40
	Cost of material			Total		32720.40

1	Erection cost on material	5.00%				1636
2	Contractor supervision charges on material	5.00%				1636
	Sub-Total					35992
3	Contractor's Profit	5.00%				1800
	Sub-Total					37792
4	Transportation on material	4.00%				1309
5	T&P on material cost	1.00%				327
6	Contingencies on material	2.00%				654
	Service Cost					81147
	Sub-Total					40082
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%				80
	Sub-Total					40163
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%				402
9	Insurance	1.00%				402
10	Turnkey Charges	0.00%				0
	Total					40966

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	62185	40966
Total Cost of the Estimate	62185	40966

Item Code No. 5748					
Replacement of 33/11 kv 5 MVA Power transformer					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
	Cost of material			Total	4054683.15
1	Erection cost on material			5.00%	202734
2	Contractor supervision charges on material			5.00%	202734
	Sub-Total				4460151
3	Contractor's Profit			5.00%	223008
	Sub-Total				4683159
4	Transportation on material			4.00%	162187
5	T&P on material cost			1.00%	40547
6	Contingencies on material			2.00%	81094
	Service Cost				10055614
	Sub-Total				4966987
7	BG Charges on 10% of the LOA amount (on Material+centage			0.20%	9934
	Sub-Total				4976921
8	Labour Cess (on Total Works Cost instead of only Material Cost)			1.00%	49769
9	Insurance			1.00%	49769
10	Turnkey Charges			0.00%	0
	Total				5076459

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	7705925	5076463
Total Cost of the Estimate	7705925	5076463

Item Code No. 5749					
Replacement of 33/11 kv 5 MVA Power transformer					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
	Cost of material			Total	6327722.70

1	Erection cost on material	5.00%		316386
2	Contractor supervision charges on material	5.00%		316386
	Sub-Total			6960495
3	Contractor's Profit	5.00%		348025
	Sub-Total			7308520
4	Transportation on material	4.00%		253109
5	T&P on material cost	1.00%		63277
6	Contingencies on material	2.00%		126554
	Service Cost			15692752
	Sub-Total			7751460
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		15503
	Sub-Total			7766963
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		77670
9	Insurance	1.00%		77670
10	Turnkey Charges	0.00%		0
	Total			7922302

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	12025837	7922309
Total Cost of the Estimate	12025837	7922309

Item Code No. 5751					
Replacement of 22/11 kv 5 MVA Power transformer					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	4462032.15	4462032.15
	Cost of material			Total	4462032.15

1	Erection cost on material	5.00%			223102
2	Contractor supervision charges on material	5.00%			223102
	Sub-Total				4908235
3	Contractor's Profit	5.00%			245412
	Sub-Total				5153647
4	Transportation on material	4.00%			178481
5	T&P on material cost	1.00%			44620
6	Contingencies on material	2.00%			89241
	Service Cost				11065840
	Sub-Total				5465989
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			10932
	Sub-Total				5476921
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			54769
9	Insurance	1.00%			54769
10	Turnkey Charges	0.00%			0
	Total				5586460

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	8480092	5586464
Total Cost of the Estimate	8480092	5586464

Item Code No. 5752					
Replacement of 22/11 kv 5 MVA Power transformer					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	6439026.15	6439026.15
	Cost of material			Total	6439026.15

1	Erection cost on material	5.00%			321951
2	Contractor supervision charges on material	5.00%			321951
	Sub-Total				7082929
3	Contractor's Profit	5.00%			354146
	Sub-Total				7437075
4	Transportation on material	4.00%			257561
5	T&P on material cost	1.00%			64390
6	Contingencies on material	2.00%			128781
	Service Cost				15968785
	Sub-Total				7887807
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			15776
	Sub-Total				7903583
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			79036
9	Insurance	1.00%			79036
10	Turnkey Charges	0.00%			0
	Total				8061654

Particulars	DPR Amount	Tender/ Estimate Amount
		90.05%
Cost with overheads on Material	12237369	8061661
Total Cost of the Estimate	12237369	8061661

Item Code No. 5802A					
Replacement of DB's for 25/63 KVA Distribution transformer with Kitkat DB					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	L.T.Dist.Boxes 25/63 KVA with KITKAT	No	1	12960.00	12960.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	71.75	358.75
3	Earthing with GI pipe	LS	1	392.85	392.85
4	Sundries	LS	1	885.50	885.50
5	MS angle 50x50x6 mm	Kg	20.00	69.93	1398.60
Cost of Material					15995.70

1	Erection cost on material	15.00%			2399
2	Contractor supervision charges on material	5.00%			800
Sub-Total					19195
3	Contractor's Profit	5.00%			960
Sub-Total					20155
4	Transportation on material	4.00%			640
5	T&P on material cost	1.00%			160
6	Contingencies on material	2.00%			320
Service Cost					44628
Sub-Total					21274
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			43
Sub-Total					21317
Labour Cess (on Total Works Cost instead of only Material Cost)					
8		1.00%			213
9	Insurance	1.00%			213
10	Turnkey Charges	0.00%			0
Total					21743

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	32905	21743
Total Cost of the Estimate	32905	21743

Item Code No. 5802B					
Replacement of DB's for 100 KVA Distribution transformer with Kitkat DB					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14200.80	14200.80
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	71.75	358.75
3	Earthing with GI pipe	LS	1	392.85	392.85
4	Sundries	LS	1	885.50	885.50
5	MS angle 50x50x6 mm	Kg	20.00	69.93	1398.60
Cost of Material					17236.50

1	Erection cost on material	15.00%			2585
2	Contractor supervision charges on material	5.00%			862
Sub-Total					20684
3	Contractor's Profit	5.00%			1034
Sub-Total					21718
4	Transportation on material	4.00%			689
5	T&P on material cost	1.00%			172
6	Contingencies on material	2.00%			345
Service Cost					48090
Sub-Total					22925
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			46
Sub-Total					22970
Labour Cess (on Total Works Cost instead of only Material Cost)					
8		1.00%			230
9	Insurance	1.00%			230
10	Turnkey Charges	0.00%			0
Total					23430

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	35457	23430
Total Cost of the Estimate	35457	23430

Replacement of DB's for 200 KVA Distribution transformer with Kitkat DB

Sr.No	Description	Unit	Qty.	Rate	Amount
1	L.T.Dist.Boxes 200 KVA with KitKat	No	1	28080.00	28080.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	71.75	358.75
3	Earthing with GI pipe	LS	1	392.85	392.85
4	Sundries	LS	1	885.50	885.50
5	MS angle 50x50x6 mm	Kg	20.00	69.93	1398.60
Cost of Material					31115.70

1	Erection cost on material	15.00%	4667
2	Contractor supervision charges on material	5.00%	1556
Sub-Total			37339
3	Contractor's Profit	5.00%	1867
Sub-Total			39206
4	Transportation on material	4.00%	1245
5	T&P on material cost	1.00%	311
6	Contingencies on material	2.00%	622
Service Cost			86813
Sub-Total			41384
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	83
Sub-Total			41467
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	415
9	Insurance	1.00%	415
10	Turnkey Charges	0.00%	0
Total			42296

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	64008	42296
Total Cost of the Estimate	64008	42296

Item Code No. 5804					
Replacement of DB's for 315 KVA Distribution transformer with 6 way feeder pillar with ACB					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	6 way feeder pillar with ACB	No	1	74355.60	74355.60
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	71.75	358.75
3	Earthing with GI pipe	LS	1	392.85	392.85
4	Sundries	LS	1	885.50	885.50
5	MS angle 50x50x6 mm	Kg	20.00	69.93	1398.60
Cost of Material					77391.30

1	Erection cost on material	15.00%		11609
2	Contractor supervision charges on material	5.00%		3870
Sub-Total				
3	Contractor's Profit	5.00%		4643
Sub-Total				
4	Transportation on material	4.00%		3096
5	T&P on material cost	1.00%		774
6	Contingencies on material	2.00%		1548
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		206
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		1031
9	Insurance	1.00%		1031
10	Turnkey Charges	0.00%		0

Total		
Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	159202	105198
Total Cost of the Estimate	159202	105198

Item Code No. 5805					
Replacement of LT C.T. Operated Electronic Meter 100/5A with Communication Port RS-232.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	100/5A CT Operated Meter	No.	1.00	5352.07	5352.07
	Cost of Material				5352.07
1	Erection cost on material		15.00%		803
2	Contractor supervision charges on material		5.00%		268
	Sub-Total				6422
3	Contractor's Profit		5.00%		321
	Sub-Total				6744
4	Transportation on material		4.00%		214
5	T&P on material cost		1.00%		54
6	Contingencies on material		2.00%		107
	Service Cost				14932
	Sub-Total				7118
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		14
	Sub-Total				7132
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		71
9	Insurance		1.00%		71
10	Turnkey Charges		0.00%		0
	Total				7275
	Particulars	DPR Amount	Tender/ Estimate Amount		
		105.71%	35.930%		
	Cost with overheads on Material	11010	7275		
	Total Cost of the Estimate	11010	7275		

Item Code No. 5806					
Replacement of DB's for 63/100 KVA Distribution transformer with MCCB DB					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	71.75	358.75
3	Earthing with GI pipe	LS	1	392.85	392.85
4	Sundries	LS	1	885.50	885.50
5	MS angle 50x50x6 mm	Kg	20.00	69.93	1398.60
Cost of Material					18422.10

1	Erection cost on material	15.00%			2763
2	Contractor supervision charges on material	5.00%			921
Sub-Total					22107
3	Contractor's Profit	5.00%			1105
Sub-Total					23212
4	Transportation on material	4.00%			737
5	T&P on material cost	1.00%			184
6	Contingencies on material	2.00%			368
Service Cost					51398
Sub-Total					24501
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			49
Sub-Total					24550
Labour Cess (on Total Works Cost instead of only Material Cost)					
8		1.00%			246
9	Insurance	1.00%			246
10	Turnkey Charges	0.00%			0
Total					25041

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	37896	25041
Total Cost of the Estimate	37896	25041

Item Code No. 5807					
Replacement of DB's for 200 KVA Distribution transformer with MCCB DB					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	L.T.Dist.Boxes 200 KVA with MCCB	No	1	27244.80	27244.80
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	71.75	358.75
3	Earthing with GI pipe	LS	1	392.85	392.85
4	Sundries	LS	1	885.50	885.50
5	MS angle 50x50x6 mm	Kg	20.00	69.93	1398.60
Cost of Material					30280.50

1	Erection cost on material	15.00%			4542
2	Contractor supervision charges on material	5.00%			1514
Sub-Total					36337
3	Contractor's Profit	5.00%			1817
Sub-Total					38153
4	Transportation on material	4.00%			1211
5	T&P on material cost	1.00%			303
6	Contingencies on material	2.00%			606
Service Cost					84483
Sub-Total					40273
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			81
Sub-Total					40354
Labour Cess (on Total Works Cost instead of only Material Cost)					
8		1.00%			404
9	Insurance	1.00%			404
10	Turnkey Charges	0.00%			0
Total					41161

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	62290	41160
Total Cost of the Estimate	62290	41160

Item Code No. 5808					
Replacement of DB's for 315 KVA Distribution transformer with 6 way feeder pillar with ACB					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	6 way feeder pillar with ACB	No	1	74355.60	74355.60
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	71.75	358.75
3	Earthing with GI pipe	LS	1	392.85	392.85
4	Sundries	LS	1	885.50	885.50
5	MS angle 50x50x6 mm	Kg	20.00	69.93	1398.60
Cost of Material					77391.30

1	Erection cost on material	15.00%			11609
2	Contractor supervision charges on material	5.00%			3870
Sub-Total					92870
3	Contractor's Profit	5.00%			4643
Sub-Total					97513
4	Transportation on material	4.00%			3096
5	T&P on material cost	1.00%			774
6	Contingencies on material	2.00%			1548
Service Cost					215922
Sub-Total					102930
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			206
Sub-Total					103136
Labour Cess (on Total Works Cost instead of only Material Cost)					
8		1.00%			1031
9	Insurance	1.00%			1031
10	Turnkey Charges	0.00%			0

Total		
Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	159202	105198
Total Cost of the Estimate	159202	105198

Replacement of 11 kV Pin Insulator with pin

Sr.No	Description	Unit	Qty.	Rate	Amount
1	11 kV Pin Insulators with G.I. Pins	No.	1.00	108.66	108.66
	Cost of Material				108.66
1	Erection cost on material		15.00%		16
2	Contractor supervision charges on material		5.00%		5
	Sub-Total				137
3	Contractor's Profit		5.00%		7
	Sub-Total				137
4	Transportation on material		4.00%		4
5	T&P on material cost		1.00%		1
6	Contingencies on material		2.00%		2
	Service Cost				303
	Sub-Total				145
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		0
	Sub-Total				145
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		1
9	Insurance		1.00%		1
10	Turnkey Charges		0.00%		0
	Total				148

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	224	148
Total Cost of the Estimate	224	148

Item Code No. 5817					
Replacement of 22 kV Pin Insulators with G.I. Pins					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	22 kV Pin Insulators with G.I. Pins	No.	1.00	386.40	386.40
	Cost of Material				386.40
1	Erection cost on material		15.00%		58
2	Contractor supervision charges on material		5.00%		19
	Sub-Total				464
3	Contractor's Profit		5.00%		23
	Sub-Total				487
4	Transportation on material		4.00%		15
5	T&P on material cost		1.00%		4
6	Contingencies on material		2.00%		8
	Service Cost				1078
	Sub-Total				514
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		1
	Sub-Total				515
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		5
9	Insurance		1.00%		5
10	Turnkey Charges		0.00%		0
	Total				525
	Particulars	DPR Amount	Tender/ Estimate Amount		
		105.71%	35.930%		
	Cost with overheads on Material	795	525		
	Total Cost of the Estimate	795	525		

Item Code No. 5818					
Replacement of 33 kV Pin Insulator with pin					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	33 kV Pin Insulators with G.I. Pins	No.	1.00	462.50	462.50
	Cost of Material				462.50
1	Erection cost on material		15.00%		69
2	Contractor supervision charges on material		5.00%		23
	Sub-Total				555
3	Contractor's Profit		5.00%		28
	Sub-Total				583
4	Transportation on material		4.00%		19
5	T&P on material cost		1.00%		5
6	Contingencies on material		2.00%		9
	Service Cost				1290
	Sub-Total				615
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		1
	Sub-Total				616
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		6
9	Insurance		1.00%		6
10	Turnkey Charges		0.00%		0
	Total				629

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	951	629
Total Cost of the Estimate	951	629

Item Code No. 5819					
Replacement of 11 kV Disc Insulator					
Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Disc Insulator 11 KV 70 KN	No	1	310.01	310.01
	Cost of material				310.01

1	Erection cost on material	15.00%			47
2	Contractor supervision charges on material	5.00%			16
	Sub-Total				372
3	Contractor's Profit	5.00%			19
	Sub-Total				391
4	Transportation on material	4.00%			12
5	T&P on material cost	1.00%			3
6	Contingencies on material	2.00%			6
	Service Cost				865
	Sub-Total				412
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			1
	Sub-Total				413
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			4
9	Insurance	1.00%			4
10	Turnkey Charges	0.00%			0

Total 421

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	638	421
Total Cost of the Estimate	638	421

Item Code No. 5901					
Replacement of RSJ pole with required Accessories 100 X 116, 11 Mt					
Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	RSJ 116x100, 11 m long	No.	1	15269.85	15269.85
2	M.S. Flats(50 X 10mm)	Kg	7.0	65.48	458.33
3	MS Channel 100x50x6 mm	Kg	33	69.93	2307.69
4	MS angle 50x50x6 mm	Kg	14	69.93	979.02
5	22 kV Pin Insulators with G.I. Pins	No	3	386.40	1159.20
6	H.T.Stay Set	Set	1	807.30	807.30
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	71.81	574.50
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	71.75	215.25
9	Danger Board in yard.	No	1	57.50	57.50
10	Earthing Sets H.T	Set	1	461.70	461.70
11	G.I.Barbed Wire 'A' type.	Kg.	5.000	80.34	401.69
12	Sundries	LS	1	885.50	885.50
12	Concreting ration 1:3:6	Cmt.	0.5	3935.10	1967.55
Cost of material					25545.07

1	Erection cost on material	15.00%	3832
2	Contractor supervision charges on material	5.00%	1277
Sub-Total			
3	Contractor's Profit	5.00%	1533
Sub-Total			
4	Transportation on material	4.00%	1022
5	T&P on material cost	1.00%	255
6	Contigencies on material	2.00%	511
Service Cost			
Sub-Total			
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	68
Sub-Total			
34043			
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	340
9	Insurance	1.00%	340
10	Turnkey Charges	0.00%	0

Particulars	Total	
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	52549	34723
Total Cost of the Estimate	52549	34723

Item Code No. 5903					
Replacement of RSJ pole with required Accessories 100 X 116, 10 Mt					
Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	RSJ 116x100, 10 m long	No.	1	13882.05	13882.05
2	M.S. Flats(50 X 10mm)	Kg	7.0	65.48	458.33
3	MS Channel 100x50x6 mm	Kg	33	69.93	2307.69
4	MS angle 50x50x6 mm	Kg	14	69.93	979.02
5	22 kV Pin Insulators with G.I. Pins	No	3	386.40	1159.20
6	H.T.Stay Set	Set	1	807.30	807.30
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	71.81	574.50
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	71.75	215.25
9	Danger Board in yard.	No	1	57.50	57.50
10	Earthing Sets H.T	Set	1	461.70	461.70
11	G.I.Barbed Wire 'A' type.	Kg.	5.000	80.34	401.69
12	Sundries	LS	1	885.50	885.50
12	Concreting ration 1:3:6	Cmt.	0.5	3935.10	1967.55
Cost of material					24157.27

1	Erection cost on material	15.00%	3624	
2	Contractor supervision charges on material	5.00%	1208	
Sub-Total				28989
3	Contractor's Profit	5.00%	1449	
Sub-Total				30438
4	Transportation on material	4.00%	966	
5	T&P on material cost	1.00%	242	
6	Contigencies on material	2.00%	483	
Service Cost				67399
Sub-Total				32129
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	64	
Sub-Total				32193
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	322	
9	Insurance	1.00%	322	
10	Turnkey Charges	0.00%	0	

Total **32837**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	49694	32837
Total Cost of the Estimate	49694	32837

Item Code No. 5904					
Replacement of RSJ pole 152 X 152, 13 Mt					
Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	RSJ 152x152, 13 m long	No.	1	29108.70	29108.70
2	MS Channel 100x50x6 mm	Kg.	33	69.93	2307.69
3	G.I.Angle 50x50x6mm	Kg.	14	94.61	1324.51
4	G.I Flat 50x10 mm	Kg.	7	90.15	631.07
5	33 kV Pin Insulators with G.I. Pins	No.	3	462.50	1387.50
6	Earthing Sets H.T	Set	1	461.70	461.70
7	H.T.Stay Set	Set	1	807.30	807.30
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	71.81	574.50
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
10	G.I.Nut Bolts	Kg.	1	111.92	111.92
11	Sundries	LS	1	885.50	885.50
12	Concreting ration 1:3:6	Cmt.	0.5	3935.10	1967.55
Cost of material					37743.89

1	Erection cost on material	15.00%	5662
2	Contractor supervision charges on material	5.00%	1887
Sub-Total			45293
3	Contractor's Profit	5.00%	2265
Sub-Total			47557
4	Transportation on material	4.00%	1510
5	T&P on material cost	1.00%	377
6	Contingencies on material	2.00%	755
Service Cost			105305
Sub-Total			50199
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	100
Sub-Total			50300
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	503
9	Insurance	1.00%	503
10	Turnkey Charges	0.00%	0

Particulars	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	77643	51305
Total Cost of the Estimate	77643	51305

Item Code No. 5905					
Replacement of RSJ pole 152 X 152, 11 Mt					
Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	RSJ 152x152, 11 m long	No.	1	24630.75	24630.75
2	MS Channel 100x50x6 mm	Kg.	33	69.93	2307.69
3	G.I.Angle 50x50x6mm	Kg.	14	94.61	1324.51
4	G.I Flat 50x10 mm	Kg.	7	90.15	631.07
5	33 kV Pin Insulators with G.I. Pins	No.	3	462.50	1387.50
6	Earthing Sets H.T	Set	1	461.70	461.70
7	H.T.Stay Set	Set	1	807.30	807.30
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	71.81	574.50
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
10	G.I.Nut Bolts	Kg.	1	111.92	111.92
11	Sundries	LS	1	885.50	885.50
12	Concreting ration 1:3:6	Cmt.	0.5	3935.10	1967.55
Cost of material					35233.49

1	Erection cost on material	15.00%	5285
2	Contractor supervision charges on material	5.00%	1762
Sub-Total			42280
3	Contractor's Profit	5.00%	2114
Sub-Total			44394
4	Transportation on material	4.00%	1409
5	T&P on material cost	1.00%	352
6	Contingencies on material	2.00%	705
Service Cost			98301
Sub-Total			46861
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	94
Sub-Total			46954
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	470
9	Insurance	1.00%	470
10	Turnkey Charges	0.00%	0

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	72479	47893
Total Cost of the Estimate	72479	47893

Item Code No. 5906					
Replacement of HT poles RSJ 9 mtr 100 X 116 mm					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	No	1.00	12492.90	12492.90
2	M.S. Flats(50 X 10mm)	Kg	7.0	65.48	458.33
3	MS Channel 100x50x6 mm	Kg	33	69.93	2307.69
4	MS angle 50x50x6 mm	Kg	14	69.93	979.02
5	22 kV Pin Insulators with G.I. Pins	No	3	386.40	1159.20
6	H.T.Stay Set	Set	1	807.30	807.30
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	71.81	574.50
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	71.75	215.25
9	Danger Board in yard.	No	1	57.50	57.50
10	Earthing Sets H.T	Set	1	461.70	461.70
11	G.I.Barbed Wire 'A' type.	Kg.	5.000	80.34	401.69
12	Sundries	LS	1	885.50	885.50
13	Concreting ration 1:3:6	Cmt.	0.50	3935.10	1967.55
Cost of material					22768.12

1	Erection cost on material	15.00%	3415
2	Contractor supervision charges on material	5.00%	1138
Sub-Total			27322
3	Contractor's Profit	5.00%	1366
Sub-Total			28688
4	Transportation on material	4.00%	911
5	T&P on material cost	1.00%	228
6	Contigencies on material	2.00%	455
Service Cost			63523
Sub-Total			30282
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	61
Sub-Total			30342
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	303
9	Insurance	1.00%	303
10	Turnkey Charges	0.00%	0
Total			30949

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	46836	30949
Total Cost of the Estimate	46836	30949

Item Code No. 5907					
Replacement of HT poles RSJ 9 mtr 116 X 100 mm					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	No	1.00	12492.90	12492.90
2	M.S. Flats(50 X 10mm)	Kg	7.0	65.48	458.33
3	M.S.Channel 75x40x6 mm	Kg	23	69.93	1608.39
4	MS angle 50x50x6 mm	Kg	14	69.93	979.02
5	11 kV Pin Insulators with G.I. Pins	No	3	108.66	325.98
6	H.T.Stay Set	Set	1	807.30	807.30
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	71.81	574.50
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	71.75	215.25
9	Danger Board in yard.	No	1	57.50	57.50
10	Earthing Sets H.T	Set	1	461.70	461.70
11	G.I.Barbed Wire 'A' type.	Kg.	5.000	80.34	401.69
12	Sundries	LS	1	885.50	885.50
13	Concreting ration 1:3:6	Cmt.	0.50	3935.10	1967.55
Cost of material					21235.61

1	Erection cost on material	15.00%	3185
2	Contractor supervision charges on material	5.00%	1062
Sub-Total			
			25483
3	Contractor's Profit	5.00%	1274
Sub-Total			
			26757
4	Transportation on material	4.00%	849
5	T&P on material cost	1.00%	212
6	Contigencies on material	2.00%	425
Service Cost			
			59247
Sub-Total			
			28243
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	56
Sub-Total			
			28300
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	283
9	Insurance	1.00%	283
10	Turnkey Charges	0.00%	0

Particulars	Total	
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	43684	28866
Total Cost of the Estimate	43684	28866

Item Code No. 5908					
Replacement of LT poles with required accessories (125 X 70 mm X 9 M) with stay					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 125x70, 9 m long	No	1	7111.80	7111.80
2	MS angle 50x50x6 mm	Kg	5	69.93	349.65
3	MS Flat 50 X 8 mm	Kg	1.5	65.48	98.21
4	L.T.Shackle Insulator	No	4	11.50	46.00
5	L.T.Shackle hardware	Pair	4	49.95	199.80
6	Earthing Sets L.T.	Set	1	224.10	224.10
7	L.T. Stay sets	Set	1	637.20	637.20
8	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	7.000	71.81	502.69
9	Painting/Hardware & support with numbering of pole	No	1	258.75	258.75
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2.000	71.75	143.50
11	Sundries	LS	1	885.50	885.50
12	Concreting ration 1:3:6	Cmt.	0.30	3935.10	1180.53
Cost of material					11637.73

1	Erection cost on material	15.00%	1746
2	Contractor supervision charges on material	5.00%	582
Sub-Total			13965
3	Contractor's Profit	5.00%	698
Sub-Total			14664
4	Transportation on material	4.00%	466
5	T&P on material cost	1.00%	116
6	Contingencies on material	2.00%	233
Service Cost			32469
Sub-Total			15478
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	31
Sub-Total			15509
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	155
9	Insurance	1.00%	155
10	Turnkey Charges	0.00%	0
Total			15819

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	23940	15819
Total Cost of the Estimate	23940	15819

Item Code No. 5909					
Replacement of LT poles with required accessories (125 X 70 mm X 8 M) with stay					
Sr.No	Particulars	Unit	Qty.	Rate	Amount
1	RSJ 125x70, 8 m long	No	1	6322.05	6322.05
2	MS angle 50x50x6 mm	Kg	5	69.93	349.65
3	MS Flat 50 X 8 mm	Kg	1.5	65.48	98.21
4	L.T.Shackle Insulator	No	4	11.50	46.00
5	L.T.Shackle hardware	Pair	4	49.95	199.80
6	Earthing Sets L.T.	Set	1	224.10	224.10
7	L.T. Stay sets	Set	1	637.20	637.20
8	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	7.000	71.81	502.69
9	Painting/Hardware & support with numbering of pole	No	1	258.75	258.75
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2.000	71.75	143.50
11	Sundries	LS	1	885.50	885.50
12	Concreting ration 1:3:6	Cmt.	0.30	3935.10	1180.53
Cost of material					10847.98

1	Erection cost on material	15.00%	1627
2	Contractor supervision charges on material	5.00%	542
Sub-Total			13018
3	Contractor's Profit	5.00%	651
Sub-Total			13668
4	Transportation on material	4.00%	434
5	T&P on material cost	1.00%	108
6	Contingencies on material	2.00%	217
Service Cost			30266
Sub-Total			14428
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	29
Sub-Total			14457
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	145
9	Insurance	1.00%	145
10	Turnkey Charges	0.00%	0
Total			14746

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	22315	14746
Total Cost of the Estimate	22315	14746

Item Code No. 5912					
Cost data for Replacement of LT RSJ 125 x 75, 9 Mt pole					
Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	RSJ 125x70, 9 m long	No.	1	7111.80	7111.80
2	Concreting ration 1:3:6	Cmt.	0.30	3935.10	1180.53
Cost of material					7111.80
1	Erection cost on material		15.00%		1067
2	Contractor supervision charges on material		5.00%		356
Sub-Total					8534
3	Contractor's Profit		5.00%		427
Sub-Total					8961
4	Transportation on material		4.00%		284
5	T&P on material cost		1.00%		71
6	Contigencies on material		2.00%		142
Service Cost					19842
Sub-Total					9459
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		19
Sub-Total					9478
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		95
9	Insurance		1.00%		95
10	Turnkey Charges		0.00%		0
Total					9667
Particulars		DPR Amount		Tender/ Estimate Amount	
		105.71%		35.930%	
Cost with overheads on Material		14630		9667	
Total Cost of the Estimate		14630		9667	

Replacement of 1 phase meter

Item Code No. 6001					
Replacement of 1 phase meter					
Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	S.P. meter with 6LoWPAN tech. with enclosure	No.	1	813.96	813.96
	Cost of material				813.96
1	Erection cost on material		15.00%		122
2	Contractor supervision charges on material		5.00%		41
	Sub-Total				977
3	Contractor's Profit		5.00%		49
	Sub-Total				1026
4	Transportation on material		4.00%		33
5	T&P on material cost		1.00%		8
6	Contigencies on material		2.00%		16
	Service Cost				2271
	Sub-Total				1083
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		2
	Sub-Total				1085
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		11
9	Insurance		1.00%		11
10	Turnkey Charges		0.00%		0
	Total				1106
	Particulars	DPR Amount	Tender/ Estimate Amount		
		105.71%	35.930%		
	Cost with overheads on Material	1674	1106		
	Total Cost of the Estimate	1674	1106		

Replacement of 3 phase meter

Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	LTAC T.P. 10-40A IR port meter	No.	1	#N/A	#N/A
Cost of material					#N/A

1	Erection cost on material	15.00%		122
2	Contractor supervision charges on material	5.00%		41
Sub-Total				
3	Contractor's Profit	5.00%		49
Sub-Total				
				1026
4	Transportation on material	4.00%		33
5	T&P on material cost	1.00%		8
6	Contingencies on material	2.00%		16
Service Cost				
Sub-Total				
				2271
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		2
Sub-Total				
				1085
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		11
9	Insurance	1.00%		11
10	Turnkey Charges	0.00%		0
Total				
				1106

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	#N/A	#N/A
Total Cost of the Estimate	#N/A	#N/A

Replacement of CT operated meter

Sr.No	Description of Material	Unit	Qty.	Rate in Rs.	Amount
1	LTAC T.P. CT embedded 40-200 A Meter (for loads above 20kW)	No.	1	13642.71	13642.71
Cost of material					13642.71
1	Erection cost on material		15.00%		2046
2	Contractor supervision charges on material		5.00%		682
Sub-Total					16371
3	Contractor's Profit		5.00%		819
Sub-Total					17190
4	Transportation on material		4.00%		546
5	T&P on material cost		1.00%		136
6	Contingencies on material		2.00%		273
Service Cost					38063
Sub-Total					18145
7	BG Charges on 10% of the LOA amount (on Material+centage)		0.20%		36
Sub-Total					18181
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		182
9	Insurance		1.00%		182
10	Turnkey Charges		0.00%		0
Total					18545

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	28064	18545
Total Cost of the Estimate	28064	18545

Item Code No. 6106					
Replacement of Mini Pillars					
Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	L.T. Mini Feeder Pillar	No	1	10596.00	10596.00
2	Earthing with GI pipe	No	2	392.85	785.70
3	Concreting ration 1:3:6	L. S.	1	3935.10	3935.10
4	G.I.Strip (25 X 3 mm)	KG	2	90.15	180.31
5	Sundries	L. S.	1	885.50	885.50
Cost of material					16382.61
1	Erection cost on material		15.00%		2457
2	Contractor supervision charges on material		5.00%		819
Sub-Total					19659
3	Contractor's Profit		5.00%		983
Sub-Total					20642
4	Transportation on material		4.00%		655
5	T&P on material cost		1.00%		164
6	Contingencies on material		2.00%		328
Service Cost					45707
Sub-Total					21789
7	BG Charges on 10% of the LOA amount (on Material+centage		0.20%		44
Sub-Total					21832
8	Labour Cess (on Total Works Cost instead of only Material Cost)		1.00%		218
9	Insurance		1.00%		218
10	Turnkey Charges		0.00%		0
Total					22269

Particulars		
	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	33701	22269
Total Cost of the Estimate	33701	22269

Replacement of 3 Panel Ring Main Unit with 4 Panel Ring Main Unit, 11 kV

Sr.No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	11 kV SF6, Motorized, SCADA Compatible RMU 3 Iso + 1 Br	Set	1	488062.80	488062.80
2	11 kV heat shrinkable Indoor termination joint kit for 3 C X 185 sqmm	No	2	1538.00	3076.00
3	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No	1	1169.00	1169.00
4	Earthing with GI pipe	No	2	392.85	785.70
5	G.I.Strip (25 X 3 mm)	kg	2	90.15	180.31
6	Sundries such as N/B, Washers, Welding etc.	Ls	1	3162.50	3162.50
Total Cost					496436.31

1	Erection cost on material	15.00%	74465
2	Contractor supervision charges on material	5.00%	24822
Sub-Total			595724
3	Contractor's Profit	5.00%	29786
Sub-Total			625510
4	Transportation on material	4.00%	19857
5	T&P on material cost	1.00%	4964
6	Contingencies on material	2.00%	9929
Service Cost			1385057
Sub-Total			660260
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1321
Sub-Total			661581
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	6616
9	Insurance	1.00%	6616
10	Turnkey Charges	0.00%	0
Total			674812

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	1021219	674806
Total Cost of the Estimate	1021219	674806

Replacement of Ring Main Unit (SF - 6) (3 Isolators + 1 Breaker)					
Sr.No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	11 kV SF6, Motorized, SCADA Compatible RMU 3 Iso + 1 Br	Set	1	488062.80	488062.80
2	Foundation Structure for RMU for Cable Entry Etc.	No	1	26047.59	26047.59
3	Earthing to equipment with Salt ,Coke, earthing strip Etc.	No	1	14950.00	14950.00
4	Sundries such as N/B, Washers, Welding etc.	kg	1	3162.50	3162.50
Total Cost					532222.89

1	Erection cost on material	15.00%		79833
2	Contractor supervision charges on material	5.00%		26611
Sub-Total				
3	Contractor's Profit	5.00%		31933
Sub-Total				
4	Transportation on material	4.00%		21289
5	T&P on material cost	1.00%		5322
6	Contingencies on material	2.00%		10644
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		1416
Sub-Total				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		7093
9	Insurance	1.00%		7093
10	Turnkey Charges	0.00%		0
Total				
723458				

9	Foundation for RMU	LS	1	22199.57	22200
Total Cost of Estimate					745657

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1094836	723451
Foundation for RMU	22200	22200
Total Cost of the Estimate	1117035	745650

Replacement of Ring Main Unit (SF - 6) (2 Isolators + 2 Breaker)					
Sr.No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 2 Br	Set	1	591480.00	591480.00
2	Foundation Structure for RMU for Cable Entry Etc.	No	1	26047.59	26047.59
3	Earthing to equipment with Salt ,Coke, earthing strip Etc.	No	1	14950.00	14950.00
4	Sundries such as N/B, Washers, Welding etc.	kg	1	3162.50	3162.50
Total Cost					635640.09

1	Erection cost on material	15.00%		95346
2	Contractor supervision charges on material	5.00%		31782
Sub-Total				
				762768
3	Contractor's Profit	5.00%		38138
Sub-Total				
				800907
4	Transportation on material	4.00%		25426
5	T&P on material cost	1.00%		6356
6	Contingencies on material	2.00%		12713
Service Cost				
				1773436
Sub-Total				
				845401
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		1691
Sub-Total				
				847092
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		8471
9	Insurance	1.00%		8471
10	Turnkey Charges	0.00%		0
Total				
				864034

9	Foundation for RMU	LS	1	22199.57	22200
Total Cost of Estimate					886234

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1307575	864026
Foundation for RMU	22200	22200
Total Cost of the Estimate	1329775	886225

Replacement of Indoor Ring Main Unit (SF - 6) (3 Isolators + 2 Breaker) 22 kV					
Sr.No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	22 kV SF6, Motorized, SCADA Compatible RMU 3 Iso + 2 Br	Set	1	800975.00	800975.00
2	Foundation Structure for RMU for Cable Entry Etc.	No	1	26047.59	26047.59
3	Earthing to equipment with Salt ,Coke, earthing strip Etc.	No	1	14950.00	14950.00
4	Sundries such as N/B, Washers, Welding etc.	kg	1	3162.50	3162.50
Total Cost					845135.09

1	Erection cost on material	15.00%		126770
2	Contractor supervision charges on material	5.00%		42257
Sub-Total				
				1014162
3	Contractor's Profit	5.00%		50708
Sub-Total				
				1064870
4	Transportation on material	4.00%		33805
5	T&P on material cost	1.00%		8451
6	Contingencies on material	2.00%		16903
Service Cost				
				2357927
Sub-Total				
				1124030
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		2248
Sub-Total				
				1126278
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		11263
9	Insurance	1.00%		11263
10	Turnkey Charges	0.00%		0
Total				
				1148803

9	Foundation for RMU	LS	1	22199.57	22200
Total Cost of Estimate					1171003

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	1738527	1148792
Foundation for RMU	22200	22200
Total Cost of the Estimate	1760727	1170992

Item Code No. 6701					
11KV A.B. Switch, 400 A					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
2	M.S. Flats(50 X 10mm)	Kg	25	65.48	1636.88
3	M.S.Channel 75x40x6 mm	Kg	43	69.93	2979.02
4	Sundries	LS	1	885.50	885.50
Cost of Material					16589.39

1	Erection cost on material	15.00%		2488
2	Contractor supervision charges on material	5.00%		829
Sub-Total				
3	Contractor's Profit	5.00%		995
Sub-Total				
4	Transportation on material	4.00%		664
5	T&P on material cost	1.00%		166
6	Contingencies on material	2.00%		332
Service Cost				
Sub-Total				
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%		44
Sub-Total				
22108				
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%		221
9	Insurance	1.00%		221
10	Turnkey Charges	0.00%		0
Total				
22550				

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	34126	22550
Total Cost of the Estimate	34126	22550

Item Code No. 6723

11 kV A.B. Switch 400 Amp with DP structure.

Sr.No	Description of Material	Unit	Qty.	Rate	Amount
1	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
2	MS Channel 100x50x6 mm	Kg	51	69.93	3538.46
3	M.S.Channel 75x40x6 mm	Kg	32	69.93	2237.76
4	H.T.Stay Set	Set	4	807.30	3229.20
5	Strain Hardware forWeasel/Squirrel	Set	10	205.16	2051.60
6	Disc Insulator 11 KV 70 KN	No	6	310.01	1860.08
7	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
8	Sundries	LS	1	885.50	885.50
9	Concreting ration 1:3:6	LS	2	3935.10	7870.20
Cost of Material					57746.59

1	Erection cost on material	15.00%	8662
2	Contractor supervision charges on material	5.00%	2887
Sub-Total			69296
3	Contractor's Profit	5.00%	3465
Sub-Total			72761
4	Transportation on material	4.00%	2310
5	T&P on material cost	1.00%	577
6	Contingencies on material	2.00%	1155
Service Cost			161113
Sub-Total			76803
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	154
Sub-Total			76957
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	770
9	Insurance	1.00%	770
10	Turnkey Charges	0.00%	0

Total **78496**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	118791	78495
Total Cost of the Estimate	118791	78495

Item Code No. 6724					
22 kV A.B. Switch with RSJ pole 110 X 116, 9 mtr DP with allied fabrications.					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	22KV A.B.Switch, 400 A	Set	1	17336.40	17336.40
2	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
3	M.S.Channel 75x40x6 mm	Kg	55	69.93	3846.15
4	M.S. Flats(50 X 10mm)	Kg	10	65.48	654.75
5	Disc Insulator 11 KV 45 KN	No	12	280.60	3367.20
6	Strain Hardware forWeasel/Squirrel	Set	6	205.16	1230.96
7	H.T.Stay Set	Set	4	807.30	3229.20
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	32.000	71.81	2298.00
9	Earthing Sets H.T	Set	2	461.70	923.40
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	10.00	71.75	717.50
11	Sundries	LS	1	885.50	885.50
12	Concreting ration 1:3:6	LS	2	3935.10	7870.20
Cost of Material					67345.06

1	Erection cost on material	15.00%	10102
2	Contractor supervision charges on material	5.00%	3367
Sub-Total			80814
3	Contractor's Profit	5.00%	4041
Sub-Total			84855
4	Transportation on material	4.00%	2694
5	T&P on material cost	1.00%	673
6	Contingencies on material	2.00%	1347
Service Cost			187893
Sub-Total			89569
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	179
Sub-Total			89748
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	897
9	Insurance	1.00%	897
10	Turnkey Charges	0.00%	0
Total			91543

Particulars	DPR Amount	Tender/ Estimate Amount
	Cost with overheads on Material	138536
Total Cost of the Estimate	138536	91542

Supply & replacement of of 11 kV V-cross arms & Top pin supports

Sr.No	Description	Unit	Qty.	Rate	Amount
1	11 KV V cross arm with clamp	No	1	862.65	862.65
2	11 KV Top fitting with clamp	No	1	122.85	122.85
5	Sundries	LS	1	885.50	885.50
Cost of Material					1871.00

1	Erection cost on material	15.00%	281
2	Contractor supervision charges on material	5.00%	94
Sub-Total			2245
3	Contractor's Profit	5.00%	112
Sub-Total			2357
4	Transportation on material	4.00%	75
5	T&P on material cost	1.00%	19
6	Contingencies on material	2.00%	37
Service Cost			5220
Sub-Total			2488
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	5
Sub-Total			2493
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	25
9	Insurance	1.00%	25
10	Turnkey Charges	0.00%	0

Total **2543**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	3849	2543
Total Cost of the Estimate	3849	2543

Supply & replacement of of 22 kV V-cross arms & Top pin supports

Sr.No	Description	Unit	Qty.	Rate	Amount
1	22 KV V cross arm with clamp	No	1	1223.10	1223.10
2	22 KV Top Fitting	No	1	515.70	515.70
5	Sundries	LS	1	885.50	885.50
Cost of Material					2624.30

1	Erection cost on material	15.00%	394
2	Contractor supervision charges on material	5.00%	131
Sub-Total			3149
3	Contractor's Profit	5.00%	157
Sub-Total			3307
4	Transportation on material	4.00%	105
5	T&P on material cost	1.00%	26
6	Contingencies on material	2.00%	52
Service Cost			7322
Sub-Total			3490
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	7
Sub-Total			3497
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	35
9	Insurance	1.00%	35
10	Turnkey Charges	0.00%	0

Total **3567**

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	5398	3567
Total Cost of the Estimate	5398	3567

Item Code No. 6727					
Supply & replacement of of 33 kV V-cross arms & Top pin supports					
Sr.No	Description	Unit	Qty.	Rate	Amount
1	33 KV V Cross Arms	No	1	1223.10	1223.10
2	33 KV Top Fitting	No	1	515.70	515.70
5	Sundries	LS	1	885.50	885.50
Cost of Material					2624.30

1	Erection cost on material	15.00%			394
2	Contractor supervision charges on material	5.00%			131
Sub-Total					3149
3	Contractor's Profit	5.00%			157
Sub-Total					3307
4	Transportation on material	4.00%			105
5	T&P on material cost	1.00%			26
6	Contingencies on material	2.00%			52
Service Cost					7322
Sub-Total					3490
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%			7
Sub-Total					3497
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%			35
9	Insurance	1.00%			35
10	Turnkey Charges	0.00%			0

Total **3567**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	5398	3567
Total Cost of the Estimate	5398	3567

DP structure & reinstalment of existing 22/0.4 or 11/0.4 kV Distribution transformer on RSJ pole 100 X 116, 9 mtr with Kit Kat DB

Sr.No	Description	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	No	2	12492.90	24985.80
2	MS Channel 100x50x6 mm	Kg	100	69.93	6993.00
3	M.S.Channel 75x40x6 mm	Kg	44	69.93	3076.92
4	MS angle 50x50x6 mm	Kg	22	69.93	1538.46
5	M.S.Flat 50 x 6 mm	Kg	24	65.48	1571.40
6	22 kV Pin Insulators with G.I. Pins	No	3	386.40	1159.20
7	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14200.80	14200.80
8	L.A.s 22KV (Gapless type) with disconnecter	Set	1	2622.00	2622.00
9	H.T.Stay Set	Set	4	807.30	3229.20
10	Earthing Sets H.T	Set	5	461.70	2308.50
11	22KV H.G.Fuses	Set	1	5360.40	5360.40
12	22KV A.B.Switch, 400 A	Set	1	17336.40	17336.40
13	Danger Board in yard.	No	2	57.50	115.00
14	Painting/Hardware & support with numbering of pole	LS	1	258.75	258.75
15	Sundries	LS	1	885.50	885.50
16	Concreting ration 1:3:6	LS	2	3935.10	7870.20
Cost of Material					85641.33

1	Erection cost on material	15.00%	12846
2	Contractor supervision charges on material	5.00%	4282
Sub-Total			102770
3	Contractor's Profit	5.00%	5138
Sub-Total			107908
4	Transportation on material	4.00%	3426
5	T&P on material cost	1.00%	856
6	Contingencies on material	2.00%	1713
Service Cost			238939
Sub-Total			113903
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	228
Sub-Total			114131
Labour Cess (on Total Works Cost instead of only Material Cost)			
8		1.00%	1141
9	Insurance	1.00%	1141
10	Turnkey Charges	0.00%	0

Total **116413**

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	176173	116412
Total Cost of the Estimate	176173	116412

Rerouting of 22 KV Tower line with Narrow Based Towers

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
I)	Erection of 25 nos of towers in place of old rusted towers with pile foundation and caps and reconductoring with 232 sqmm AAAC conductor this includes the cost of tower material	No	25	710694.00	17767350.00
II)					
1	Disc Insulator 11 KV 70 KN	No	1600	310.01	496020.48
2	AAAC 232 mm ²	Km	14	159.25	2229.50
3	Strain Hardware for AAAC232 sq.mm.	No	315	692.94	218277.36
4	0.2 ACSR or equivalent AAAC Loop Connector	No	615	943.00	579945.00
5	Suspension Hardware for 0.2 ACSR or equivalent AAAC	No	45	389.72	17537.56
6	Sundries Nutbolts, Binding Tapes wire etc.	L.S.	1	20700.00	20700.00
	Cost of material				19102059.90

1	Erection cost on material	15.00%	2865309
2	Contractor supervision charges on material	5.00%	955103
	Sub-Total		22922472
3	Contractor's Profit	5.00%	1146124
	Sub-Total		24068595
4	Transportation on material	4.00%	764082
5	T&P on material cost	1.00%	191021
6	Contingencies on material	2.00%	382041
	Service Cost		53294747
	Sub-Total		25405740
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	50811
	Sub-Total		25456551
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	254566
9	Insurance	1.00%	254566
10	Turnkey Charges	0.00%	0
	Total		25965682

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	39294847	25965430
Total Cost of the Estimate	39294847	25965430

Replacement of Electromagnetic Relay by Static/Numerical Relays

Sr. No.	Particulars	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	30 Volt Non directional type Electronic Static relay (Numeric Relay)	No	1	NA	#VALUE!
	Cost of material				#VALUE!
1	Erection cost on material			15.00%	#VALUE!
2	Contractor supervision charges on material			5.00%	#VALUE!
	Sub-Total				#VALUE!
3	Contractor's Profit			5.00%	#VALUE!
	Sub-Total				#VALUE!
4	Transportation on material			4.00%	#VALUE!
5	T&P on material cost			1.00%	#VALUE!
6	Contingencies on material			2.00%	#VALUE!
	Service Cost				#VALUE!
	Sub-Total				#VALUE!
7	BG Charges on 10% of the LOA amount (on Material+centage)			0.20%	#VALUE!
	Sub-Total				#VALUE!
8	Labour Cess (on Total Works Cost instead of only Material Cost)			1.00%	#VALUE!
9	Insurance			1.00%	#VALUE!
10	Turnkey Charges			0.00%	#VALUE!
	Total				#VALUE!
	Particulars	DPR Amount	Tender/ Estimate Amount		
		105.71%	35.930%		
	Cost with overheads on Material	#VALUE!	#VALUE!		
	Total Cost of the Estimate	#VALUE!	#VALUE!		

Item Code No. 7001					
GIS 33/11 KV 1 x 5 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 33/11 KV, 1 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1518000.00	1518000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1911555.60	1911555.60
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	2136.51	427302.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
8	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
9	33 KV Post Insulator	Nos	6	600.83	3604.99
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	1011999.60	1011999.60
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	3	955777.20	2867331.60
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1310999.60	
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1468.62	2937200.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
16	Earthing complete as per Sheet no.2	Set	2	297483.00	594966.00
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	351439.91	702879.83
18	11 kV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
19	Clamps and Connectors as per Sheet no.5	No.	1	289026.92	289026.92
20	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
21	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
22	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	251606.30	251606.30
Cost of material					21231788.68

1	Erection cost on material	5.00%	1061589
2	Contractor supervision charges on material	5.00%	1061589
Sub-Total			23354968
3	Contractor's Profit	5.00%	1167748
Sub-Total			24522716
4	Transportation on material	4.00%	849272
5	T&P on material cost	1.00%	212318
6	Contingencies on material	2.00%	424636
Service Cost			52654836
Sub-Total			26008941
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	52018
Sub-Total			26060959
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	260610
9	Insurance	1.00%	260610
10	Turnkey Charges	0.00%	0
Total			26582178
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			32626535

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	40351014	26582199
Civil Works As per Sheet 'C'	7704191	6044357
Total Cost of the Estimate	48055206	32626557

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	351439.91

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	289026.92

Sheet
No.7

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	73671.00	
2	Control room (As per table B) GIS	3809684.07	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitary Water supply	0.00	
5	Electrification (Lumsum)	130000.00	
6	WBM Road (As per table D) GIS	102277.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00	
8	Metal Spreading (As per table F) GIS	66658.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96	
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00	
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20	
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59	
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00	
15	Construction of retaining wall. (As per table K) GIS	714839.45	
16	Rain Water Harvesting (As per Table L) Indoor	73475.01	
17	Culvert (As per Table N) Indoor if required	179692.50	
	Total=	6044357.29	

Item Code No. 7002					
GIS 33/11 KV 1 x 5 MVA (for other Cities)					
Cost data for 33/11 KV, 1 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 5 MVA	No	1	4054683.15	4054683.15
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1518000.00	1518000.00
4	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	2136.51	427302.00
5	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
6	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
7	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
8	33 KV Post Insulator	Nos	6	600.83	3604.99
9	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
10	11kV ID switchgear (1 I/c+1 B/c+4O/G)	No	1	1958473.00	1958473.00
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1468.62	440586.00
12	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	4	1662.00	6648.00
	Clamps and Connectors as per Sheet no.4	Mtr.	1	314267.40	314267.40
14	S/S Yard lighting as per Sheet no.5	No.	1	247869.50	247869.50
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	248538.65	248538.65
17	Control cables for S/S as per Sheet no.7	No.	1	109806.49	109806.49
18	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					13456395.67

1	Erection cost on material	5.00%	672820
2	Contractor supervision charges on material	5.00%	672820
	Sub-Total		14802035
3	Contractor's Profit	5.00%	740102
	Sub-Total		15542137
4	Transportation on material	4.00%	538256
5	T&P on material cost	1.00%	134564
6	Contingencies on material	2.00%	269128
	Service Cost		33371861
	Sub-Total		16484085
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	32968
	Sub-Total		16517053
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	165171
9	Insurance	1.00%	165171
10	Turnkey Charges	0.00%	0
	Total		16847394
9	Civil Works As per Sheet 'C'	No.	1
	Total Cost of Estimate		6044357
			22891751

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	25573880	16847407
Civil Works As per Sheet 'C'	7704191	6044357
Total Cost of the Estimate	33278071	22891765

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S					
Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
Total:					263209.50

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	90.15	135229.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	3162.50	3162.50
Total:					336777.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
Total:					64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
Total:					314267.40

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cum	6	255.30	1531.80
8	Sundries	L.S.	1	885.50	885.50
Total:					247869.50

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 33/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6044357.29

Item Code No. 7003					
GIS 33/11 KV 2 x 5 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 33/11 KV, 2 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 5 MVA	No	2	4054683.15	8109366.30
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1518000.00	3036000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1911555.60	1911555.60
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	2136.51	427302.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
8	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
9	33 KV Post Insulator	Nos	6	600.83	3604.99
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	1011999.60	2023999.20
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	6	955777.20	5734663.20
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1310999.60	1310999.60
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1468.62	2937240.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
17	Earthing complete as per Sheet no.2	Set	2	297483.00	594966.00
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	351439.91	702879.83
19	11 kV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
20	Clamps and Connectors as per Sheet no.5	No.	1	289026.92	289026.92
21	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
22	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
23	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	251606.30	251606.30
Cost of material					31994802.64

1	Erection cost on material	5.00%	1599740
2	Contractor supervision charges on material	5.00%	1599740
Sub-Total			35194283
3	Contractor's Profit	5.00%	1759714
Sub-Total			36953997
4	Transportation on material	4.00%	1279792
5	T&P on material cost	1.00%	319948
6	Contingencies on material	2.00%	639896
Service Cost			79347111
Sub-Total			39193633
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	78387
Sub-Total			39272020
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	392720
9	Insurance	1.00%	392720
10	Turnkey Charges	0.00%	0
Total			40057461
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			6156533
			46213994

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	60806122	40057493
Civil Works As per Sheet 'C'	7847172	6156533
Total Cost of the Estimate	68653294	46214026

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	351439.91

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	289026.92

Sheet
No.7

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	1	885.50	885.50
				Total:	253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	LS	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	73671.00	
2	Control room (As per table B) GIS	3809684.07	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitary Water supply	0.00	
5	Electrification (Lumsum)	130000.00	
6	WBM Road (As per table D) GIS	102277.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00	
8	Metal Spreading (As per table F) GIS	66658.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96	
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96	
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00	
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20	
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59	
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00	
15	Construction of retaining wall. (As per table K) GIS	714839.45	
16	Rain Water Harvesting (As per Table L) Indoor	73475.01	
17	Culvert (As per Table N) Indoor if required	179692.50	
	Total=	6156533.25	

Item Code No. 7004					
GIS 33/11 KV 2 x 5 MVA (Other Cities)					
Cost data for 33/11 KV, 2 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 5 MVA	No	2	4054683.15	8109366.30
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1518000.00	3036000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1911555.60	1911555.60
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	2136.51	427302.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
8	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
9	33 KV Post Insulator	Nos	6	600.83	3604.99
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1958473.00	1958473.00
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1468.62	881172.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1662.00	13296.00
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	314267.40	314267.40
15	S/S Yard lighting as per Sheet no.5	No.	1	247869.50	247869.50
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	248538.65	248538.65
18	Control cables for S/S as per Sheet no.7	No.	1	109806.49	109806.49
19	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					21387868.42

1	Erection cost on material	5.00%	1069393
2	Contractor supervision charges on material	5.00%	1069393
Sub-Total			23526655
3	Contractor's Profit	5.00%	1176333
Sub-Total			24702988
4	Transportation on material	4.00%	855515
5	T&P on material cost	1.00%	213879
6	Contingencies on material	2.00%	427757
Service Cost			53041914
Sub-Total			26200139
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	52400
Sub-Total			26252539
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	262525
9	Insurance	1.00%	262525
10	Turnkey Charges	0.00%	0
Total			26777590
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			32934123

Particulars	Tender/ Estimate Amount	
	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	40647644	26777611
Civil Works As per Sheet 'C'	7847172	6156533
Total Cost of the Estimate	48494816	32934145

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	90.15	135229.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	3162.50	3162.50
				Total:	336777.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	314267.40

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cum	6	255.30	1531.80
8	Sundries	L.S.	1	885.50	885.50
				Total:	247869.50

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6156533.25

Item Code No. 7005					
GIS 33/11 KV 1 x 10 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 33/11 KV, 1X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1518000.00	1518000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1911555.60	1911555.60
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	2136.51	427302.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
8	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
9	33 KV Post Insulator	Nos	6	600.83	3604.99
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	1011999.60	1011999.60
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	4	955777.20	3823108.80
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1310999.60	0.00
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1468.62	2937240.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
16	Earthing complete as per Sheet no.2	Set	2	297483.00	594966.00
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	434730.66	869461.33
18	11 kV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
19	Clamps and Connectors as per Sheet no.5	No.	1	289026.92	289026.92
20	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
21	S/S Yard lighting as per Sheet no.7	No.	1	259047.25	259047.25
22	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	251606.30	251606.30
Cost of material					24633036.93

1	Erection cost on material	5.00%	1231652
2	Contractor supervision charges on material	5.00%	1231652
Sub-Total			27096341
3	Contractor's Profit	5.00%	1354817
Sub-Total			28451158
4	Transportation on material	4.00%	985321
5	T&P on material cost	1.00%	246330
6	Contingencies on material	2.00%	492661
Service Cost			61089932
Sub-Total			30175470
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	60351
Sub-Total			30235821
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	302358
9	Insurance	1.00%	302358
10	Turnkey Charges	0.00%	0
Total			30840538
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			36884895

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	46815087	30840562
Civil Works As per Sheet 'C'	7704191	6044357
Total Cost of the Estimate	54519278	36884920

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for0.2 ACSR	Nos.	36	700.19	25206.80
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors			0.00	
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	434730.66

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	289026.92

Sheet
No.7

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	Armoured Copper control cable 4C X 2.5 Sq mm	Mtr.	250	113.88	28470.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	259047.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	LS	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	73671.00	
2	Control room (As per table B) GIS	3809684.07	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitary Water supply	0.00	
5	Electrification (Lumsum)	130000.00	
6	WBM Road (As per table D) GIS	102277.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00	
8	Metal Spreading (As per table F) GIS	66658.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96	
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00	
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00	
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20	
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59	
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00	
15	Construction of retaining wall. (As per table K) GIS	714839.45	
16	Rain Water Harvesting (As per Table L) Indoor	73475.01	
17	Culvert (As per Table N) Indoor if required	179692.50	
	Total=	6044357.29	

Item Code No. 7006					
GIS 33/11 KV 1 x 10 MVA (Other cities)					
Cost data for 33/11 KV, 1X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 10 MVA	No	1	6327722.70	6327722.70
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	1	1518000.00	1518000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1518000.00	1518000.00
4	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	2136.51	427302.00
5	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
6	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
7	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
8	33 KV Post Insulator	Nos	6	600.83	3604.99
9	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
10	11kV ID switchgear (1 I/c+1 B/c+4O/G)	No	1	1958473.00	1958473.00
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1468.62	440586.00
12	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	4	1662.00	6648.00
13	Clamps and Connectors as per Sheet no.4	Mtr.	1	449182.82	449182.82
14	S/S Yard lighting as per Sheet no.5	No.	1	247869.50	247869.50
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	248538.65	248538.65
17	Control cables for S/S as per Sheet no.7	No.	1	109806.49	109806.49
18	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					14346350.65

1	Erection cost on material	5.00%	717318
2	Contractor supervision charges on material	5.00%	717318
Sub-Total			15780986
3	Contractor's Profit	5.00%	789049
Sub-Total			16570035
4	Transportation on material	4.00%	573854
5	T&P on material cost	1.00%	143464
6	Contingencies on material	2.00%	286927
Service Cost			35578950
Sub-Total			17574280
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	35149
Sub-Total			17609428
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	176094
9	Insurance	1.00%	176094
10	Turnkey Charges	0.00%	0
Total			17961617
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			6044357
			24005974

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	27265239	17961631
Civil Works As per Sheet 'C'	7704191	6044357
Total Cost of the Estimate	34969431	24005988

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	90.15	135229.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	3162.50	3162.50
				Total:	336777.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
7	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
				Total:	449182.82

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cum	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	247869.50

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6044357.29

Item Code No. 7007					
GIS 33/11 KV 2 x 10 MVA(for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 33/11 KV, 2X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 10 MVA	No	2	6327722.70	12655445.40
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1518000.00	3036000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1911555.60	1911555.60
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	2136.51	427302.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
8	33 KV Lightning Arrestors (Station type)	Set	4	11296.50	45186.00
9	33 KV Post Insulator	Nos	6	600.83	3604.99
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	1011999.60	2023999.20
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	8	955777.20	7646217.60
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1310999.60	1310999.60
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1468.62	2937240.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
17	Earthing complete as per Sheet no.2	Set	2	297483.00	594966.00
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	434730.66	869461.33
19	11 kV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
20	Clamps and Connectors as per Sheet no.5	No.	1	289026.92	289026.92
21	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
22	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
23	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	251606.30	251606.30
Cost of material					38619017.63

1	Erection cost on material	5.00%	1930951
2	Contractor supervision charges on material	5.00%	1930951
Sub-Total			42480919
3	Contractor's Profit	5.00%	2124046
Sub-Total			44604965
4	Transportation on material	4.00%	1544761
5	T&P on material cost	1.00%	386190
6	Contingencies on material	2.00%	772380
Service Cost			95775164
Sub-Total			47308297
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	94617
Sub-Total			47402913
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	474029
9	Insurance	1.00%	474029
10	Turnkey Charges	0.00%	0
Total			48350971
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			6189152

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	73395443	48351010
Civil Works As per Sheet 'C'	7888747	6189152
Total Cost of the Estimate	81284190	54540162

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 1x 10 MVA,33/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for0.2 ACSR	Nos.	36	700.19	25206.80
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	434730.66

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
				Total:	289026.92

Sheet
No.7

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Sheet
No.9

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	32618.26
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6189151.51

Item Code No. 7008					
GIS 33/11 KV 2 x 10 MVA (Other Cities)					
Cost data for 33/11 KV, 2X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 33/11 KV, 10 MVA	No	2	6327722.70	12655445.40
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1518000.00	3036000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	Mtr.	1	1911555.60	1911555.60
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	No.	200	2136.51	427302.00
6	33 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	Set	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	66228.00	132456.00
8	33 KV Lightning Arrestors (Station type)	Nos	4	11296.50	45186.00
9	33 KV Post Insulator	Nos	6	600.83	3604.99
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11kV I D switchgear (2 I/c+1 B/c+8O/G)	No	1	3584805.30	3584805.30
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1468.62	881172.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1662.00	13296.00
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	520314.92	520314.92
15	S/S Yard lighting as per Sheet no.5	No.	1	253197.25	253197.25
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	248538.65	248538.65
18	Control cables for S/S as per Sheet no.7	No.	1	220803.67	220803.67
19	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					27882652.28

1	Erection cost on material	5.00%	1394133
2	Contractor supervision charges on material	5.00%	1394133
Sub-Total			30670918
3	Contractor's Profit	5.00%	1533546
Sub-Total			32204463
4	Transportation on material	4.00%	1115306
5	T&P on material cost	1.00%	278827
6	Contingencies on material	2.00%	557653
Service Cost			69148978
Sub-Total			34156249
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	68312
Sub-Total			34224562
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	342246
9	Insurance	1.00%	342246
10	Turnkey Charges	0.00%	0
Total			34909053
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			41098204

Particulars	Tender/ Estimate Amount	
	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	52990981	34909081
Civil Works As per Sheet 'C'	7888747	6189152
Total Cost of the Estimate	60879728	41098232

Sheet No
- 1

Cost data for 33 KV Gantry M.S.Structure/Steel Section for 1x5 MVA S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x10 MVA, 33/11 KV S/Strn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 2x10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
7	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
				Total:	520314.92

Sheet
No.5

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsun)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	32618.26
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6189151.51

Item Code No. 7009					
GIS 22/11 KV 1 x 5 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 22/11 KV, 1 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	4462032.15	4462032.15
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1518000.00	1518000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1911555.60	1911555.60
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1932.48	386496.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
8	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
9	22 KV Post Insulator	Nos	6	474.36	2846.18
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	1011999.60	1011999.60
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	3	955777.20	2867331.60
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1310999.60	
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1468.62	2937240.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
16	Earthing complete as per Sheet no.2	Set	2	297483.00	594966.00
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	351439.91	702879.83
18	11 kV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
19	Clamps and Connectors as per Sheet no.5	No.	1	210956.87	210956.87
20	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
21	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
22	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	246518.60	246518.60
Cost of material					21079109.95

1	Erection cost on material	5.00%	1053955
2	Contractor supervision charges on material	5.00%	1053955
Sub-Total			23187021
3	Contractor's Profit	5.00%	1159351
Sub-Total			24346372
4	Transportation on material	4.00%	843164
5	T&P on material cost	1.00%	210791
6	Contingencies on material	2.00%	421582
Service Cost			52276193
Sub-Total			25821910
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	51644
Sub-Total			25873554
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	258736
9	Insurance	1.00%	258736
10	Turnkey Charges	0.00%	0
Total			26391025
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			32435382

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	40060848	26391046
Civil Works As per Sheet 'C'	7704191	6044357
Total Cost of the Estimate	47765040	32435403

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	351439.91

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
				Total:	210956.87

Sheet
No.7

Cost data for Yard Lighting of 2x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
					253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	246518.60

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
		6044357.29

Item Code No. 7010					
GIS 22/11 KV 1 x 5 MVA (other cities)					
Cost data for 22/11 KV, 1 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	4462032.15	4462032.15
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	1	1518000.00	1518000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1518000.00	1518000.00
4	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1932.48	386496.00
5	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
6	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
7	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
8	22 KV Post Insulator	Nos	6	474.36	2846.18
9	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
10	11kV ID switchgear (1 I/c+1 B/c+4O/G)	No	1	1958473.00	1958473.00
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1468.62	440586.00
12	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	4	1662.00	6648.00
13	Clamps and Connectors as per Sheet no.4	Mtr.	1	314267.40	314267.40
14	S/S Yard lighting as per Sheet no.5	No.	1	247869.50	247869.50
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	248538.65	248538.65
17	Control cables for S/S as per Sheet no.7	No.	1	109806.49	109806.49
18	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					11868874.69

1	Erection cost on material	5.00%	593444
2	Contractor supervision charges on material	5.00%	593444
Sub-Total			13055762
3	Contractor's Profit	5.00%	652788
Sub-Total			13708550
4	Transportation on material	4.00%	474755
5	T&P on material cost	1.00%	118689
6	Contingencies on material	2.00%	237377
Service Cost			29434809
Sub-Total			14539371
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	29079
Sub-Total			14568450
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	145685
9	Insurance	1.00%	145685
10	Turnkey Charges	0.00%	0
Total			14859819
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			6044357
			20904177

Particulars	Tender/ Estimate Amount	
	DPR Amount	Tender/ Estimate Amount
Cost with overheads on Material	22556796	14859831
Civil Works As per Sheet 'C'	7704191	6044357
Total Cost of the Estimate	30260988	20904188

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	90.15	135229.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	3162.50	3162.50
				Total:	336777.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
				Total:	314267.40

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cum	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	247869.50

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6044357.29

Item Code No. 7011					
GIS 22/11 KV 2 x 5 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 22/11 KV, 2 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	4462032.15	8924064.30
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1518000.00	3036000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1911555.60	1911555.60
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1932.48	386496.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
8	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
9	22 KV Post Insulator	Nos	6	474.36	2846.18
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	1011999.60	2023999.20
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	6	955777.20	5734663.20
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1310999.60	1310999.60
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1468.62	2937240.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
17	Earthing complete as per Sheet no.2	Set	2	297483.00	594966.00
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	351439.91	702879.83
19	11 kV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
20	Clamps and Connectors as per Sheet no.5	No.	1	210956.87	210956.87
21	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
22	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
23	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	246518.60	246518.60
Cost of material					32249472.90

1	Erection cost on material	5.00%	1612474
2	Contractor supervision charges on material	5.00%	1612474
Sub-Total			35474420
3	Contractor's Profit	5.00%	1773721
Sub-Total			37248141
4	Transportation on material	4.00%	1289979
5	T&P on material cost	1.00%	322495
6	Contingencies on material	2.00%	644989
Service Cost			79978693
Sub-Total			39505604
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	79011
Sub-Total			39584616
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	395846
9	Insurance	1.00%	395846
10	Turnkey Charges	0.00%	0
Total			40376308
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			6156533
Total Cost of Estimate			46532841

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	61290123	40376340
Civil Works As per Sheet 'C'	7847172	6156533
Total Cost of the Estimate	69137295	46532873

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x5 MVA at 22/11 KV sub stn. (outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x5 MVA 22/11 KV Sub Stn.(Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Disc Insulator 11 KV 70 KN	Nos.	36	310.01	11160.46
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 KV Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 100 mm ²	Rmt.	150	66.69	10003.85
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors			#N/A	
a)	DOG TO DOG or equivalent AAAC	Nos.	18	642.38	11562.85
b)	T-Connector for 100 sq mm conductor	Nos.	18	842.95	15173.10
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	351439.91

Sheet
No. 5

Cost data for Clamps & Connectors at 2x5 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
				Total:	210956.87

Sheet
No.7

Cost data for Yard Lighting of 2x5 MVA , 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cmt	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
					253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x5 MVA 22/11 KV sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	269.28	2692.80
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	202.50	10125.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	246518.60

Cost data for Control cable 2X5 MVA 22/11 KV Sub.Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6156533.25

Item Code No. 7012					
GIS 22/11 KV 2 x 5 MVA (other cities)					
Cost data for 22/11 KV, 2 X 5 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	4462032.15	8924064.30
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1518000.00	3036000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1911555.60	1911555.60
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1932.48	386496.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
8	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
9	22 KV Post Insulator	Nos	6	474.36	2846.18
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11kV I D switchgear (2 I/c+1 B/c+8O/G)	No	1	3584805.30	3584805.30
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1468.62	881172.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1662.00	13296.00
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	520314.92	520314.92
15	S/S Yard lighting as per Sheet no.5	No.	1	253197.25	253197.25
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	248538.65	248538.65
18	Control cables for S/S as per Sheet no.7	No.	1	220803.67	220803.67
19	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					23674401.20

1	Erection cost on material	5.00%	1183720
2	Contractor supervision charges on material	5.00%	1183720
Sub-Total			26041841
3	Contractor's Profit	5.00%	1302092
Sub-Total			27343933
4	Transportation on material	4.00%	946976
5	T&P on material cost	1.00%	236744
6	Contingencies on material	2.00%	473488
Service Cost			58712515
Sub-Total			29001141
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	58002
Sub-Total			29059144
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	290591
9	Insurance	1.00%	290591
10	Turnkey Charges	0.00%	0
Total			29640327
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			35796860

Particulars	Tender/ Estimate Amount	
	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	44993199	29640350
Civil Works As per Sheet 'C'	7847172	6156533
Total Cost of the Estimate	52840371	35796884

Sheet
No.1

Cost data for 22 KV Gantry M.S.structure/steel section for 2x5 MVA Sub stn. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 2x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
7	Wedge Connectors			#N/A	
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
				Total:	520314.92

Sheet
No.5

Cost data for Yard Lighting of 2X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 2 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsun)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6156533.25

Item Code No. 7013					
GIS 22/11 KV 1 x 10 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 22/11 KV, 1X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	6439026.15	6439026.15
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1518000.00	1518000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1911555.60	1911555.60
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1932.48	386496.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
8	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
9	22 KV Post Insulator	Nos	6	474.36	2846.18
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	1011999.60	1011999.60
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	4	955777.20	3823108.80
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1310999.60	0.00
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1468.62	2937240.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
16	Earthing complete as per Sheet no.2	Set	2	297483.00	594966.00
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	436886.93	873773.85
18	11 kV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
19	Clamps and Connectors as per Sheet no.5	No.	1	216463.07	216463.07
20	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
21	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
22	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	251606.30	251606.30
Cost of material					24193369.08

1	Erection cost on material	5.00%	1209668
2	Contractor supervision charges on material	5.00%	1209668
Sub-Total			26612706
3	Contractor's Profit	5.00%	1330635
Sub-Total			27943341
4	Transportation on material	4.00%	967735
5	T&P on material cost	1.00%	241934
6	Contingencies on material	2.00%	483867
Service Cost			59999555
Sub-Total			29636877
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	59274
Sub-Total			29696151
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	296962
9	Insurance	1.00%	296962
10	Turnkey Charges	0.00%	0
Total			30290074
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			6044357

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	45979498	30290098
Civil Works As per Sheet 'C'	7704191	6044357
Total Cost of the Estimate	53683689	36334455

Sheet
No. 1

Cost data for 22 KV Gantry M.S.Structure/Steel Section for 2x 10 MVA, 22/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x 10 MVA, 22/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Strain Hardware for 0.2 ACSR	Nos.	36	700.19	25206.80
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	436886.93

Sheet
No. 5

Cost data for Clamps & Connectors at 2x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
	a) PANTHER TO PANTHER or equivalent AAAC	Nos.	30	825.92	24777.62
	b) T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
				Total:	216463.07

Sheet
No.7

Cost data for Yard Lighting of 2X10 MVA, 22/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x10 MVA 22/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S.	1	2781.00	2781.00
				Total:	251606.30

Cost data Control cable 2 X10 MVA 22/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6044357.29

Item Code No. 7014					
GIS 22/11 KV 1 x 10 MVA (other cities)					
Cost data for 22/11 KV, 1X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	6439026.15	6439026.15
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	1	1518000.00	1518000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1518000.00	1518000.00
4	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1932.48	386496.00
5	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
6	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
7	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
8	22 KV Post Insulator	Nos	6	474.36	2846.18
9	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
10	11kV ID switchgear (1 I/c+1 B/c+4O/G)	No	1	1958473.00	1958473.00
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1468.62	440586.00
12	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	4	1662.00	6648.00
13	Clamps and Connectors as per Sheet no.4	Mtr.	1	449182.82	449182.82
14	S/S Yard lighting as per Sheet no.5	No.	1	247869.50	247869.50
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	248538.65	248538.65
17	Control cables for S/S as per Sheet no.7	No.	1	109806.49	109806.49
18	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					13980784.11

1	Erection cost on material	5.00%	699039
2	Contractor supervision charges on material	5.00%	699039
Sub-Total			15378863
3	Contractor's Profit	5.00%	768943
Sub-Total			16147806
4	Transportation on material	4.00%	559231
5	T&P on material cost	1.00%	139808
6	Contingencies on material	2.00%	279616
Service Cost			34672345
Sub-Total			17126461
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	34253
Sub-Total			17160713
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	171607
9	Insurance	1.00%	171607
10	Turnkey Charges	0.00%	0
Total			17503928
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			6044357
			23548285

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	26570480	17503942
Civil Works As per Sheet 'C'	7704191	6044357
Total Cost of the Estimate	34274672	23548299

Sheet
No. 1

Cost data for 22 KV Gantry M.S.Structure/Steel Section for 2x 10 MVA, 22/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 1x 5 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	G.I.Flat 50 x 6 mm	Kg.	1500	90.15	135229.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	3162.50	3162.50
				Total:	336777.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 1x5 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 1x5 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	24	1140.80	27379.20
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 33 KV C.T.	Nos.	6	1667.50	10005.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	6	2415.00	14490.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
				Total:	449182.82

Sheet
No.5

Cost data for Yard Lighting of 1X 5 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	7	3935.10	27545.70
6	Red Bricks	No.	1000	6.33	6325.00
7	Sand	Cum	6	255.30	1531.80
8	Sundries	L.S.	-	885.50	885.50
				Total:	247869.50

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 1x 5 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 1 X 5 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	125	430.81	53850.88
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	281.11	36544.56
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	113.88	6263.40
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	71.64	3582.15
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	90.48	9048.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	109806.49

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	0.00
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	0.00
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
		6044357.29

Item Code No. 7015					
GIS 22/11 KV 2 x 10 MVA (for cities Amravati, Nagpur, Pune, Bhandup, Kalyan & Nashik)					
Cost data for 22/11 KV, 2X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No.	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	2	6439026.15	12878052.30
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1518000.00	3036000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1911555.60	1911555.60
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1932.48	386496.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	No.	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
8	22 KV Lightning Arrestors (Station type)	Set	4	13666.01	54664.02
9	22 KV Post Insulator	Nos	6	474.36	2846.18
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	1011999.60	2023999.20
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	8	955777.20	7646217.60
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1310999.60	1310999.60
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1468.62	2937240.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1662.00	79776.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
17	Earthing complete as per Sheet no.2	Set	2	297483.00	594966.00
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	436886.93	873773.85
19	11 kV Pin Insulators with G.I. Pins	No.	24	108.66	2607.88
20	Clamps and Connectors as per Sheet no.5	No.	1	216463.07	216463.07
21	L.As. 11 KV (Gapless type) with disconnector	Set	2	1458.20	2916.40
22	S/S Yard lighting as per Sheet no.7	No.	1	253197.25	253197.25
23	Control cables for S/S as per Sheet no.9	No.	1	220803.67	220803.67
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	251606.30	251606.30
Cost of material					38296503.23

1	Erection cost on material	5.00%	1914825
2	Contractor supervision charges on material	5.00%	1914825
Sub-Total			42126154
3	Contractor's Profit	5.00%	2106308
Sub-Total			44232461
4	Transportation on material	4.00%	1531860
5	T&P on material cost	1.00%	382965
6	Contingencies on material	2.00%	765930
Service Cost			94975328
Sub-Total			46913216
7	BG Charges on 10% of the LOA amount (on Material+centage)	0.20%	93826
Sub-Total			47007043
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	470070
9	Insurance	1.00%	470070
10	Turnkey Charges	0.00%	0
Total			47947184
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			6189152
Total Cost of Estimate			54136335

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	72782504	47947222
Civil Works As per Sheet 'C'	7888747	6189152
Total Cost of the Estimate	80671252	54136374

Sheet
No. 1

Cost data for 22 KV Gantry M.S.Structure/Steel Section for 2x 10 MVA, 22/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 22/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No.3

Cost data of Structure for 22 KV CT & PT at 2x 10 MVA, 22/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 22 KV PT	Kg.	315	69.93	22027.95
2	Structure for 22 KV CT	Kg.	360	69.93	25174.80
3	Structure for 22 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No : 4

Cost data for Take off structure for 11 KV Feeders 3 outlets at 2x5 MVA 22/11 KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	8	12492.90	99943.20
2	MS Channel 100x50x6 mm	Kg.	1610	69.93	112587.30
3	MS angle 50x50x6 mm	Kg.	100	69.93	6993.00
4	MS Flat 75x10 mm	Kg.	80	65.48	5238.00
5	11KV A.B. Switch, 400 A	Nos.	3	11088.00	33264.00
6	Strain Hardware for 0.2 ACSR	Nos.	36	700.19	25206.80
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	369.91	13316.72
8	11 kv Pin Insulators with G.I. Pins	Nos.	9	108.66	977.95
9	Earthing Sets H.T	Sets	3	461.70	1385.10
10	L.As. 11 KV (Gapless type) with disconnector	Sets	3	1458.20	4374.60
11	AAAC 232 mm ²	Rmt.	150	159.25	23887.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	G.I.Nut Bolts	Kg.	50	111.92	5595.75
14	Concreting ration 1:3:6	Cmt.	4	3935.10	15740.40
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	825.92	14866.57
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3854.80	69386.40
16	Miscellaneous material	LS	1	517.50	517.50
				Total:	436886.93

Sheet
No. 5

Cost data for Clamps & Connectors at 2x10 MVA 22/11 kv sub stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	30	825.92	24777.62
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
2	Clamps for 22 KV Isolator	Nos.	18	1173.00	21114.00
3	Connectors for T/F Bushing	Nos.	6	4350.45	26102.70
4	Clamps for 22 KV C.T.	Nos.	6	1638.75	9832.50
5	Clamps for 22 KV P.T.	Nos.	3	1638.75	4916.25
6	Clamp for 22 KV VCB	Nos.	6	2346.00	14076.00
				Total:	216463.07

Sheet
No.7

Cost data for Yard Lighting of 2X10 MVA, 22/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x10 MVA 22/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	69.93	20279.70
2	M.S.Channel 75x40x6 mm	Kg.	15	69.93	1048.95
3	MS Flat 75x10 mm	Kg.	20	65.48	1309.50
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV A.B. Switch, 400 A	Set	1	11088.00	11088.00
7	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
8	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
9	11 kv Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
12	Earthing Sets H.T	Nos.	3	461.70	1385.10
13	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
14	Coal	Kg.	200	17.25	3450.00
15	Salt	Kg.	200	8.05	1610.00
16	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	251606.30

Cost data Control cable 2 X10 MVA 22/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	32618.26
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6189151.51

Item Code No. 7016					
GIS 22/11 KV 2 x 10 MVA (other cities)					
Cost data for 22/11 KV, 2X 10 MVA GIS S/s					
Sr. No.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
A 33/22 kV Switchgear part					
1	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	2	6439026.15	12878052.30
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1518000.00	3036000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1518000.00	3036000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	Mtr.	1	1911555.60	1911555.60
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	No.	200	1932.48	386496.00
6	22 kV Silicon coated touchproof Indoor termination joint (AI) kit for XLPE 3 C X 300 sqmm	Set	8	16325.00	130600.00
7	22 KV Isolators with EB (800 A)	Set	2	49856.40	99712.80
8	22 KV Lightning Arrestors (Station type)	Nos	4	13666.01	54664.02
9	22 KV Post Insulator	Nos	6	474.36	2846.18
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	263209.50	263209.50
B 11 kV Switchgear part					
11	11kV I D switchgear (2 I/c+1 B/c+8O/G)	No	1	3584805.30	3584805.30
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1468.62	881172.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1662.00	13296.00
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	520314.92	520314.92
15	S/S Yard lighting as per Sheet no.5	No.	1	253197.25	253197.25
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	82800.00	82800.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	248538.65	248538.65
18	Control cables for S/S as per Sheet no.7	No.	1	220803.67	220803.67
19	AC Distribution Board 'B' type	No.	1	24325.00	24325.00
Cost of material					27628389.20

1	Erection cost on material	5.00%	1381419
2	Contractor supervision charges on material	5.00%	1381419
Sub-Total			30391228
3	Contractor's Profit	5.00%	1519561
Sub-Total			31910790
4	Transportation on material	4.00%	1105136
5	T&P on material cost	1.00%	276284
6	Contingencies on material	2.00%	552568
Service Cost			68518405
Sub-Total			33844777
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	67690
Sub-Total			33912466
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	339125
9	Insurance	1.00%	339125
10	Turnkey Charges	0.00%	0
Total			34590716
9	Civil Works As per Sheet 'C'	No.	1
Total Cost of Estimate			6189152
Total Cost of Estimate			40779867

Particulars	Tender/ Estimate Amount	
	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	52507754	34590743
Civil Works As per Sheet 'C'	7888747	6189152
Total Cost of the Estimate	60396501	40779895

Sheet
No. 1

Cost data for 22 KV Gantry M.S.Structure/Steel Section for 2x 10 MVA, 22/11 kv S/S (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Column type HG(6Nos.)-496.0 kg.	MT	2.976	65475.00	194853.60
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	65475.00	68355.90
				Total:	263209.50

Sheet
No.2

Cost data for Earthing Work at 2x 10 MVA at 33/11 KV S/S

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	M.S.Flat 50 x 6 mm	Kg.	1500	65.48	98212.50
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	7245.00	159390.00
3	Coal	Kg.	1310	17.25	22597.50
4	Salt	Kg.	1310	8.05	10545.50
5	RCC Ring work for earthing pits	No.	22	266.00	5852.00
6	Sundries	L.S.	1	885.50	885.50
				Total:	297483.00

Sheet
No.3

Cost data of Structure for 33 KV CT & PT at 2x10 MVA, 33/11 KV S/Stn.

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt.Rs.
1	Structure for 33 KV PT	Kg.	315	69.93	22027.95
2	Structure for 33 KV CT	Kg.	360	69.93	25174.80
3	Structure for 33 KV L.A.	Kg.	155	69.93	10839.15
4	Structure for Power T/F Neutral Earthing	Kg.	50	69.93	3496.50
5	G.I.Nut Bolts	Kg.	30	111.92	3357.45
				Total:	64895.85

Sheet
No.4

Cost data for Clamps & Connectors at 2x10 MVA, 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	T-Connector for 200 sq mm conductor(Compression type)	Nos.	60	3854.80	231288.00
2	Clamps for 33 KV Isolator	Nos.	42	1140.80	47913.60
3	Connectors for T/F Bushing	Nos.	12	4350.45	52205.40
4	Clamps for 33 KV C.T.	Nos.	12	1667.50	20010.00
5	Clamps for 33 KV P.T.	Nos.	3	1667.50	5002.50
6	Clamps for 33 KV V.C.B.	Nos.	12	2415.00	28980.00
7	Wedge Connectors				
	a) DOG TO DOG or equivalent AAAC	Nos.	30	642.38	19271.42
	b) T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3854.80	115644.00
				Total:	520314.92

Sheet
No.5

Cost data for Yard Lighting of 2X 10 MVA, 33/11 KV sub station. (Outdoor)

Sr.No.	Description of Material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Flood lights with control gear box & 250w SV Lamp	No.	14	7245.00	101430.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	5537.25	77521.50
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	90.48	22620.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	100.10	10010.00
5	Concreting ration 1:3:6	Cmt	8	3935.10	31480.80
6	Red Bricks	No.	1200	6.33	7590.00
7	Sand	Cum	6.5	255.30	1659.45
8	Sundries	L.S.	-	885.50	885.50
				Total:	253197.25

Sheet
No.6

Cost data for 100 KVA, 11/0.43 KV Station Transformer for 2x 10 MVA, 33/11 S/S (Outdoor).

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	G.I.Channel 100x50x6mm	Kg.	290	94.61	27436.32
2	G.I.Channel 75x40x6mm	Kg.	15	94.61	1419.12
3	G.I Flat 75x10 mm	Kg.	20	90.15	1803.06
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	140962.50	140962.50
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15386.40	15386.40
6	11KV H.G.Fuses	Nos.	1	2356.80	2356.80
7	L.As. 11 KV (Gapless type) with disconnector	Set	1	1458.20	1458.20
8	11 KV Pin Insulators with G.I. Pins	Nos.	6	108.66	651.97
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	444.15	4441.50
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	269.28	13464.00
11	Earthing Sets H.T	Nos.	3	461.70	1385.10
12	G.I.Strip (25 X 3 mm)	Kg.	40	90.15	3606.12
13	Coal	Kg.	200	17.25	3450.00
14	Salt	Kg.	200	8.05	1610.00
15	Plinth for station Transformer	Cmt.	5.6	3935.10	22036.56
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	143.00	4290.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2781.00	2781.00
				Total:	248538.65

Sheet
No.7

Cost data for Control cable 2 X 10 MVA, 33/11KV S/Stn

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt	250	430.81	107701.75
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	281.11	73089.12
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	113.88	14235.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	71.64	7164.30
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	90.48	18096.00
6	Miscellaneous material	L.S	1	517.50	517.50
				TOTAL	220803.67

C Cost data for civil works for 22/11 KV Sub Station.

Sr.No.	Particular	Amount
1	Land Development (As per table A) GIS	73671.00
2	Control room (As per table B) GIS	3809684.07
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00
4	Sanitary Water supply	0.00
5	Electrification (Lumsum)	130000.00
6	WBM Road (As per table D) GIS	102277.50
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	406257.00
8	Metal Spreading (As per table F) GIS	66658.00
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
10	Equipment Foundations for 1X 5 MVA or 1X10 MVA (As table G2) Hybrid / Indoor / GIS	112175.96
11	Fire Wall for 2 x 10 MVA Power Transformer (as per table G3) Hybrid / Indoor / GIS	32618.26
12	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	63403.20
13	Borewell including pumpset and allied accessories. (As per table I) GIS	104335.59
14	Const.of cable trench with covers in S/Yard. (As per table J) GIS	207888.00
15	Construction of retaining wall. (As per table K) GIS	714839.45
16	Rain Water Harvesting (As per Table L) Indoor	73475.01
17	Culvert (As per Table N) Indoor if required	179692.50
	Total=	6189151.51

Item Code No. 1230					
COST DATA FOR 11 kV SPECIAL DESIGNED TRANSFORMER					
S.N.	Description of material	Unit	Qty.	Rate	Amt. Rs.
1	11kV Specially Designed Transformer with all accessories, Control cable, Relays, Contactors, Indicators etc.	Set	1	152087.50	152087.5
2	11 KV CT for SDT	No	1	12733.20	12733.20
3	11kV Gang operated Three pole double throw change over switch	Set	1	16080.00	16080
4	11kV DP structure with L.A. as per sheet 'A'	No	1	62059.57	62059.57
5	Permanent earthing system by use of Pipe in pipe arrangement, with earthing materials Bentonite clay, salt, coal etc	No	2	7598.05	15196.1
6	GI Pipe 20 mm	rmt	15	94.61	1419.12
7	16 mm 2 Single core multistrand copper Armored cable.	rmt	15	147.15	2207.25
8	CT Box SMC Type Meter Box (Hinge Type) Size: 400X300X190 mm	No.	1	792.75	792.75
9	Relay Box MS fabricated with powder coating suitable for outdoor installation of Relay.	No.	1	1164.00	1164.00
10	1" PVC pipe for laying control cable	rmt	25	83.95	2098.75
	Cost of Material				265838.24

1	Erection cost on material	5.00%	13292
2	Contractor supervision charges on material	5.00%	13292
	Sub-Total		292422
3	Contractor's Profit	5.00%	14621
	Sub-Total		307043
4	Transportation on material	4.00%	10634
5	T&P on material cost	1.00%	2658
6	Contingencies on material	2.00%	5317
	Service Cost		659279
	Sub-Total		325652
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	651
	Sub-Total		326303
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	3263
9	Insurance	1.00%	3263
10	Turnkey Charges	0.00%	0
	Total		332829

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	505226	332829
Total Cost of the Estimate	505226	332829

SHEET A DOUPLE POLE STRUCTURE FOR SPECIAL DESIGN TRANSFORMER

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
2	M.S. Flats(50 X 10mm)	Kg.	12	65.48	785.70
3	M.S.Flat 50 x 6 mm	Kg.	10	65.48	654.75
4	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
5	M.S.Channel 75x40x6 mm	Kg.	42	69.93	2937.06
6	MS angle 50x50x6 mm	Kg.	30	69.93	2097.90
7	11 kV Pin Insulators with G.I. Pins	No.	3	108.66	325.98
8	Strain Hardware for 55 Sq.mm AAAC	Set	6	161.00	966.00
9	Disc Insulator 11 KV 70 KN	No.	6	310.01	1860.08
10	H.T. Stay Set	No.	4	807.30	3229.20
11	G.I. Stay Wire 7/4mm(8 SWG)	Kg.	24	71.81	1723.50
12	Earthing Sets H.T	No	3	461.70	1385.10
13	G.I.Wire 8 SWG/ 6 SWG	kg.	5	71.75	358.75
14	L.As. 11 KV (Gapless type) with disconnector	No.	2	1458.20	2916.40
15	Danger Board in yard.	No.	2	57.50	115.00
16	Concreting ration 1:3:6	Cmt.	2.5	3935.10	9837.75
17	Sundries, such as Nut-Bolts, wedge connectos, Washers, Jumper & Minor fabrication., painting, earthing materials	L.S.	1	887.60	887.60
	Sub-Total A				62059.57

Item code No. 0819 R					
22kV SPCP With 2no pin type line on RSJ 9 M POLE					
S.N.	Description of material	Unit	Qty.	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	3	12492.90	37478.70
2	M.S.Channel 75x40x6 mm	Kg.	40	69.93	2797.20
3	MS angle 50x50x6 mm	Kg.	25	69.93	1748.25
4	M.S. Flats(50 X 10mm)	Kg.	2	65.48	130.95
5	22 KV V cross arm with clamp	No.	2	1223.10	2446.20
6	22 KV Top fitting	No.	2	515.70	1031.40
7	G.I.Nut Bolts	Kg.	15	111.92	1678.73
8	22 KV Pin Insulators with G.I. Pins	No.	6	386.40	2318.40
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	369.91	2219.45
5	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
6	H.T.Stay Set	No.	4	807.30	3229.20
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	26	71.81	1867.13
8	Earthing Sets H.T	No.	3	461.70	1385.10
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	71.75	143.50
10	G.I.Barbed Wire `A' type.	Kg.	2	80.34	160.68
11	Danger Board in yard.	No.	3	57.50	172.50
12	Black Bituminous Paint	Ltr.	0.5	97.75	48.88
13	Red Oxide Paint for 2 coats	Ltr.	1.5	97.75	146.63
14	Aluminium Paint for 1 coat	Ltr.	1	129.95	129.95
15	Concreting ration 1:3:6	Cmt.	1.5	3935.10	5902.65
16	Sundries	LS	1	885.50	885.50
Cost of material					69641.15

1	Erection cost on material	15.00%	10446
2	Contractor supervision charges on material	5.00%	3482
Sub-Total			83569
3	Contractor's Profit	5.00%	4178
Sub-Total			87748
4	Transportation on material	4.00%	2786
5	T&P on material cost	1.00%	696
6	Contingencies on material	2.00%	1393
Service Cost			194299
Sub-Total			92623
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	185
Sub-Total			92808
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	928
9	Insurance	1.00%	928
10	Turnkey Charges	0.00%	0
Total			94664

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	143259	94663
Total Cost of the Estimate	143259	94663

Item Code No. 0815 R					
22 kV Single Circuit Express/Highway Crossing with 100 sqmm AAAC line on 152X152MM, 13 mtr RSJ Poles					
S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 152x152, 13 m long	No.	4	29108.70	116434.80
2	M.S.Channel 75x40x6 mm	Kg.	160	69.93	11188.80
3	MS angle 50x50x6 mm	kg.	22	69.93	1538.46
4	M.S.Flat 50 x 6 mm	kg.	24	65.48	1571.40
5	AAAC 100 mm ²	m	100	66.69	6669.23
6	22 kV Pin Insulators with G.I. Pins	NO.	6	386.40	2318.40
7	Disc Insulator 11 KV 45 KN	NO.	24	280.60	6734.40
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	369.91	4438.91
9	H.T.Stay Set	No	4	807.30	3229.20
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	71.81	1795.31
11	Earthing Sets H.T	No.	4	461.70	1846.80
12	Danger Board in yard.	No.	4	57.50	230.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	71.75	1793.75
14	G.I.Barbed Wire 'A' type.	kg.	30	80.34	2410.13
15	Concreting ration 1:3:6	CMT.	4	3935.10	15740.40
16	Black Bituminous Paint	Ltr.	2	97.75	195.50
17	Red Oxide Paint for 2 coats	Ltr.	6	97.75	586.50
18	Aluminium Paint for 1 coat	Ltr.	4	129.95	519.80
19	Sundries	L.S.	1	885.50	885.50
20	Wedge connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	No	12	642.38	7708.57
Cost of material					187835.86

1	Erection cost on material	15.00%	28175
2	Contractor supervision charges on material	5.00%	9392
Sub-Total			225403
3	Contractor's Profit	5.00%	11270
Sub-Total			236673
4	Transportation on material	4.00%	7513
5	T&P on material cost	1.00%	1878
6	Contingencies on material	2.00%	3757
Service Cost			524062
Sub-Total			249822
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	500
Sub-Total			250321
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	2503
9	Insurance	1.00%	2503
10	Turnkey Charges	0.00%	0
Total			255328

Particulars	DPR Amount	Tender/ Estimate Amount
		105.71%
Cost with overheads on Material	386397	255325
Total Cost of the Estimate	386397	255325

Item Code No. 0813R

Cost Data for laying of 1 Km. 22 KV 3 C 300 Sqmm XLPE under ground Cable

Sr.No.	Particulars	Unit	Qty.	Rate (Rs.)	Amount
1	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	100	1932.48	193248
2	R.C.C. Pipe 150 mm 2 M	No	40	572.00	22880
3	Half round cement pipe (150mm X 1mtr)	No.	700	143.00	100100
4	22 kV Heat shrik Straight through joint (Al) kit for XLPE 3 C X 300 sqmm	No.	1	24600.00	24600
5	22 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	4	13715.00	54860
6	Sand	Cmt	200	255.30	51060
7	Misc. for XLPE U/G Cable	LS	1	1150.00	1150
	Cost of material				447898

1	Erection cost on material	15.00%	67185
2	Contractor supervision charges on material	5.00%	22395
	Sub-Total		537478
3	Contractor's Profit	5.00%	26874
	Sub-Total		564351
4	Transportation on material	4.00%	17916
5	T&P on material cost	1.00%	4479
6	Contingencies on material	2.00%	8958
	Service Cost		1249635
	Sub-Total		595704
7	BG Charges on 10% of the LOA amount (on Material+centage	0.20%	1191
	Sub-Total		596896
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	5969
9	Insurance	1.00%	5969
10	Turnkey Charges	0.00%	0
	Total		608834

Particulars	DPR Amount	Tender/ Estimate Amount
	105.71%	35.930%
Cost with overheads on Material	921371	608828
Total Cost of the Estimate	921371	608828

Item Code No. 1018

22 KV SPECIAL DESIGNED TRANSFORMER TO AG. FEEDER

S.N.	Description of material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	22kV Specially Designed Transformer with all accessories, control cables, Relays, Contactors, Indicators etc.	Set	1	225312.50	225312.5
2	22 kV CT for SDT	No	1	28520.40	28520.40
3	22kV Gang operated Three pole double throw change over switch	Set	1	8154.00	8154
4	22kV DP structure with L.A. as per sheet 'A'	No	1	67080.46	67080.46
5	Permanent earthing system by use of Pipe in pipe arrangement, with earthing materials Bentonite clay, salt, coal etc	No	2	7598.05	15196.1
6	GI Pipe 20 mm	No	15	94.61	1419.12
7	16 mm 2 Single core multistrand copper Armored cable.	rmt	15	147.15	2207.25
8	CT Box SMC Type Meter Box (Hinge Type) Size: 400X300X190 mm	No	1	792.75	792.75
9	Relay Box MS fabricated with powder coating suitable for outdoor installation of Relay.	No.	1	1164.00	1164.00
10	1" PVC pipe for laying control cable	rmt	25	83.95	2098.75
	Cost of Material				351945.33

1	Erection cost on material	5.00%	17597
2	Contractor supervision charges on material	5.00%	17597
	Sub-Total		387140
3	Contractor's Profit	5.00%	19357
	Sub-Total		406497
4	Transportation on material	4.00%	14078
5	T&P on material cost	1.00%	3519
6	Contingencies on material	2.00%	7039
	Service Cost		872824
	Sub-Total		431133
7	BG Charges on 10% of the LOA amount (on Material-centage)	0.20%	862
	Sub-Total		431995
8	Labour Cess (on Total Works Cost instead of only Material Cost)	1.00%	4320
9	Insurance	1.00%	4320
10	Turnkey Charges	0.00%	0
	Total		440635

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	668872	440636
Total Cost of the Estimate	668872	440636

SHEET A DOUPLE POLE STRUCTURE FOR SPECIAL DESIGN TRANSFORMER

S.N.	Description of Material	Unit	QTY	RT/U.Rs.	Amt Rs.
1	RSJ 116x100, 9 m long	No.	2	12492.90	24985.80
2	M.S. Flats(50 X 10mm)	Kg.	12	65.48	785.70
3	M.S.Flat 50 x 6 mm	Kg.	10	65.48	654.75
4	MS Channel 100x50x6 mm	Kg.	100	69.93	6993.00
5	M.S.Channel 75x40x6 mm	Kg.	42	69.93	2937.06
6	MS angle 50x50x6 mm	Kg.	30	69.93	2097.90
7	22 kV Pin Insulators with G.I. Pins	No.	3	386.40	1159.20
8	Strain Hardware for 55 Sq.mm AAAC	No.	6	161.00	966.00
9	Disc Insulator 11 KV 70 KN	No.	12	310.01	3720.15
10	H.T.Stay Set	No.	4	807.30	3229.20
11	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	71.81	1723.50
12	Earthing Sets H.T	No	3	461.70	1385.10
13	G.I.Wire 8 SWG/ 6 SWG	kg.	5	71.75	358.75
14	L.A.s 22KV (Gapless type) with disconnecter	No.	2	2622.00	5244.00
15	Danger Board in yard.	No.	2	57.50	115.00
16	Concreting ration 1:3:6	Cmt.	2.5	3935.10	9837.75
16	Sundries, such as Nut-Bolts, wedge connectos, Washers, Jumper & Minor fabrication, painting, earthing materials	L.S.	1	887.60	887.60
	Sub-Total A				67080.46

10MVA NIFPS (Make -CTR)					
S.N.	Description of material	Unit	Qty.	RT/U Rs.	Amt. Rs.
1	Supply of system equipments with FS Cable 40Mtrs along with Control box and required Fire detectors. Nomenclature :PNTM 10 B8.5	SETS	1	800000	800000.00
2	FRLS cable of size 12Cx1.5 mm2 for connecting signal box mounted on transformer to control box in the station control room.	Mtrs	200	390	78000.00
3	FRLS cable of size 4CX1.5mm sq for interconnection of AC supply and connection in relay panel	Mtrs	100	185	18500.00
4	Oil drainpipe connection between outlet valve provided on transformer tank and flange provided on top of FE cubicle.	Mtrs	1	60000	60000.00
5	Oil drainpipe connection between oil drainpipe bottom (in FE cubicle) to the oil pit.	Mtrs	1	30000	30000.00
6	Nitrogen injection pipe connection between inlet openings on transformer tank and flange provided on top of FE cubicle.	Mtrs	1	25000	25000.00
7	MS tank	Nrs	1	32451	32451.00
9	Spare Nitrogen Cylinder	Nrs	1	33500	33500.00
10	Heat Sensor for Fire detectors	Nrs	3	4025	12075.00
11	Set of Hose Pipes	Nrs	1	5175	5175.00
Material Total					1094701.00

CIVIL Works					
2	Civil work for Pit	SETS	1	108000.00	108000.00
3	Civil work for NIFPS Plinth	SETS	1	45000.00	45000.00
Services Total					153000.00

Particulars	DPR Amount	Tender/ Estimate Amount
	90.05%	25.200%
Cost with overheads on Material	2080479	1370566
Civil	195015	153000
Total Cost of the Estimate	2275494	1523566

* Note: The above rates given by CTR are tentative one might be varied.