MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.

Proposed Cost Data 2018-19

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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	114241.02	114241.02
6	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
9	Earthing complete as per Sheet no.2	Set	1	234229.08	234229.08
10	Power Transformer 33/11 KV, 5 MVA	No	1	3129000.00	3129000.00
11	33 KV P.T.	Nos	3	18898.49	56695.48
12	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
13	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
14	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
15	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
16	Structure for 33 KV CT & PT as per Sheet no.3	No	1	47173.08	47173.08
17	G.I.Nut Bolts	KG	150	82.89	12433.39
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	1108356.46	1108356.46
19	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
20	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	248220.70	248220.70
21	11 kV Pin Insulators with G.I. Pins	No.	12	135.11	1621.26
22	Clamps and Connectors as per Sheet no.5	No.	1	189486.90	189486.90
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	208567.13	208567.13
24	S/S Yard lighting as per Sheet no.7	No.	1	143596.86	143596.86
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	195504.70	195504.70
27	Control cables for S/S as per Sheet no.9	No.	1	88206.10	88206.10
28	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**6450730.07**
1	Transportation on material	4.00%			258029
2	T&P on material cost	1.00%			64507
3	Contigencies on material	0.50%			32254
5	Erection cost on material	5.00%			322537
6	Contractor supervision charges on material	5.00%			322537
7	Insurance , Labour & Finance Cost	2.50%			161268
	Service Cost				**1161131**
	Sub-Total				**7611861**
8	Turnkey Charges	4.00%			304474
	Total				**7916336**
	Civil Works As per Sheet 'C'	**No.**	**1**		**5565423**
	Total Cost of Estimate				**13481758**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	10090232	7916336
Civil Works As per Sheet 'C'	7093737	5565423
Total Cost of the Estimate	17183969	13481758

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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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**248220.70**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**189486.90**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

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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	3060.00	36720.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cmt	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**143596.86**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**195504.70**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Description	Amount	
1	Land Development (As per table A)	187840.00	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D)	298243.50	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.50	
8	Metal Spreading (As per table F)	130945.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	422579.50	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	5565422.52	

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	114241.02	114241.02
6	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
9	Earthing complete as per Sheet no.2	Set	1	259367.68	259367.68
10	Power Transformer 33/11 KV, 10 MVA	No	1	5233333.00	5233333.00
11	33 KV P.T.	Nos	3	18898.49	56695.48
12	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
13	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
14	C&R panel for 33 KV Transformer with Diff. Protection	No	1	133331.44	133331.44
15	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
16	Structure for 33 KV CT & PT as per Sheet no.3	No	1	47173.08	47173.08
17	G.I.Nut Bolts	KG	150	82.89	12433.39
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	1108356.46	1108356.46
19	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
20	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	319461.67	319461.67
21	11 kV Pin Insulators with G.I. Pins	No.	12	135.11	1621.26
22	Clamps and Connectors as per Sheet no.5	No.	1	189486.90	189486.90
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	261222.21	261222.21
24	S/S Yard lighting as per Sheet no.7	No.	1	143596.86	143596.86
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	197901.30	197901.30
27	Control cables for S/S as per Sheet no.9	No.	1	88206.10	88206.10
28	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

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D	**Cost of material**			**8783176.02**
1	Transportation on material	4.00%		351327
2	T&P on material cost	1.00%		87832
3	Contigencies on material	0.50%		43916
5	Erection cost on material	5.00%		439159
6	Contractor supervision charges on material	5.00%		439159
7	Insurance , Labour & Finance Cost	2.50%		219579
	Service Cost			**1580972**
	Sub-Total			**10364148**
8	Turnkey Charges	4.00%		414566
	Total			**10778714**
9	Civil Works As per Sheet 'C'	No.	1	5565423
	Total Cost of Estimate			**16344136**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	13738644	10778714
Civil Works As per Sheet 'C'	7093737	5565423
Total Cost of the Estimate	20832381	16344136

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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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

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	48.20	96400.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1400	5.54	7756.00
4	Salt	Kg.	1400	6.00	8400.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**259367.68**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**319461.67**

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Sheet No. 5

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**189486.90**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**261222.21**

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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	3060.00	36720.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cmt	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**143596.86**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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Sheet No.10

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 a) First Aid Box b) Shock treatment chart c) Rubber matts 8 mm thick d) 4 Fire buckets with sand & M.S. Hooks / stand e) Helmet f) Hand gloves g) 2 Nos. Fire extinguisher	L.S	1	9058.00	9058.00
2	SLD Board 11 KV side	No.	1	604.00	604.00
3	Sub-station Board (Name) with angle stand	No.	2	3623.00	7246.00
4	Danger Board in yard.	No.	10	50.00	500.00
5	Battery Accessories such as hydrometer,cell tester, Acid can, distilled water can,handgloves etc.	Set	1	899.00	899.00
6	2 no.s 8W CFL lamps with one suitable invertor (DC to AC)	Set	1	600.00	600.00
7	Earth tester 200 Amp. 2000 Ohm	No.	1	9661.02	9661.02
8	2.5 / 5 KV Megger (Mannual)	No.	1	27172.00	27172.00
9	500 V Megger	No.	1	1812.00	1812.00
10	Digital Tong tester (1000 Amp., 500 V) With associated accessories.	No.	1	2959.00	2959.00
11	Digital Multi meter (10 Amp)	No.	1	1933.00	1933.00
12	Dicharge rod for 33 KV	Set	1	604.00	604.00
13	Discharge rod for 11 KV	Set	1	604.00	604.00
14	Tool box with ratchet spanner,flat spanners,box spanner, plier, screwdriver, hammer ,hacksaw with blades, chisel,files (Standard make)	No.	1	3623.00	3623.00
15	2 Cell torch	No.	2	55.00	110.00
16	3 Cell torch	No.	2	79.00	158.00
17	Aluminium ladder (Adjustable)	No.	1	1468.00	1468.00
18	Emergency Artificial resperation kit	Set	1	1811.45	1811.45
19	Name plate painting for all equipments	LS	1	604.00	604.00
				Total:	**71426.47**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	422579.5	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5565422.52**	

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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	46750.00	233750.00
4	33 KV Post Insulator	Nos	6	917.65	5505.93
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.74	183259.74
6	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
9	Earthing complete as per Sheet no.2	Set	2	234229.08	468458.15
10	Power Transformer 33/11 KV, 5 MVA	No	2	3129000.00	6258000.00
11	33 KV P.T.	Nos	3	18898.49	56695.48
12	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
13	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
14	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56649.73	113299.46
15	33 kV Pin Insulators with G.I. Pins	Nos	12	541.38	6496.53
16	Structure for 33 KV CT & PT as per Sheet no.3	No	2	47173.08	94346.15
17	G.I.Nut Bolts	KG	150	82.89	12433.39
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	2	1108356.46	2216712.92
19	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	266366.70	532733.40
20	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
21	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
22	Clamps and Connectors as per Sheet no.5	No.	1	251351.40	251351.40
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	208567.13	417134.27
24	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	197901.30	197901.30
27	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
28	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

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D	**Cost of material**			**12212868.80**
1	Transportation on material	4.00%		488515
2	T&P on material cost	1.00%		122129
3	Contigencies on material	0.50%		61064
5	Erection cost on material	5.00%		610643
6	Contractor supervision charges on material	5.00%		610643
7	Insurance , Labour & Finance Cost	2.50%		305322
	Service Cost			**2198316**
	Sub-Total			**14411185**
8	Turnkey Charges	4.00%		576447
	Total			**14987633**
9	Civil Works As per Sheet 'C'	No.	1	5988002
	Total Cost of Estimate			**20975635**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	19103369	14987633
Civil Works As per Sheet 'C'	7632360	5988002
Total Cost of the Estimate	26735730	20975635

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45587.00	47592.83
				Total:	**183259.74**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**266366.70**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	**251351.40**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

MSEDCL

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

MSEDCL

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840.00	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D)	298243.50	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.50	
8	Metal Spreading (As per table F)	130945.00	
9	Foundations for structures and equipments (for 2 t/f bays)	845159.00	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.02**	

Item Code No. 0104					
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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	46750.00	233750.00
4	33 KV Post Insulator	Nos	6	917.65	5505.93
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.74	183259.74
6	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
9	Earthing complete as per Sheet no.2	Set	2	234229.08	468458.15
10	Power Transformer 33/11 KV, 10 MVA	No	2	5233333.00	10466666.00
11	33 KV P.T.	Nos	3	18898.49	56695.48
12	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
13	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
14	C&R panel for 33 KV Transformer with Diff. Protection	No	2	133331.44	266662.88
16	33 kV Pin Insulators with G.I. Pins	Nos	12	541.38	6496.53
17	Structure for 33 KV CT & PT as per Sheet no.3	No	2	59.90	119.80
18	G.I.Nut Bolts	KG	150	82.89	12433.39
B	**11 KV SIDE**				
19	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	1108356.46	2216712.92
20	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	337607.67	675215.33
21	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
22	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
23	Clamps and Connectors as per Sheet no.5	No.	1	251351.40	251351.40
24	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	261222.21	522444.42
25	S/S Yard lighting as per Sheet no.7	No.	1	186611.50	186611.50
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	197901.30	197901.30
28	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
29	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

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D	**Cost of material**			**16752543.45**
1	Transportation on material	4.00%		670102
2	T&P on material cost	1.00%		167525
3	Contigencies on material	0.50%		83763
5	Erection cost on material	5.00%		837627
6	Contractor supervision charges on material	5.00%		837627
7	Insurance , Labour & Finance Cost	2.50%		418814
	Service Cost			**3015458**
	Sub-Total			**19768001**
8	Turnkey Charges	4.00%		790720
	Total			**20558721**
9	Civil Works As per Sheet 'C'	No.	1	5988002
	Total Cost of Estimate			**26546723**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	26204328	20558721
Civil Works As per Sheet 'C'	7632360	5988002
Total Cost of the Estimate	33836689	26546723

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45587.00	47592.83
				Total:	**183259.74**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**59.90**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**337607.67**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
		Total:			**251351.40**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**261222.21**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	Armoured Copper control cable 4C X 2.5 Sq mm	Mtr.	250	180.20	45050.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Mtr.	100	55.73	5573.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	700.00	700.00
				Total:	**186611.50**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840.00	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D)	298243.50	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.50	
8	Metal Spreading (As per table F)	130945.00	
9	Foundations for structures and equipments (for 2 t/f bays)	845159.00	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.02**	

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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	46750.00	233750.00
4	33 KV Post Insulator	Nos	6	917.65	5505.93
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.74	183259.74
6	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
9	Earthing complete as per Sheet no.2	Set	2	234229.08	468458.15
10	Power Transformer 33/11 KV, 5 MVA	No	1	3129000.00	3129000.00
11	Power Transformer 33/11 KV, 10 MVA	No	1	5233333.00	5233333.00
12	33 KV P.T.	Nos	3	18898.49	56695.48
13	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
14	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
15	C&R panel for 33 KV Transformer with Diff. Protection	No	1	133331.44	133331.44
16	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
17	33 kV Pin Insulators with G.I. Pins	Nos	12	541.38	6496.53
18	Structure for 33 KV CT & PT as per Sheet no.3	No	2	47173.08	94346.15
19	G.I.Nut Bolts	KG	150	82.89	12433.39
B	**11 KV SIDE**				
20	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	1108356.46	2216712.92
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	335788.63	671577.25
22	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
23	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
24	Clamps and Connectors as per Sheet no.5	No.	1	251351.40	251351.40
25	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	287727.63	575455.27
26	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	197901.30	197901.30
29	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
30	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

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D	**Cost of material**			**14691048.36**
1	Transportation on material	4.00%		587642
2	T&P on material cost	1.00%		146910
3	Contigencies on material	0.50%		73455
5	Erection cost on material	5.00%		734552
6	Contractor supervision charges on material	5.00%		734552
7	Insurance , Labour & Finance Cost	2.50%		367276
	Service Cost			**2644389**
	Sub-Total			**17335437**
8	Turnkey Charges	4.00%		693417
	Total			**18028855**
9	Civil Works As per Sheet 'C'	No.	1	5988002
	Total Cost of Estimate			**24016857**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	22979738	18028855
Civil Works As per Sheet 'C'	7632360	5988002
Total Cost of the Estimate	30612098	24016857

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45587.00	47592.83
				Total:	**183259.74**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
9	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
10	Earthing Sets H.T	Sets	3	335.51	1006.53
11	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
12	AAAC 100 mm2	Rmt.	150	50.80	7620.00
13	AAAC 232 mm2	Rmt.	150	124.91	18736.50
14	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
15	G.I.Nut Bolts	Kg.	50	82.89	4144.46
16	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
17	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
d)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
18	Miscelleneous material	LS	1	450.00	450.00
				Total:	**335788.63**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	**251351.40**

Sheet No- 6

Cost data for structure of 11 kV Main Bus at1x5 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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	Strain Hardware for AAAC232 sq.mm.	Nos.	37	602.56	22294.72
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	AAAC 232 mm2	Rmt.	150	124.91	18736.50
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	G.I.Nut Bolts	Kg.	50	82.89	4144.46
15	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	12	558.59	6703.10
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
18	Miscelleneous material	LS	1	450.00	450.00
				Total:	**287727.63**

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Sheet No.7

Cost data for Yard Lighting of 2X 5 MVA1x5 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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

Sheet No.8

Cost data for 100 KVA, 11/0.43 KV Station Transformer for1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840.00	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D)	298243.50	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.50	
8	Metal Spreading (As per table F)	130945.00	
9	Foundations for structures and equipments (for 2 t/f bays)	845159.00	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.02**	

MSEDCL

Item Code No. 0101A					
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 Lightning Arrestors (Station type)	Set	2	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	RSJ 125x70, 8 m long	Nos	8	4591.00	36728.00
6	MS Channel 100x50x6 mm	Kg.	1650	50.78	83787.00
7	M.S. Angel(75 X 40 mm)	Kg.	100	50.78	5078.00
8	M.S. Flats(50 X 10mm)	Kg.	80	47.55	3804.00
9	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
12	Earthing complete as per Sheet no.1	Set	1	234229.08	234229.08
13	Power Transformer 33/11 KV, 5 MVA	No	1	3129000.00	3129000.00
14	33 KV P.T.	Nos	3	18898.49	56695.48
15	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
18	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	47173.08	47173.08
20	G.I.Nut Bolts	KG	150	82.89	12433.39
22	Marshalling Box	Nos.	1	4200.00	4200.00
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	1108356.46	1108356.46
22	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
23	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	248220.70	248220.70
24	11 kV Pin Insulators with G.I. Pins	No.	12	135.11	1621.26
25	Clamps and Connectors as per Sheet no.4	No.	1	189486.90	189486.90
26	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	190857.13	190857.13
27	S/S Yard lighting as per Sheet no.6	No.	1	143596.86	143596.86
28	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
29	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	195504.70	195504.70
30	Control cables for S/S as per Sheet no.8	No.	1	88206.10	88206.10
31	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

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	Cost of material			**6452376.05**
1	Transportation on material	4.00%		258095
2	T&P on material cost	1.00%		64524
3	Contigencies on material	0.50%		32262
5	Erection cost on material	5.00%		322619
6	Contractor supervision charges on material	5.00%		322619
7	Insurance , Labour & Finance Cost	2.50%		161309
	Service Cost			**1161428**
	Sub-Total			**7613804**
8	Turnkey Charges	4.00%		304552
	Total			**7918356**
9	Civil Works As per Sheet 'C'	No.	1	5565423
	Total Cost of Estimate			**13483778**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	10092807	7918356
Civil Works As per Sheet 'C'	7093737	5565423
Total Cost of the Estimate	17186544	13483778

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**248220.70**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**189486.90**

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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	4591.00	36728.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**190857.13**

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	3060.00	36720.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cmt	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**143596.86**

MSEDCL

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**195504.70**

Sheet No.8

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840.00	260721.45
2	Control room (As per table B) outdoor	1958424.32	#N/A
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	453297.18
4	Sanitory Water supply	0.00	0.00
5	Electrification (Lumsum)	100000.00	108979.42
6	WBM Road (As per table D)	298243.50	227543.00
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.50	850422.61
8	Metal Spreading (As per table F)	130945.00	121034.70
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	422579.50	530744
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	45258.14
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	67900.69
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	261413.76
13	Construction of retaining wall. (As per table K)	647484.00	599523.78
	Total=	**5565422.52**	

MSEDCL

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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	RSJ 125x70, 8 m long	Nos	8	4591.00	36728.00
6	MS Channel 100x50x6 mm	Kg.	1650	50.78	83787.00
7	M.S. Angel(75 X 40 mm)	Kg.	100	50.78	5078.00
8	M.S. Flats(50 X 10mm)	Kg.	80	47.55	3804.00
9	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
12	Earthing complete as per Sheet no.1	Set	1	259367.68	259367.68
13	Power Transformer 33/11 KV, 10 MVA	No	1	5233333.00	5233333.00
14	33 KV P.T.	Nos	3	18898.49	56695.48
15	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
17	C&R panel for 33 KV Transformer with Diff. Protection	No	1	133331.44	133331.44
18	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	47173.08	47173.08
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
22	Marshalling Box	Nos.	1	4200.00	4200.00
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	1	1108356.46	1108356.46
23	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	319461.67	319461.67
25	11 kV Pin Insulators with G.I. Pins	No.	12	135.11	1621.26
26	Clamps and Connectors as per Sheet no.4	No.	1	189486.90	189486.90
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	243512.21	243512.21
28	S/S Yard lighting as per Sheet no.6	No.	1	143596.86	143596.86
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	197901.30	197901.30
31	Control cables for S/S as per Sheet no.8	No.	1	88206.10	88206.10
32	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

D	**Cost of material**			**8789022.00**
1	Transportation on material	4.00%		351561
2	T&P on material cost	1.00%		87890
3	Contigencies on material	0.50%		43945
5	Erection cost on material	5.00%		439451
6	Contractor supervision charges on material	5.00%		439451
7	Insurance , Labour & Finance Cost	2.50%		219726
	Service Cost			**1582024**
	Sub-Total			**10371046**
8	Turnkey Charges	4.00%		414842
	Total			**10785888**
9	Civil Works As per Sheet 'C'	No.	1	5565423
	Total Cost of Estimate			**16351310**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	13747788	10785888
Civil Works As per Sheet 'C'	7093737	5565423
Total Cost of the Estimate	20841525	16351310

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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	48.20	96400.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1400	5.54	7756.00
4	Salt	Kg.	1400	6.00	8400.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**259367.68**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**319461.67**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**189486.90**

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	4591.00	36728.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**243512.21**

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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	3060.00	36720.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cmt	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**143596.86**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	422579.5	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5565422.524**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No.0103A					
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 Lightning Arrestors (Station type)	Set	4	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	46750.00	233750.00
4	33 KV Post Insulator	Nos	6	917.65	5505.93
5	RSJ 125x70, 8 m long	Nos	16	4591.00	73456.00
6	MS Channel 100x50x6 mm	Kg.	3300	50.78	167574.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	50.78	10156.00
8	M.S. Flats(50 X 10mm)	Kg.	160	47.55	7608.00
9	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
12	Earthing complete as per Sheet no.1	Set	2	234229.08	468458.15
13	Power Transformer 33/11 KV, 5 MVA	No	2	3129000.00	6258000.00
14	33 KV P.T.	Nos	3	18898.49	56695.48
15	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56649.73	113299.46
18	33 kV Pin Insulators with G.I. Pins	Nos	12	541.38	6496.53
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	47173.08	94346.15
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Fire Extinguisher with stand	Set	L.S	4200.00	4000.00
22	Marshalling Box	Nos.	2	4200.00	8400.00
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	1108356.46	2216712.92
23	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	266366.70	532733.40
24	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
25	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
26	Clamps and Connectors as per Sheet no.4	No.	1	251351.40	251351.40
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	190857.13	381714.27
28	S/S Yard lighting as per Sheet no.6	No.	1	162532.00	162532.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	197901.30	197901.30
31	Control cables for S/S as per Sheet no.8	No.	1	178665.20	178665.20
32	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

D	**Cost of material**			**12265383.06**
1	Transportation on material	4.00%		490615
2	T&P on material cost	1.00%		122654
3	Contigencies on material	0.50%		61327
5	Erection cost on material	5.00%		613269
6	Contractor supervision charges on material	5.00%		613269
7	Insurance , Labour & Finance Cost	2.50%		306635
	Service Cost			**2207769**
	Sub-Total			**14473152**
8	Turnkey Charges	4.00%		578926
	Total			**15052078**
9	Civil Works As per Sheet 'C'	No.	1	5988002
	Total Cost of Estimate			**21040080**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	19185512	15052078
Civil Works As per Sheet 'C'	7632360	5988002
Total Cost of the Estimate	26817873	21040080

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**266366.70**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	**251351.40**

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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	4591.00	36728.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**190857.13**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

Sheet No.8

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

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Item Code No. 0104A					
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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	46750.00	233750.00
4	33 KV Post Insulator	Nos	6	917.65	5505.93
5	RSJ 125x70, 8 m long	Nos	16	4591.00	73456.00
6	MS Channel 100x50x6 mm	Kg.	3300	50.78	167574.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	50.78	10156.00
8	M.S. Flats(50 X 10mm)	Kg.	160	47.55	7608.00
9	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
12	Earthing complete as per Sheet no.1	Set	2	234229.08	468458.15
13	Power Transformer 33/11 KV, 10 MVA	No	2	5233333.00	10466666.00
14	33 KV P.T.	Nos	3	18898.49	56695.48
15	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
17	C&R panel for 33 KV Transformer with Diff. Protection	No	2	133331.44	266662.88
18	33 kV Pin Insulators with G.I. Pins	Nos	12	541.38	6496.53
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	47173.08	94346.15
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Fire Extinguisher with stand	Set	L.S	4200.00	4000.00
22	Marshalling Box	Nos.	4	4200.00	16800.00
B	**11 KV SIDE**				
23	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	1108356.46	2216712.92
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	337607.67	675215.33
25	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
26	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
27	Clamps and Connectors as per Sheet no.4	No.	1	251351.40	251351.40
28	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	243512.21	487024.42
29	S/S Yard lighting as per Sheet no.6	No.	1	162532.00	162532.00
30	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
31	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	197901.30	197901.30
32	Control cables for S/S as per Sheet no.8	No.	1	178665.20	178665.20
33	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**16883604.56**
1	Transportation on material	4.00%			675344
2	T&P on material cost	1.00%			168836
3	Contigencies on material	0.50%			84418
5	Erection cost on material	5.00%			844180
6	Contractor supervision charges on material	5.00%			844180
7	Insurance , Labour & Finance Cost	2.50%			422090
	Service Cost				**3039049**
	Sub-Total				**19922653**
8	Turnkey Charges	4.00%			796906
	Total				**20719560**
9	Civil Works As per Sheet 'C'	No.	1		5988002
	Total Cost of Estimate				**26707562**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	26409334	20719560
Civil Works As per Sheet 'C'	7632360	5988002
Total Cost of the Estimate	34041695	26707562

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**337607.67**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
		Total:			**251351.40**

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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	4591.00	36728.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**243512.21**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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Sheet No.8

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0105A					
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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	46750.00	233750.00
4	33 KV Post Insulator	Nos	6	917.65	5505.93
5	RSJ 125x70, 8 m long	Nos	16	4591.00	73456.00
6	MS Channel 100x50x6 mm	Kg.	3300	50.78	167574.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	50.78	10156.00
8	M.S. Flats(50 X 10mm)	Kg.	160	47.55	7608.00
9	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
12	Earthing complete as per Sheet no.1	Set	2	234229.08	468458.15
13	Power Transformer 33/11 KV, 5 MVA	No	1	3129000.00	3129000.00
14	Power Transformer 33/11 KV, 10 MVA	No	1	5233333.00	5233333.00
15	33 KV P.T.	Nos	3	18898.49	56695.48
16	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
17	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
18	C&R panel for 33 KV Transformer with Diff. Protection	No	1	133331.44	133331.44
19	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
20	33 kV Pin Insulators with G.I. Pins	Nos	12	541.38	6496.53
21	Structure for 33 KV CT & PT as per Sheet no.2	No	2	47173.08	94346.15
22	G.I.Nut Bolts	KG	150	82.89	12433.39
23	Fire Extinguisher with stand	Set	L.S	4200.00	4000.00
B	**11 KV SIDE**				
24	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	1108356.46	2216712.92
25	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	335788.63	671577.25
26	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
27	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
28	Clamps and Connectors as per Sheet no.4	No.	1	287079.24	287079.24
29	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	269415.07	538830.15
30	S/S Yard lighting as per Sheet no.6	No.	1	162532.00	162532.00
31	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
32	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	197901.30	197901.30
33	Control cables for S/S as per Sheet no.8	No.	1	178665.20	178665.20
34	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

D	**Cost of material**			**14769685.34**
1	Transportation on material	4.00%		590787
2	T&P on material cost	1.00%		147697
3	Contigencies on material	0.50%		73848
5	Erection cost on material	5.00%		738484
6	Contractor supervision charges on material	5.00%		738484
7	Insurance , Labour & Finance Cost	2.50%		369242
	Service Cost			**2658543**
	Sub-Total			**17428229**
8	Turnkey Charges	4.00%		697129
	Total			**18125358**
8	Civil Works As per Sheet 'C'	No.	1	5988002
	Total Cost of Estimate			**24113360**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	23102742	18125358
Civil Works As per Sheet 'C'	7632360	5988002
Total Cost of the Estimate	30735102	24113360

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
9	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
10	Earthing Sets H.T	Sets	3	335.51	1006.53
11	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
12	AAAC 232 mm2	Rmt.	150	124.91	18736.50
13	AAAC 100 mm2	Rmt.	150	50.80	7620.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	G.I.Nut Bolts	Kg.	50	82.89	4144.46
15	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
16	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
b)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
19	Miscelleneous material	LS	1	450.00	450.00
				Total:	**335788.63**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	36	992.44	35727.84
3	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
4	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
5	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
6	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
7	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	**287079.24**

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Sheet No- 5

Cost data for structure of 11 kV Main Bus at1x5 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	4591.00	36728.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	AAAC 100 mm2	Rmt.	150	50.80	7620.00
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	G.I.Nut Bolts	Kg.	50	82.89	4144.46
15	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
b)	DOG TO DOG or equivalent AAAC	Nos.	12	558.59	6703.10
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**269415.07**

Sheet No.6

Cost data for Yard Lighting of 2X 5 MVA1x5 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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

Sheet No.7

Cost data for 100 KVA, 11/0.43 KV Station Transformer for1x5 MVA & 1x10 MVA 33/11 KV S/S

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	MS Channel 100x50x6 mm	Kg.	290	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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Sheet No.8

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

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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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1.00	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3.00	46750.00	140250.00
4	33 KV Post Insulator	No	3.00	917.65	2752.96
5	Disc Insulator 11 KV 7000 KG.	No	18.00	344.48	6200.64
6	AAAC 232 mm2	Rmt	200.00	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Set	6.00	602.56	3615.36
8	Power Transformer 33/22 KV 5 MVA	No	1.00	3243667.00	3243667.00
9	33 KV P.T.	No	3.00	18898.49	56695.48
10	33 kV C. T. (400-200/1-1-1)	No	3.00	25250.00	75750.00
11	33 KV VCB complete 1600 Amp (O.D.)	No	1.00	180000.00	180000.00
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	1.00	133331.44	133331.44
13	Control C&R Panel 22 KV for feeder with accessories.	Set	1	75554.23	75554.23
14	33 kV Pin Insulators with G.I. Pins	No	6.00	541.38	3248.26
15	G.I.Nut Bolts	Kg	150.00	82.89	12433.39
16	Marshalling Box	No	2.00	4200.00	8400.00
17	Gantry Structure/Steel section for 33 KV Bus as per **Table No.1**	Nos	1.00	114241.02	114241.02
18	Earthing complete as per **Table No.2**	Set	1.00	429509.35	429509.35
19	Structure for 33 KV CT & PT as per **Table No.3**	No	1.00	47173.08	47173.08
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	1678894.84	1678894.84
21	22 KV Lightning Arrestors (Station type)	Set	1.00	11467.00	11467.00
22	22 kV Pin Insulators with G.I. Pins	No	12.00	335.98	4031.71
23	AC Distribution Board 'B' type	No	1.00	25660.96	25660.96
24	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	70000.00	70000.00
25	Take off structure for 3 outgoing feeder as per **Table No.4**	No.	1.00	287559.97	287559.97
26	Clamps and Connectors as per **TableNo.5**	No.	1.00	189486.90	189486.90
27	Structure for 22 KV Main Bus as per **Table No.6**	No.	1.00	236956.41	236956.41
28	S/S Yard lighting as per **Table No.7**	No.	1.00	162532.00	162532.00
29	22/0.43 KV x 100 KVA station Transformer as per **Table No.8.**	No.	1.00	290326.52	290326.52
30	Control cables for S/S as per **Table No.9**	No.	1.00	178665.20	178665.20
	Cost of material				**7776573.73**

1	Transportation on material	4.00%		311063
2	T&P on material cost	1.00%		77766
3	Contigencies on material	0.50%		38883
5	Erection cost on material	5.00%		388829
6	Contractor supervision charges on material	5.00%		388829
7	Insurance , Labour & Finance Cost	2.50%		194414
	Service Cost			**1399783**
	Sub-Total			**9176357**
8	Turnkey Charges	4.00%		367054
	Total			**9543411**
9	Civil Works As per Sheet 'C'	No.	1	5565423
	Total Cost of Estimate			**15108834**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	12164117	9543411
Civil Works As per Sheet 'C'	7093737	5565423
Total Cost of the Estimate	19257854	15108834

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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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

Sheet No.2

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.	2500	48.20	120500.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	44	6638.26	292083.35
3	Coal	Kg.	1400	5.54	7756.00
4	Salt	Kg.	1400	6.00	8400.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**429509.35**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

Sheet No : 4

Cost data for Take off structure for 22 KV Feeders 3 outlets at 1x 5 MVA,33/22KV Sub Stn. (Outdoor)

Sr.No.	Description of material	Unit	Qty.	Rate	Amount
1	RSJ 116x100, 9 m long	Nos.	6	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	22KV A.B.Switch	Nos.	3	12050.00	36150.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	72	344.48	24802.56
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	321.66	3859.92
8	22 kV Pin Insulators with G.I. Pins	Nos.	9	335.98	3023.78
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	22 KV Lightning Arrestors (Screw type)	Sets	3	8400.00	25200.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**287559.97**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
		Total:			**189486.90**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	72	344.48	24802.56
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	321.66	3859.92
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	335.98	3023.78
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	22 KV Lightning Arrestors (Screw type)	Sets	3	8400.00	25200.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**236956.41**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist.transformer 100kva,22/0.4kv	No.	1	183000.00	183000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	22KV A.B.Switch	Set	1	12050.00	12050.00
7	22KV H.G.Fuses	Nos.	1	4050.00	4050.00
8	22 KV Lightning Arrestors (Screw type)	Set	1	8400.00	8400.00
9	22 kV Pin Insulators with G.I. Pins	Nos.	6	335.98	2015.85
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**290326.52**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	422579.5	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5565422.524**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1.00	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3.00	46750.00	140250.00
4	33 KV Post Insulator	No	3.00	917.65	2752.96
5	Disc Insulator 11 KV 7000 KG.	No	18.00	344.48	6200.64
6	AAAC 232 mm2	Rmt	200.00	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Set	6.00	602.56	3615.36
8	Power Transformer 33/22 KV 10 MVA	No	1.00	5330000.00	5330000.00
9	33 KV P.T.	No	3.00	18898.49	56695.48
10	33 kV C. T. (400-200/1-1-1)	No	3.00	25250.00	75750.00
11	33 KV VCB complete 1600 Amp (O.D.)	No	1.00	180000.00	180000.00
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	1.00	133331.44	133331.44
13	33 kV Pin Insulators with G.I. Pins	No	6.00	541.38	3248.26
14	G.I.Nut Bolts	Kg	150.00	82.89	12433.39
15	Marshalling Box	No	2.00	4200.00	8400.00
16	Gantry Structure/Steel section for 33 KV Bus as per **Table No.1**	Nos	1.00	114241.02	114241.02
17	Earthing complete as per **Table No.2**	Set	1.00	429509.35	429509.35
18	Structure for 33 KV CT & PT as per **Table No.3**	No	1.00	47173.08	47173.08
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	1678894.84	1678894.84
21	22 KV Lightning Arrestors (Station type)	Set	1.00	11467.00	11467.00
22	22 kV Pin Insulators with G.I. Pins	No	12.00	335.98	4031.71
23	22 KV C.T. Three core.	No	3.00	24964.00	74892.00
24	AC Distribution Board 'B' type	No	1.00	25660.96	25660.96
25	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	70000.00	70000.00
26	Take off structure for 3 outgoing feeder as per **Table No.4**	No.	1.00	287559.97	287559.97
27	Clamps and Connectors as per **TableNo.5**	No.	1.00	189486.90	189486.90
28	Structure for 22 KV Main Bus as per **Table No.6**	No.	1.00	236956.41	236956.41
29	S/S Yard lighting as per **Table No.7**	No.	1.00	162532.00	162532.00
30	22/0.43 KV x 100 KVA station Transformer as per **Table No.8.**	No.	1.00	290326.52	290326.52
31	Control cables for S/S as per **Table No.9**	No.	1.00	178665.20	178665.20
	Cost of material				**9862244.50**

1	Transportation on material	4.00%		394490
2	T&P on material cost	1.00%		98622
3	Contigencies on material	0.50%		49311
5	Erection cost on material	5.00%		493112
6	Contractor supervision charges on material	5.00%		493112
7	Insurance , Labour & Finance Cost	2.50%		246556
	Service Cost			**1775204**
	Sub-Total			**11637449**
8	Turnkey Charges	4.00%		465498
	Total			**12102946**
9	Civil Works As per Sheet 'C'	No.	1	5565423
	Total Cost of Estimate			**17668369**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	15426523	12102946
Civil Works As per Sheet 'C'	7093737	5565423
Total Cost of the Estimate	22520260	17668369

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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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

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	48.20	120500.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	44	6638.26	292083.35
3	Coal	Kg.	1400	5.54	7756.00
4	Salt	Kg.	1400	6.00	8400.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**429509.35**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	22KV A.B.Switch	Nos.	3	12050.00	36150.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	72	344.48	24802.56
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	321.66	3859.92
8	22 kV Pin Insulators with G.I. Pins	Nos.	9	335.98	3023.78
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	22 KV Lightning Arrestors (Screw type)	Sets	3	8400.00	25200.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**287559.97**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
		Total:			**189486.90**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	72	344.48	24802.56
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	321.66	3859.92
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	335.98	3023.78
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	22 KV Lightning Arrestors (Screw type)	Sets	3	8400.00	25200.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**236956.41**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist.transformer 100kva,22/0.4kv	No.	1	183000.00	183000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	22KV A.B.Switch	Set	1	12050.00	12050.00
7	22KV H.G.Fuses	Nos.	1	4050.00	4050.00
8	22 KV Lightning Arrestors (Screw type)	Set	1	8400.00	8400.00
9	22 kV Pin Insulators with G.I. Pins	Nos.	6	335.98	2015.85
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**290326.52**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	422579.5	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5565422.524**	

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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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2.00	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5.00	46750.00	233750.00
4	33 KV Post Insulator	No	6.00	917.65	5505.93
5	Disc Insulator 11 KV 7000 KG.	No	36.00	344.48	12401.28
6	AAAC 232 mm2	Rmt	200.00	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Set	12.00	602.56	7230.72
8	Power Transformer 33/22 KV 5 MVA	No	2.00	3243667.00	6487334.00
9	33 KV P.T.	No	3.00	18898.49	56695.48
10	33 kV C. T. (400-200/1-1-1)	No	6.00	25250.00	151500.00
11	33 KV VCB complete 1600 Amp (O.D.)	No	2.00	180000.00	360000.00
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	2.00	133331.44	266662.88
13	Control C&R Panel 22 KV for feeder with accessories.	Set	1	75554.23	75554.23
14	33 kV Pin Insulators with G.I. Pins	No	12.00	541.38	6496.53
15	G.I.Nut Bolts	Kg	150.00	82.89	12433.39
16	Marshalling Box	No	5.00	4200.00	21000.00
17	Gantry Structure/Steel section for 33 KV Bus as per **Table No.1**	Nos	1.00	183259.74	183259.74
18	Earthing complete as per **Table No.2**	Set	2.00	234229.08	468458.15
19	Structure for 33 KV CT & PT as per **Table No.3**	No	2.00	47173.08	94346.15
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	1678894.84	3357789.69
21	22 KV Lightning Arrestors (Station type)	Set	2.00	11467.00	22934.00
22	22 kV Pin Insulators with G.I. Pins	No	24.00	335.98	8063.41
23	AC Distribution Board 'B' type	No	1.00	25660.96	25660.96
24	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	70000.00	70000.00
25	Take off structure for 3 outgoing feeder as per **Table No.4**	No.	2.00	305705.97	611411.95
26	Clamps and Connectors as per **TableNo.5**	No.	1.00	251351.40	251351.40
27	Structure for 22 KV Main Bus as per **Table No.6**	No.	2.00	236956.41	473912.81
28	S/S Yard lighting as per **Table No.7**	No.	1.00	162532.00	162532.00
29	22/0.43 KV x 100 KVA station Transformer as per **Table No.8.**	No.	1.00	290326.52	290326.52
30	Control cables for S/S as per **Table No.9**	No.	2.00	178665.20	357330.40
D	**Cost of material**				**14265299.62**
1	Transportation on material	4.00%			570612
2	T&P on material cost	1.00%			142653
3	Contigencies on material	0.50%			71326
5	Erection cost on material	5.00%			713265
6	Contractor supervision charges on material	5.00%			713265
7	Insurance , Labour & Finance Cost	2.50%			356632
	Service Cost				**2567754**
	Sub-Total				**16833054**
8	Turnkey Charges	4.00%			673322
	Total				**17506376**
9	Civil Works As per Sheet 'C'	No.	1		5988002
	Total Cost of Estimate				**23494378**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	22313782	17506376
Civil Works As per Sheet 'C'	7632360	5988002
Total Cost of the Estimate	29946142	23494378

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45587.00	47592.83
				Total:	**183259.74**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	22KV A.B.Switch	Nos.	3	12050.00	36150.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	72	344.48	24802.56
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	321.66	3859.92
8	22 kV Pin Insulators with G.I. Pins	Nos.	9	335.98	3023.78
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	22 KV Lightning Arrestors (Screw type)	Sets	3	8400.00	25200.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**305705.97**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
		Total:			**251351.40**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	72	344.48	24802.56
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	321.66	3859.92
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	335.98	3023.78
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	22 KV Lightning Arrestors (Screw type)	Sets	3	8400.00	25200.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**236956.41**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist.transformer 100kva,22/0.4kv	No.	1	183000.00	183000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	22KV A.B.Switch	Set	1	12050.00	12050.00
7	22KV H.G.Fuses	Nos.	1	4050.00	4050.00
8	22 KV Lightning Arrestors (Screw type)	Set	1	8400.00	8400.00
9	22 kV Pin Insulators with G.I. Pins	Nos.	6	335.98	2015.85
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**290326.52**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

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Item Code No. 0104B					
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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2.00	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5.00	46750.00	233750.00
4	33 KV Post Insulator	No	6.00	917.65	5505.93
5	Disc Insulator 11 KV 7000 KG.	No	36.00	344.48	12401.28
6	AAAC 232 mm2	Rmt	200.00	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Set	12.00	602.56	7230.72
8	Power Transformer 33/22 KV 10 MVA	No	2.00	5330000.00	10660000.00
9	33 KV P.T.	No	3.00	18898.49	56695.48
10	33 kV C. T. (400-200/1-1-1)	No	6.00	25250.00	151500.00
11	33 KV VCB complete 1600 Amp (O.D.)	No	2.00	180000.00	360000.00
12	C&R panel for 33 KV Transformer with Diff. Protection	Set	2.00	133331.44	266662.88
13	Control C&R Panel 22 KV for feeder with accessories.	Set	1	75554.23	75554.23
14	33 kV Pin Insulators with G.I. Pins	No	12.00	541.38	6496.53
15	G.I.Nut Bolts	Kg	150.00	82.89	12433.39
16	Marshalling Box	No	5.00	4200.00	21000.00
17	Gantry Structure/Steel section for 33 KV Bus as per **Table No.1**	Nos	1.00	183259.74	183259.74
18	Earthing complete as per **Table No.2**	Set	2.00	234229.08	468458.15
19	Structure for 33 KV CT & PT as per **Table No.3**	No	2.00	47173.08	94346.15
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	1678894.84	3357789.69
21	22 KV Lightning Arrestors (Station type)	Set	2.00	11467.00	22934.00
22	22 kV Pin Insulators with G.I. Pins	No	24.00	335.98	8063.41
23	AC Distribution Board 'B' type	No	1.00	25660.96	25660.96
24	Battery set 30 Volt, 100 AH with Battery charger	Set	1.00	70000.00	70000.00
25	Take off structure for 3 outgoing feeder as per **Table No.4**	No.	2.00	305705.97	611411.95
26	Clamps and Connectors as per **TableNo.5**	No.	1.00	251351.40	251351.40
27	Structure for 22 KV Main Bus as per **Table No.6**	No.	2.00	236956.41	473912.81
28	S/S Yard lighting as per **Table No.7**	No.	1.00	162532.00	162532.00
29	22/0.43 KV x 100 KVA station Transformer as per **Table No.8.**	No.	1.00	290326.52	290326.52
30	Control cables for S/S as per **Table No.9**	No.	2.00	178665.20	357330.40
D	**Cost of material**				**18437965.62**
1	Transportation on material	4.00%			737519
2	T&P on material cost	1.00%			184380
3	Contigencies on material	0.50%			92190
5	Erection cost on material	5.00%			921898
6	Contractor supervision charges on material	5.00%			921898
7	Insurance , Labour & Finance Cost	2.50%			460949
	Service Cost				**3318834**
	Sub-Total				**21756799**
8	Turnkey Charges	4.00%			870272
	Total				**22627071**
9	Civil Works As per Sheet 'C'	No.	1		5988002
	Total Cost of Estimate				**28615073**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	28840666	22627071
Civil Works As per Sheet 'C'	7632360	5988002
Total Cost of the Estimate	36473026	28615073

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45587.00	47592.83
				Total:	**183259.74**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	22KV A.B.Switch	Nos.	3	12050.00	36150.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	72	344.48	24802.56
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	321.66	3859.92
8	22 kV Pin Insulators with G.I. Pins	Nos.	9	335.98	3023.78
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	22 KV Lightning Arrestors (Screw type)	Sets	3	8400.00	25200.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**305705.97**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
		Total:			**251351.40**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	72	344.48	24802.56
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	12	321.66	3859.92
7	22 kV Pin Insulators with G.I. Pins	Nos.	9	335.98	3023.78
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	22 KV Lightning Arrestors (Screw type)	Sets	3	8400.00	25200.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**236956.41**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist.transformer 100kva,22/0.4kv	No.	1	183000.00	183000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	22KV A.B.Switch	Set	1	12050.00	12050.00
7	22KV H.G.Fuses	Nos.	1	4050.00	4050.00
8	22 KV Lightning Arrestors (Screw type)	Set	1	8400.00	8400.00
9	22 kV Pin Insulators with G.I. Pins	Nos.	6	335.98	2015.85
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**290326.52**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

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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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
6	AAAC 232 mm2	MTR	200	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
8	Earthing complete as per Sheet no.2	Set	1	256234.08	256234.08
9	Power Transformer 33/11 KV, 5 MVA	No	1	3129000.00	3129000.00
10	33 KV P.T.	Nos	3	18898.49	56695.48
11	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
14	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
15	Structure for 33 KV CT & PT as per Sheet no.3	No	1	47173.08	47173.08
16	G.I.Nut Bolts	KG	150	82.89	12433.39
17	Gantry Structure/Steel section for 33 KV Bus as per **Table No.1**	Nos	1.00	114241.02	114241.02
18	Marshalling Box	No.	1	4200.00	4200.00
B	**11 KV SIDE**				
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1639051.62	1639051.62
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1130.43	339129.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1661.61	6646.44
22	Clamps and Connectors as per Sheet no.4	No.	1	273289.14	273289.14
23	S/S Yard lighting as per Sheet no.5	No.	1	159346.86	159346.86
24	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
25	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	194051.30	194051.30
26	Control cables for S/S as per Sheet no.7	No.	1	88206.10	88206.10
27	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**6991995.41**
1	Transportation on material	4.00%			279680
2	T&P on material cost	1.00%			69920
3	Contigencies on material	0.50%			34960
5	Erection cost on material	5.00%			349600
6	Contractor supervision charges on material	5.00%			349600
7	Insurance , Labour & Finance Cost	2.50%			174800
	Service Cost				**1258559**
	Sub-Total				**8250555**
8	Turnkey Charges	4.00%			330022
	Total				**8580577**
9	Civil Works As per Sheet 'C'	No.	1		5549216
	Total Cost of Estimate				**14129793**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	10936879	8580577
Civil Works As per Sheet 'C'	7073080	5549216
Total Cost of the Estimate	18009959	14129793

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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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

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	61.55	92325.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2750.00	2750.00
				Total:	**256234.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**273289.14**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cum	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**159346.86**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) Hybrid	129568	
2	Control room (As per table B) Hybrid	3330411.052	
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D) Hybrid	149814.5	
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	607002.415	
8	Metal Spreading (As per table F) Hybrid	130745	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) Hybrid	348665.8	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I) Hybrid	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	285085.26	
13	Construction of retaining wall. (As per table K) Hybrid	345788.00	
	Total=	**5549216.031**	

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Item Code No.0102C					
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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
6	AAAC 232 mm2	MTR	200	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
8	Earthing complete as per Sheet no.2	Set	1	256234.08	256234.08
9	Power Transformer 33/11 KV, 10 MVA	No	1	5233333.00	5233333.00
10	33 KV P.T.	Nos	3	18898.49	56695.48
11	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
14	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
15	Structure for 33 KV CT & PT as per Sheet no.3	No	1	47173.08	47173.08
16	G.I.Nut Bolts	KG	150	82.89	12433.39
17	Gantry Structure/Steel section for 33 KV Bus as per **Table No.1**	Nos	1.00	114241.02	114241.02
18	Marshalling Box	No.	1	4200.00	4200.00
B	**11 KV SIDE**				
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1639051.62	1639051.62
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1130.43	339129.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1661.61	6646.44
22	Clamps and Connectors as per Sheet no.4	No.	1	390606.90	390606.90
23	S/S Yard lighting as per Sheet no.5	No.	1	159346.86	159346.86
24	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
25	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	194051.30	194051.30
26	Control cables for S/S as per Sheet no.7	No.	1	88206.10	88206.10
27	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**9213646.17**
1	Transportation on material	4.00%			368546
2	T&P on material cost	1.00%			92136
3	Contigencies on material	0.50%			46068
5	Erection cost on material	5.00%			460682
6	Contractor supervision charges on material	5.00%			460682
7	Insurance , Labour & Finance Cost	2.50%			230341
	Service Cost				**1658456**
	Sub-Total				**10872102**
8	Turnkey Charges	4.00%			434884
	Total				**11306987**
9	Civil Works As per Sheet 'C'	No.	1		5549216
	Total Cost of Estimate				**16856203**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	14411985	11306987
Civil Works As per Sheet 'C'	7073080	5549216
Total Cost of the Estimate	21485065	16856203

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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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

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	61.55	92325.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2750.00	2750.00
				Total:	**256234.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	**390606.90**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cum	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**159346.86**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) Hybrid	129568	
2	Control room (As per table B) Hybrid	3330411.052	
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D) Hybrid	149814.5	
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	607002.415	
8	Metal Spreading (As per table F) Hybrid	130745	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) Hybrid	348665.8	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I) Hybrid	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	285085.26	
13	Construction of retaining wall. (As per table K) Hybrid	345788.00	
	Total=	**5549216.031**	

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Item Code No.0103C					
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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	46750.00	233750.00
4	33 KV Post Insulator	Nos	6	917.65	5505.93
5	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
6	AAAC 232 mm2	MTR	200	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
8	Earthing complete as per Sheet no.2	Set	2	234229.08	468458.15
9	Power Transformer 33/11 KV, 5 MVA	No	2	3129000.00	6258000.00
10	33 KV P.T.	Nos	3	18898.49	56695.48
11	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56649.73	113299.46
14	33 kV Pin Insulators with G.I. Pins	Nos	12	541.38	6496.53
15	Structure for 33 KV CT & PT as per Sheet no.3	No	2	47173.08	94346.15
16	G.I.Nut Bolts	KG	150	82.89	12433.39
17	Gantry Structure/Steel section for 33 KV Bus as per **Table No.1**	Nos	1.00	183259.74	183259.74
19	Marshalling Box	No.	2	4200.00	8400.00
B	**11 KV SIDE**				
20	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3005005.74	3005005.74
21	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1130.43	678258.00
22	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1661.61	13292.88
23	Clamps and Connectors as per Sheet no.4	No.	1	452471.40	452471.40
24	S/S Yard lighting as per Sheet no.5	No.	1	162532.00	162532.00
25	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
26	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	194051.30	194051.30
27	Control cables for S/S as per Sheet no.7	No.	1	178665.20	178665.20
28	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**12943072.32**
1	Transportation on material	4.00%			517723
2	T&P on material cost	1.00%			129431
3	Contigencies on material	0.50%			64715
5	Erection cost on material	5.00%			647154
6	Contractor supervision charges on material	5.00%			647154
7	Insurance , Labour & Finance Cost	2.50%			323577
	Service Cost				**2329753**
	Sub-Total				**15272825**
8	Turnkey Charges	4.00%			610913
	Total				**15883738**
9	Civil Works As per Sheet 'C'	No.	1		6045709
	Total Cost of Estimate				**21929448**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	20245554	15883738
Civil Works As per Sheet 'C'	7705915	6045709
Total Cost of the Estimate	27951468	21929448

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MSEDCL

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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45587.00	47592.83
				Total:	**183259.74**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	**452471.40**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) Hybrid	129568	
2	Control room (As per table B) Hybrid	3330411.052	
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D) Hybrid	149814.5	
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	607002.415	
8	Metal Spreading (As per table F) Hybrid	130745	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I) Hybrid	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	285085.26	
13	Construction of retaining wall. (As per table K) Hybrid	345788.00	
	Total=	**6045709.231**	

MSEDCL

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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	46750.00	233750.00
4	33 KV Post Insulator	Nos	6	917.65	5505.93
5	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
6	AAAC 232 mm2	MTR	200	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
8	Earthing complete as per Sheet no.2	Set	2	234229.08	468458.15
9	Power Transformer 33/11 KV, 10 MVA	No	2	5233333.00	10466666.00
10	33 KV P.T.	Nos	3	18898.49	56695.48
11	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56649.73	113299.46
14	33 kV Pin Insulators with G.I. Pins	Nos	12	541.38	6496.53
15	Structure for 33 KV CT & PT as per Sheet no.3	No	2	47173.08	94346.15
16	G.I.Nut Bolts	KG	150	82.89	12433.39
17	Gantry Structure/Steel section for 33 KV Bus as per **Table No.1**	Nos	1.00	183259.74	183259.74
18	Marshalling Box	No.	2	4200.00	8400.00
B	**11 KV SIDE**				
19	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3005005.74	3005005.74
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1130.43	678258.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1661.61	13292.88
22	Clamps and Connectors as per Sheet no.4	No.	1	452471.40	452471.40
23	S/S Yard lighting as per Sheet no.5	No.	1	162532.00	162532.00
24	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
25	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	194051.30	194051.30
26	Control cables for S/S as per Sheet no.7	No.	1	178665.20	178665.20
27	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**17151738.32**
1	Transportation on material	4.00%			686070
2	T&P on material cost	1.00%			171517
3	Contigencies on material	0.50%			85759
5	Erection cost on material	5.00%			857587
6	Contractor supervision charges on material	5.00%			857587
7	Insurance , Labour & Finance Cost	2.50%			428793
	Service Cost				**3087313**
	Sub-Total				**20239051**
8	Turnkey Charges	4.00%			809562
	Total				**21048613**
9	Civil Works As per Sheet 'C'	No.	1		6045709
	Total Cost of Estimate				**27094322**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	26828749	21048613
Civil Works As per Sheet 'C'	7705915	6045709
Total Cost of the Estimate	34534664	27094322

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45587.00	47592.83
				Total:	**183259.74**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	**452471.40**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) Hybrid	129568	
2	Control room (As per table B) Hybrid	3330411.052	
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D) Hybrid	149814.5	
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	607002.415	
8	Metal Spreading (As per table F) Hybrid	130745	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I) Hybrid	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	285085.26	
13	Construction of retaining wall. (As per table K) Hybrid	345788.00	
	Total=	**6045709.231**	

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Item Code No.0101D

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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	RSJ 125x70, 8 m long	Nos	8	4591.00	36728.00
6	G.I.Channel 100x50x6mm	Kg.	1650	64.78	106887.00
7	G.I.Angle 75x40 mm	Kg.	100	64.78	6478.00
8	G.I Flat 50x10 mm	Kg.	80	61.55	4924.00
9	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
12	Earthing complete as per Sheet no.1	Set	1	256234.08	256234.08
13	Power Transformer 33/11 KV, 5 MVA	No	1	3129000.00	3129000.00
14	33 KV P.T.	Nos	3	18898.49	56695.48
15	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
18	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	47173.08	47173.08
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Marshalling Box	No.	1	4200.00	4200.00
B	**11 KV SIDE**				
22	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1639051.62	1639051.62
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1130.43	339129.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1661.61	6646.44
25	Clamps and Connectors as per Sheet no.3	No.	1	273289.14	273289.14
26	S/S Yard lighting as per Sheet no.4	No.	1	159346.86	159346.86
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	194051.30	194051.30
29	Control cables for S/S as per Sheet no.6	No.	1	88206.10	88206.10
30	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**7032771.39**
1	Transportation on material	4.00%			281311
2	T&P on material cost	1.00%			70328
3	Contigencies on material	0.50%			35164
5	Erection cost on material	5.00%			351639
6	Contractor supervision charges on material	5.00%			351639
7	Insurance , Labour & Finance Cost	2.50%			175819
	Service Cost				**1265899**
	Sub-Total				**8298670**
8	Turnkey Charges	4.00%			331947
	Total				**8630617**
9	Civil Works As per Sheet 'C'	No.	1		5549216
	Total Cost of Estimate				**14179833**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	11000661	8630617
Civil Works As per Sheet 'C'	7073080	5549216
Total Cost of the Estimate	18073741	14179833

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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	61.55	92325.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2750.00	2750.00
				Total:	**256234.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**273289.14**

MSEDCL

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cum	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**159346.86**

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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) Hybrid	129568	
2	Control room (As per table B) Hybrid	3330411.052	
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D) Hybrid	149814.5	
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	607002.415	
8	Metal Spreading (As per table F) Hybrid	130745	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) Hybrid	348665.8	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I) Hybrid	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	285085.26	
13	Construction of retaining wall. (As per table K) Hybrid	345788.00	
	Total=	**5549216.031**	

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Item Code No.0102D

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 Lightning Arrestors (Station type)	Set	2	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	RSJ 125x70, 8 m long	Nos	8	4591.00	36728.00
6	G.I.Channel 100x50x6mm	Kg.	1650	64.78	106887.00
7	G.I.Angle 75x40 mm	Kg.	100	64.78	6478.00
8	G.I Flat 50x10 mm	Kg.	80	61.55	4924.00
9	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
12	Earthing complete as per Sheet no.1	Set	1	256234.08	256234.08
13	Power Transformer 33/11 KV, 10 MVA	No	1	5233333.00	5233333.00
14	33 KV P.T.	Nos	3	18898.49	56695.48
15	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
18	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
19	Structure for 33 KV CT & PT as per Sheet no.2	No	1	47173.08	47173.08
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Marshalling Box	No.	1	4200.00	4200.00
B	**11 KV SIDE**				
22	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1639051.62	1639051.62
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1130.43	339129.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1661.61	6646.44
25	Clamps and Connectors as per Sheet no.3	No.	1	273289.14	273289.14
26	S/S Yard lighting as per Sheet no.4	No.	1	159346.86	159346.86
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	194051.30	194051.30
29	Control cables for S/S as per Sheet no.6	No.	1	88206.10	88206.10
30	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**9137104.39**
1	Transportation on material	4.00%			365484
2	T&P on material cost	1.00%			91371
3	Contigencies on material	0.50%			45686
5	Erection cost on material	5.00%			456855
6	Contractor supervision charges on material	5.00%			456855
7	Insurance , Labour & Finance Cost	2.50%			228428
	Service Cost				**1644679**
	Sub-Total				**10781783**
8	Turnkey Charges	4.00%			431271
	Total				**11213055**
9	Civil Works As per Sheet 'C'	No.	1		5549216
	Total Cost of Estimate				**16762271**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	14292259	11213055
Civil Works As per Sheet 'C'	7073080	5549216
Total Cost of the Estimate	21365339	16762271

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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	61.55	92325.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2750.00	2750.00
				Total:	**256234.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**273289.14**

MSEDCL

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cum	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**159346.86**

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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) Hybrid	129568	
2	Control room (As per table B) Hybrid	3330411.052	
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D) Hybrid	149814.5	
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	607002.415	
8	Metal Spreading (As per table F) Hybrid	130745	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) Hybrid	348665.8	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I) Hybrid	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	285085.26	
13	Construction of retaining wall. (As per table K) Hybrid	345788.00	
	Total=	**5549216.031**	

MSEDCL

Item Code No.0103D

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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	46750.00	233750.00
4	33 KV Post Insulator	Nos	6	917.65	5505.93
5	RSJ 125x70, 8 m long	Nos	16	4591.00	73456.00
6	G.I.Channel 100x50x6mm	Kg.	3300	64.78	213774.00
7	G.I.Angle 75x40 mm	Kg.	200	64.78	12956.00
8	G.I Flat 50x10 mm	Kg.	160	61.55	9848.00
9	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
12	Earthing complete as per Sheet no.1	Set	2	234229.08	468458.15
13	Power Transformer 33/11 KV, 5 MVA	No	2	3129000.00	6258000.00
14	33 KV P.T.	Nos	3	18898.49	56695.48
15	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56649.73	113299.46
18	33 kV Pin Insulators with G.I. Pins	Nos	12	541.38	6496.53
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	47173.08	94346.15
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Marshalling Box	No.	2	4200.00	8400.00
B	**11 KV SIDE**				
22	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3005005.74	3005005.74
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1130.43	678258.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1661.61	13292.88
25	Clamps and Connectors as per Sheet no.3	No.	1	335153.64	335153.64
26	S/S Yard lighting as per Sheet no.4	No.	1	162532.00	162532.00
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	194051.30	194051.30
29	Control cables for S/S as per Sheet no.6	No.	1	178665.20	178665.20
30	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**12952528.82**
1	Transportation on material	4.00%			518101
2	T&P on material cost	1.00%			129525
3	Contigencies on material	0.50%			64763
5	Erection cost on material	5.00%			647626
6	Contractor supervision charges on material	5.00%			647626
7	Insurance , Labour & Finance Cost	2.50%			323813
	Service Cost				**2331455**
	Sub-Total				**15283984**
8	Turnkey Charges	4.00%			611359
	Total				**15895343**
9	Civil Works As per Sheet 'C'	No.	1		6045709
	Total Cost of Estimate				**21941053**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	20260346	15895343
Civil Works As per Sheet 'C'	7705915	6045709
Total Cost of the Estimate	27966260	21941053

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	**335153.64**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) Hybrid	129568	
2	Control room (As per table B) Hybrid	3330411.052	
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D) Hybrid	149814.5	
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	607002.415	
8	Metal Spreading (As per table F) Hybrid	130745	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I) Hybrid	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	285085.26	
13	Construction of retaining wall. (As per table K) Hybrid	345788.00	
	Total=	**6045709.231**	

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Item Code No.0104D

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	13094.00	52376.00
2	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
3	33 KV Isolators without EB (800 Amp.)	Set	5	46750.00	233750.00
4	33 KV Post Insulator	Nos	6	917.65	5505.93
5	RSJ 125x70, 8 m long	Nos	16	4591.00	73456.00
6	G.I.Channel 100x50x6mm	Kg.	3300	64.78	213774.00
7	G.I.Angle 75x40 mm	Kg.	200	64.78	12956.00
8	G.I Flat 50x10 mm	Kg.	160	61.55	9848.00
9	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
12	Earthing complete as per Sheet no.1	Set	2	234229.08	468458.15
13	Power Transformer 33/11 KV, 10 MVA	No	2	5233333.00	10466666.00
14	33 KV P.T.	Nos	3	18898.49	56695.48
15	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
16	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
17	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	2	56649.73	113299.46
18	33 kV Pin Insulators with G.I. Pins	Nos	12	541.38	6496.53
19	Structure for 33 KV CT & PT as per Sheet no.2	No	2	47173.08	94346.15
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Marshalling Box	No.	2	4200.00	8400.00
B	**11 KV SIDE**				
22	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3005005.74	3005005.74
23	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	600	1130.43	678258.00
24	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	8	1661.61	13292.88
25	Clamps and Connectors as per Sheet no.3	No.	1	335153.64	335153.64
26	S/S Yard lighting as per Sheet no.4	No.	1	162532.00	162532.00
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.5	No.	1	194051.30	194051.30
29	Control cables for S/S as per Sheet no.6	No.	1	178665.20	178665.20
30	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**17161194.82**
1	Transportation on material	4.00%			686448
2	T&P on material cost	1.00%			171612
3	Contigencies on material	0.50%			85806
5	Erection cost on material	5.00%			858060
6	Contractor supervision charges on material	5.00%			858060
7	Insurance , Labour & Finance Cost	2.50%			429030
	Service Cost				**3089015**
	Sub-Total				**20250210**
8	Turnkey Charges	4.00%			810008
	Total				**21060218**
9	Civil Works As per Sheet 'C'	No.	1		6045709
	Total Cost of Estimate				**27105928**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	26843541	21060218
Civil Works As per Sheet 'C'	7705915	6045709
Total Cost of the Estimate	34549456	27105928

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

Sheet No.2

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	**335153.64**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) Hybrid	129568	
2	Control room (As per table B) Hybrid	3330411.052	
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D) Hybrid	149814.5	
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	607002.415	
8	Metal Spreading (As per table F) Hybrid	130745	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I) Hybrid	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	285085.26	
13	Construction of retaining wall. (As per table K) Hybrid	345788.00	
	Total=	**6045709.231**	

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Item Code No. 0201					
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	3129000.00	3129000.00

D	Cost of material		**3129000.00**
1	Transportation on material	4.00%	125160
2	T&P on material cost	1.00%	31290
3	Contigencies on material	0.50%	15645
5	Erection cost on material	5.00%	156450
6	Contractor supervision charges on material	5.00%	156450
7	Insurance , Labour & Finance Cost	2.50%	78225
	Service Cost		**563220**
	Sub-Total		**3692220**
8	Turnkey Charges	4.00%	147689
	Total		**3839909**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	4894382	3839909
Total Cost of the Estimate	4894382	3839909

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MSEDCL

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	5233333.00	5233333.00
2	C&R panel for 33 KV Transformer with Diff. Protection	No	1	133331.44	133331.44
3	AAAC 232 mm2	Mtr	75	124.91	9368.25
4	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
B	11 KV Side				
1	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	1108356.46	1108356.46
2	Clamps and Connectors as per Sheet no.1	No.	1	189486.90	189486.90
3	Take off structure for 3 outgoing feeder as per Sheet no.2	No.	1	248220.70	248220.70
4	Structure for 11 KV Main Bus as per Sheet no.3	No.	1	208567.13	208567.13
5	Armoured Copper control cable 7Cx2.5 sq.mm.	mtr	125	134.52	16815.00
D	**Cost of material**				**7223228.88**
1	Transportation on material	4.00%			288929
2	T&P on material cost	1.00%			72232
3	Contigencies on material	0.50%			36116
5	Erection cost on material	5.00%			361161
6	Contractor supervision charges on material	5.00%			361161
7	Insurance , Labour & Finance Cost	2.50%			180581
	Service Cost				**1300181**
	Sub-Total				**8523410**
8	Turnkey Charges	4.00%			340936
	Total				**8864346**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost of Material	11298575	8864346
Total Cost of the Estimate	11298575	8864346

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**189486.90**

MSEDCL

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**248220.70**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

MSEDCL

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	5233333.00	5233333.00
2	C&R panel for 33 KV Transformer with Diff. Protection	No	1	133331.44	133331.44
3	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
5	33 KV Lightning Arrestors (Station type)	Set	2	13094.00	26188.00
6	33 KV Isolators without EB (800 Amp.)	Set	2	46750.00	93500.00
7	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
8	AAAC 232 mm2	Mtr	300	124.91	37473.00
9	Structure for 33 KV CT as per Sheet no.1	No	1	26793.88	26793.88
10	Control cables for S/S as per Sheet no.2	No.	1	16815.00	16815.00
11	Clamps and Connectors as per Sheet no.3	No.	1	168379.14	168379.14
B	11 KV Side				
1	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	1108356.46	1108356.46
2	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
3	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	248220.70	248220.70
4	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	208567.13	208567.13
D	Cost of material				7628907.76
1	Transportation on material	4.00%			305156
2	T&P on material cost	1.00%			76289
3	Contigencies on material	0.50%			38145
5	Erection cost on material	5.00%			381445
6	Contractor supervision charges on material	5.00%			381445
7	Insurance , Labour & Finance Cost	2.50%			190723
	Service Cost				**1373203**
	Sub-Total				**9002111**
8	Turnkey Charges	4.00%			360084
	Total				**9362196**
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)				**422580**
	Total Estimate				**9784775**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	11933138	9362196
Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	538624	422580
Total Cost of the Estimate	12471761	9784775

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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	50.78	15995.70
2	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Power T/F Neutral Earthing	Kg.	25	50.78	1269.50
4	G.I.Nut Bolts	Kg.	20	82.89	1657.78
				Total:	**26793.88**

MSEDCL

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	134.52	16815.00
				TOTAL	**16815.00**

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	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**168379.14**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**248220.70**

MSEDCL

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

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	3129000.00	3129000.00
2	33 KV P.T.	Nos	3	18898.49	56695.48
3	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
5	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
6	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
7	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
8	Structure for 33 KV CT & PT as per Sheet no.1	No	1	47173.08	47173.08
9	Control cables for S/S as per Sheet no.2	No.	1	88206.10	88206.10
10	Clamps and Connectors as per Sheet no.3	No.	1	189486.90	189486.90
11	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73

D	**Cost of material**		**4090211.29**
1	Transportation on material	4.00%	163608
2	T&P on material cost	1.00%	40902
3	Contigencies on material	0.50%	20451
5	Erection cost on material	5.00%	204511
6	Contractor supervision charges on material	5.00%	204511
7	Insurance , Labour & Finance Cost	2.50%	102255
	Service Cost		**736238**
	Sub-Total		**4826449**
8	Turnkey Charges	4.00%	193058
	Total		**5019507**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	6397908	5019507
Total Cost of the Estimate	6397908	5019507

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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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

MSEDCL

Sheet No. 3

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**189486.90**

MSEDCL

Item Code No. 0205					
Cost data for Augmentation of 33/11 KV, 1x3.15 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	3129000.00	6258000.00
2	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
3	33 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
4	33 KV Lightning Arrestors (Station type)	Set	2	13094.00	26188.00
5	33 KV Isolators without EB (800 Amp.)	Set	4	46750.00	187000.00
6	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
6	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
7	Clamps and Connectors as per Sheet no.5	No.	1	189486.90	189486.90
9	Control cables for S/S as per Sheet no.7	No.	2	88206.10	176412.20
10	Structure for 33 KV CT & PT as per Sheet no.3	No	2	47173.08	94346.15
11	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	114241.02	114241.02
12	Earthing complete as per Sheet no.2	Set	1	234229.08	234229.08
13	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	1108356.46	1108356.46
14	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	208567.13	208567.13
15	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	248220.70	248220.70

D	**Cost of material**		**9415747.64**
1	Transportation on material	4.00%	376630
2	T&P on material cost	1.00%	94157
3	Contigencies on material	0.50%	47079
5	Erection cost on material	5.00%	470787
6	Contractor supervision charges on material	5.00%	470787
7	Insurance , Labour & Finance Cost	2.50%	235394
	Service Cost		**1694835**
	Sub-Total		**11110582**
8	Turnkey Charges	4.00%	444423
	Total		**11555006**
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)		422580
	Total Cost of Estimate		**11977585**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	14728112	11555006
Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	538624	422580
Total Cost of the Estimate	15266736	11977585

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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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

MSEDCL

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**248220.70**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**189486.90**

MSEDCL

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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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	5233333.00	10466666.00
2	C&R panel for 33 KV Transformer with Diff. Protection	No	2	133331.44	266662.88
3	AAAC 232 mm2	Mtr	300	124.91	37473.00
4	33 kV C. T. (400-200/1-1-1)	Nos	6	25250.00	151500.00
5	Clamps and Connectors as per Sheet no.1	No.	1	251351.40	251351.40
B	11 KV Side				
1	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	1108356.46	2216712.92
2	Take off structure for 3 outgoing feeder as per Sheet no.2	No.	2	266366.70	532733.40
3	Structure for 11 KV Main Bus as per Sheet no.3	No.	2	208567.13	417134.27
4	Armoured Copper control cable 7Cx2.5 sq.mm.	mtr	250	134.52	33630.00
D	**Cost of material**				**14373863.86**
1	Transportation on material	4.00%			574955
2	T&P on material cost	1.00%			143739
3	Contigencies on material	0.50%			71869
5	Erection cost on material	5.00%			718693
6	Contractor supervision charges on material	5.00%			718693
7	Insurance , Labour & Finance Cost	2.50%			359347
	Service Cost				**2587295**
	Sub-Total				**16961159**
8	Turnkey Charges	4.00%			678446
	Total				**17639606**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	22483598	17639606
Total Cost of the Estimate	22483598	17639606

MSEDCL

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
		Total:			**251351.40**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**266366.70**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

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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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	Earthing complete as per sheet No. 1	Set	1	234229.08	234229.08
6	Power Transformer 33/11 KV, 5 MVA	No	1	3129000.00	3129000.00
7	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
8	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
9	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
10	Structure for 33 KV CT as per Sheet no. 2	No	1	31177.38	31177.38
11	G.I.Nut Bolts	KG	100	82.89	8288.92
B	**11 KV SIDE**				
12	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	1108356.46	1108356.46
13	11 kV Pin Insulators with G.I. Pins	No	12	135.11	1621.26
14	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
15	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	248220.70	248220.70
16	Clamps and Connectors as per Sheet no. 4	No.	1	185136.90	185136.90
17	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	208567.13	208567.13
18	Control cables for S/S as per Sheet no.6	No.	1	88206.10	88206.10

D	**Cost of material**				**5782494.63**
1	Transportation on material	4.00%			231300
2	T&P on material cost	1.00%			57825
3	Contigencies on material	0.50%			28912
5	Erection cost on material	5.00%			289125
6	Contractor supervision charges on material	5.00%			289125
7	Insurance , Labour & Finance Cost	2.50%			144562
	Service Cost				**1040849**
	Sub-Total				**6823344**
8	Turnkey Charges	4.00%			272934
	Total				**7096277**
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	No.	1	422579.50	422580
	Total Cost of Estimate				**7518857**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	9044978	7096277
Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	538624	422580
Total Cost of the Estimate	9583602	7518857

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	18280.80
2	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**248220.70**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
		Total:			**185136.90**

MSEDCL

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

MSEDCL

Item Code No. 0302					
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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
6	AAAC 232 mm2	MTR	200	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
8	Earthing complete as per Sheet no.1	Set	1	234229.08	234229.08
9	Power Transformer 33/11 KV, 10 MVA	No	1	5233333.00	5233333.00
10	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
11	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
12	C&R panel for 33 KV Transformer with Diff. Protection	No	1	133331.44	133331.44
13	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
14	Structure for 33 KV CT as per Sheet no.2	No	1	31177.38	31177.38
15	G.I.Nut Bolts	KG	150	82.89	12433.39
B	**11 KV SIDE**				
16	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	1108356.46	1108356.46
17	11 kV Pin Insulators with G.I. Pins	No	12	135.11	1621.26
18	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
19	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	319461.67	319461.67
20	Clamps and Connectors as per Sheet no.4	No.	1	189924.90	189924.90
21	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	261222.21	261222.21
22	Control cables for S/S as per Sheet no.6	No.	1	88206.10	88206.10
23	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

	Cost of material				**8160045.06**
1	Transportation on material	4.00%			326402
2	T&P on material cost	1.00%			81600
3	Contigencies on material	0.50%			40800
5	Erection cost on material	5.00%			408002
6	Contractor supervision charges on material	5.00%			408002
7	Insurance , Labour & Finance Cost	2.50%			204001
	Service Cost				**1468808**
	Sub-Total				**9628853**
8	Turnkey Charges	4.00%			385154
	Total				**10014007**
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	No.	1	422579.50	422580
	Total Cost of Estimate				**10436587**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	12763942	10014007
Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	538624	422580
Total Cost of the Estimate	13302566	10436587

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MSEDCL

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	18280.80
2	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**319461.67**

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	718.19	21545.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**189924.90**

MSEDCL

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**261222.21**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

MSEDCL

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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
6	AAAC 232 mm2	MTR	200	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
8	Earthing complete as per sheet No. 1	Set	1	234229.08	234229.08
9	Power Transformer 33/11 KV, 5 MVA	No	1	3129000.00	3129000.00
10	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
11	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
12	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
13	Structure for 33 KV CT as per Sheet no. 2	No	1	31177.38	31177.38
14	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.7	Nos	1	114241.02	114241.02
15	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
16	G.I.Nut Bolts	KG	100	82.89	8288.92
17	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
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	1108356.46	1108356.46
19	11 kV Pin Insulators with G.I. Pins	No	12	135.11	1621.26
20	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
21	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	248220.70	248220.70
22	Clamps and Connectors as per Sheet no. 4	No.	1	185136.90	185136.90
23	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	208567.13	208567.13
24	Control cables for S/S as per Sheet no.6	No.	1	88206.10	88206.10

D	**Cost of material**				**5938981.91**
1	Transportation on material	4.00%			237559
2	T&P on material cost	1.00%			59390
3	Contigencies on material	0.50%			29695
5	Erection cost on material	5.00%			296949
6	Contractor supervision charges on material	5.00%			296949
7	Insurance , Labour & Finance Cost	2.50%			148475
	Service Cost				**1069017**
	Sub-Total				**7007999**
8	Turnkey Charges	4.00%			280320
	Total				**7288319**
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	No.	1	422579.50	422580
	Total Cost of Estimate				**7710898**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	9289756	7288319
Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	538624	422580
Total Cost of the Estimate	9828379	7710898

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	18280.80
2	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**248220.70**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
		Total:			**185136.90**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

MSEDCL

Item Code No. 0302A					
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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	114241.02	114241.02
6	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
9	Earthing complete as per Sheet no.2	Set	1	234229.08	234229.08
10	Power Transformer 33/11 KV, 10 MVA	No	1	5233333.00	5233333.00
11	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
13	C&R panel for 33 KV Transformer with Diff. Protection	No	1	133331.44	133331.44
14	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
15	Structure for 33 KV CT & LA as per Sheet no.3	No	1	31177.38	31177.38
16	G.I.Nut Bolts	KG	150	82.89	12433.39
17	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
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	1108356.46	1108356.46
19	11 kV Pin Insulators with G.I. Pins	No	12	135.11	1621.26
20	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	319461.67	319461.67
22	Clamps and Connectors as per Sheet no.5	No.	1	189924.90	189924.90
23	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	261222.21	261222.21
24	Control cables for S/S as per Sheet no.7	No.	1	88206.10	88206.10
25	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

	Cost of material				**8278486.08**
1	Transportation on material	4.00%			331139
2	T&P on material cost	1.00%			82785
3	Contigencies on material	0.50%			41392
5	Erection cost on material	5.00%			413924
6	Contractor supervision charges on material	5.00%			413924
7	Insurance , Labour & Finance Cost	2.50%			206962
	Service Cost				**1490127**
	Sub-Total				**9768614**
8	Turnkey Charges	4.00%			390745
	Total				**10159358**
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	No.	1	422579.50	422580
	Total Cost of Estimate				**10581938**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	12949208	10159358
Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	538624	422580
Total Cost of the Estimate	13487832	10581938

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MSEDCL

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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	18280.80
2	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**319461.67**

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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	718.19	21545.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**189924.90**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**261222.21**

MSEDCL

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
6	AAAC 232 mm2	MTR	200	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
8	Earthing complete as per Sheet no.1	Set	1	256234.08	256234.08
9	Power Transformer 33/11 KV, 5 MVA	No	1	3129000.00	3129000.00
10	33 KV P.T.	Nos	3	18898.49	56695.48
11	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
13	C&R panel for 33 KV Transformer with 1 Amp. Relay	No	1	56649.73	56649.73
14	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
15	Structure for 33 KV CT & LA as per Sheet no.2	No	1	31177.38	31177.38
16	G.I.Nut Bolts	KG	150	82.89	12433.39
17	Marshalling Box	No.	1	4200.00	4200.00
18	Clamps and Connectors as per Sheet no.3	No.	1	273289.14	273289.14
B	**11 KV SIDE**				
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1639051.62	1639051.62
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1130.43	339129.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1661.61	6646.44
22	Control cables for S/S as per Sheet no.4	No.	1	88206.10	88206.10
23	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**6438360.54**
1	Transportation on material	4.00%			257534
2	T&P on material cost	1.00%			64384
3	Contigencies on material	0.50%			32192
5	Erection cost on material	5.00%			321918
6	Contractor supervision charges on material	5.00%			321918
7	Insurance , Labour & Finance Cost	2.50%			160959
	Service Cost				**1158905**
	Sub-Total				**7597265**
8	Turnkey Charges	4.00%			303891
	Total				**7901156**
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)				422580
	Total Cost of Estimate				**8323736**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	10070884	7901156
Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	538624	422580
Total Cost of the Estimate	10609507	8323736

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MSEDCL

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	61.55	92325.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2750.00	2750.00
				Total:	**256234.08**

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	50.78	18280.80
2	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**273289.14**

MSEDCL

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

Item Code No.0302B					
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	13094.00	26188.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	3	46750.00	140250.00
4	33 KV Post Insulator	Nos	3	917.65	2752.96
5	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
6	AAAC 232 mm2	MTR	200	124.91	24982.00
7	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
8	Earthing complete as per Sheet no.1	Set	1	234229.08	234229.08
9	Power Transformer 33/11 KV, 10 MVA	No	1	5233333.00	5233333.00
10	33 KV P.T.	Nos	3	18898.49	56695.48
11	33 kV C. T. (400-200/1-1-1)	Nos	3	25250.00	75750.00
12	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
13	C&R panel for 33 KV Transformer with Diff. Protection	No	1	133331.44	133331.44
14	33 kV Pin Insulators with G.I. Pins	Nos	6	541.38	3248.26
15	Structure for 33 KV CT & LA as per Sheet no.2	No	1	31177.38	31177.38
16	G.I.Nut Bolts	KG	150	82.89	12433.39
17	Marshalling Box	No.	1	4200.00	4200.00
18	Clamps and Connectors as per Sheet no.3	No.	1	273289.14	273289.14
B	**11 KV SIDE**				
19	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1639051.62	1639051.62
20	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	300	1130.43	339129.00
21	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	4	1661.61	6646.44
22	Control cables for S/S as per Sheet no.4	No.	1	88206.10	88206.10
23	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**8597370.25**
1	Transportation on material	4.00%			343895
2	T&P on material cost	1.00%			85974
3	Contigencies on material	0.50%			42987
5	Erection cost on material	5.00%			429869
6	Contractor supervision charges on material	5.00%			429869
7	Insurance , Labour & Finance Cost	2.50%			214934
	Service Cost				**1547527**
	Sub-Total				**10144897**
8	Turnkey Charges	4.00%			405796
	Total				**10550693**
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)				422580
	Total Cost of Estimate				**10973272**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	13448007	10550693
Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	538624	422580
Total Cost of the Estimate	13986630	10973272

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MSEDCL

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	18280.80
2	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**273289.14**

MSEDCL

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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	13094.00	13094.00
2	33 KV VCB complete 1600 Amp (O.D.)	No	1	180000.00	180000.00
3	33 kV C. T. (400-200/1-1-1)	No	3	25250.00	75750.00
4	33 KV Isolators without EB (800 Amp.)	Set	2	46750.00	93500.00
5	Power Transformer 33/22 KV 5 MVA	No	1	3243667.00	3243667.00
6	Earthing complete as per Sheet no.4	Set	1	234229.08	234229.08
7	C&R panel for 33 KV Transformer with 1 Amp. Relay	Set	1	56649.73	56649.73
8	G.I.Nut Bolts	Kg	20	82.89	1657.78
9	Marshalling Box	No	1	4200.00	4200.00
10	Fire Extinguisher with stand	Set	1	4200.00	4200.00
11	Structure for 33 KV CT/LA/Post Insulator as per Table No 1	No	1	31177.38	31177.38
	22KV SIDE				
1	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	1678894.84	1678894.84
2	22 KV Lightning Arrestors (Station type)	Set	1	11467.00	11467.00
3	22 kV Pin Insulators with G.I. Pins	No	12	335.98	4031.71
4	Clamps and Connectors as per Table No 2	No	1	185136.90	185136.90
5	Control Cables as per Table No 3	No	1	88206.10	88206.10
6	Take off structure for 3 outgoing feeder as per Sheet no.5	No.	1	267122.08	248220.70
7	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	215501.27	208567.13
	TOTAL COST OF MATERIAL				**6362649.35**

1	Transportation on material	4.00%	254506
2	T&P on material cost	1.00%	63626
3	Contigencies on material	0.50%	31813
5	Erection cost on material	5.00%	318132
6	Contractor supervision charges on material	5.00%	318132
7	Insurance , Labour & Finance Cost	2.50%	159066
	Service Cost		**1145277**
	Sub-Total		**7507926**
8	Turnkey Charges	4.00%	300317
	Total		**7808243**
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)		422580
	Total Cost of Estimate		**8230823**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	9952456	7808243
Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	538624	422580
Total Cost of the Estimate	10491080	8230823

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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	50.78	18280.80
2	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

MSEDCL

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**185136.90**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**248220.70**

MSEDCL

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

MSEDCL

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	13094.00	13094.00
2	33 KV VCB complete 1600 Amp (O.D.)	No	1	180000.00	180000.00
3	33 kV C. T. (400-200/1-1-1)	No	3	25250.00	75750.00
4	33 KV Isolators without EB (800 Amp.)	Set	2	46750.00	93500.00
5	Power Transformer 33/22 KV 10 MVA	No	1	5330000.00	5330000.00
6	Earthing complete as per Sheet no.4	Set	1	234229.08	234229.08
7	C&R panel for 33 KV Transformer with Diff. Protection	Set	1	133331.44	133331.44
8	G.I.Nut Bolts	Kg	20	82.89	1657.78
9	Marshalling Box	No	1	4200.00	4200.00
10	Fire Extinguisher with stand	Set	1	4200.00	4200.00
11	Structure for 33 KV CT/LA/Post Insulator as per Table No 1	No	1	31177.38	31177.38
	22KV SIDE				
1	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	1678894.84	1678894.84
2	22 KV Lightning Arrestors (Station type)	Set	1	11467.00	11467.00
3	22 kV Pin Insulators with G.I. Pins	No	12	335.98	4031.71
4	Clamps and Connectors as per Table No 2	No	1	185136.90	185136.90
5	Control Cables as per Table No 3	No	1	88206.10	88206.10
6	Take off structure for 3 outgoing feeder as per Sheet no.5	No.	1	267122.08	248220.70
7	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	215501.27	208567.13
	TOTAL COST OF MATERIAL				**8525664.06**

1	Transportation on material	4.00%	341027
2	T&P on material cost	1.00%	85257
3	Contigencies on material	0.50%	42628
5	Erection cost on material	5.00%	426283
6	Contractor supervision charges on material	5.00%	426283
7	Insurance , Labour & Finance Cost	2.50%	213142
	Service Cost		**1534620**
	Sub-Total		**10060284**
8	Turnkey Charges	4.00%	402411
	Total		**10462695**
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)		422580
	Total Cost of Estimate		**10885274**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	13335844	10462695
Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	538624	422580
Total Cost of the Estimate	13874467	10885274

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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	50.78	18280.80
2	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

MSEDCL

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**185136.90**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**248220.70**

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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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

MSEDCL

Item Code No. 0401					
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	11467.00	22934.00
2	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
3	22 KV Isolators without EB (800 Amp.)	Set	3	39000.00	117000.00
4	22 KV Post Insulator	Nos	3	835.00	2505.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	114241.02	114241.02
6	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
9	Earthing complete as per Sheet no.2	Set	1	234229.08	234229.08
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3095000.00	3095000.00
11	22 KV P.T.	Nos	3	17750.00	53250.00
12	22 KV C.T. Three core.	Nos	3	24964.00	74892.00
13	22 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
14	C&R panel for 22 KV Transformer with 1 A relay	No	1	51655.23	51655.23
15	22 kV Pin Insulators with G.I. Pins	Nos	6	335.98	2015.85
16	Structure for 22 KV CT & PT as per Sheet no.3	No	1	47173.08	47173.08
17	G.I.Nut Bolts	KG	150	82.89	12433.39
18	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	**11 KV SIDE**				
19	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	1108356.46	1108356.46
20	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	248220.70	248220.70
22	11 kV Pin Insulators with G.I. Pins	No.	12	135.11	1621.26
23	Clamps and Connectors as per Sheet no.5	No.	1	183451.93	183451.93
24	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	208567.13	208567.13
25	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	195504.70	195504.70
28	Control cables for S/S as per Sheet no.9	No.	1	88206.10	88206.10
29	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
D	**Cost of material**				**6383147.89**
1	Transportation on material	4.00%			255326
2	T&P on material cost	1.00%			63831
3	Contigencies on material	0.50%			31916
5	Erection cost on material	5.00%			319157
6	Contractor supervision charges on material	5.00%			319157
7	Insurance , Labour & Finance Cost	2.50%			159579
	Service Cost				**1148967**
	Sub-Total				**7532115**
8	Turnkey Charges	4.00%			301285
	Total				**7833399**
9	Civil works	No.	1		5565423
	Total Cost of Estimate				**13398822**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	9984520	7833399
Civil works	7093737	5565423
Total Cost of the Estimate	17078257	13398822

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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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
		Total:			**248220.70**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
		Total:			**183451.93**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
					162532.00

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
		Total:			**195504.70**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	422579.5	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5565422.524**	

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	11467.00	22934.00
2	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
3	22 KV Isolators without EB (800 Amp.)	Set	3	39000.00	117000.00
4	22 KV Post Insulator	Nos	3	835.00	2505.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	114241.02	114241.02
6	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
9	Earthing complete as per Sheet no.2	Set	1	234229.08	234229.08
10	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	5205000.00	5205000.00
11	22 KV P.T.	Nos	3	17750.00	53250.00
12	22 KV C.T. Three core.	Nos	3	24964.00	74892.00
13	22 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
14	C&R panel for 22 KV Transformer with Diff. Protection	No	1	111259.86	111259.86
15	22 kV Pin Insulators with G.I. Pins	Nos	6	335.98	2015.85
16	Structure for 22 KV CT & PT as per Sheet no.3	No	1	47173.08	47173.08
17	G.I.Nut Bolts	KG	150	82.89	12433.39
18	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	**11 KV SIDE**				
19	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	1108356.46	1108356.46
20	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
21	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	1	318640.15	318640.15
22	11 kV Pin Insulators with G.I. Pins	No.	12	135.11	1621.26
23	Clamps and Connectors as per Sheet no.5	No.	1	188239.93	188239.93
24	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	261222.21	261222.21
25	S/S Yard lighting as per Sheet no.7	No.	1	143596.86	143596.86
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	195504.70	195504.70
28	Control cables for S/S as per Sheet no.9	No.	1	88206.10	88206.10
29	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

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	Cost of material			**8661679.89**
1	Transportation on material	4.00%		346467
2	T&P on material cost	1.00%		86617
3	Contigencies on material	0.50%		43308
5	Erection cost on material	5.00%		433084
6	Contractor supervision charges on material	5.00%		433084
7	Insurance , Labour & Finance Cost	2.50%		216542
	Service Cost			**1559102**
	Sub-Total			**10220782**
8	Turnkey Charges	4.00%		408831
	Total			**10629614**
9	Civil works	No.	1	5565423
	Total Cost of Estimate			**16195036**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	13548600	10629614
Civil works	7093737	5565423
Total Cost of the Estimate	20642337	16195036

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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	45587.00	90444.61
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.522	45587.00	23796.41
				Total:	**114241.02**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**318640.15**

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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	718.19	21545.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
				Total:	**188239.93**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**261222.21**

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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	3060.00	36720.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cmt	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**143596.86**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
		Total:			**195504.70**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	422579.5	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5565422.524**	

Item Code No.0403					
Cost data for 22/11 KV, 2x5 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	4	11467.00	45868.00
2	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
3	22 KV Isolators without EB (800 Amp.)	Set	5	39000.00	195000.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	183259.74	366519.48
6	Disc Insulator 11 KV 7000 KG.	Nos	72	344.48	24802.56
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
9	Earthing complete as per Sheet no.2	Set	2	234229.08	468458.15
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	3095000.00	6190000.00
11	22 KV P.T.	Nos	3	17750.00	53250.00
12	22 KV C.T. Three core.	Nos	12	24964.00	299568.00
13	22 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
14	C&R panel for 22 KV Transformer with 1 A relay	No	2	51655.23	103310.46
16	22 kV Pin Insulators with G.I. Pins	Nos	24	335.98	8063.41
17	Structure for 22 KV CT & PT as per Sheet no.3	No	2	47173.08	94346.15
18	G.I.Nut Bolts	KG	150	82.89	12433.39
19	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
20	Marshalling Box	Nos.	4	4200.00	16800.00
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	2	1108356.46	2216712.92
22	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
23	Take off structure for 6 outgoing feeder as per Sheet no.4	No.	2	266366.70	532733.40
24	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
25	Clamps and Connectors as per Sheet no.5	No.	1	183451.93	183451.93
26	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	208567.13	208567.13
27	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
28	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
29	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	195504.70	195504.70
30	Control cables for S/S as per Sheet no.9	No.	2	178665.20	357330.40
31	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

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	Cost of material			**12324978.29**
1	Transportation on material	4.00%		492999
2	T&P on material cost	1.00%		123250
3	Contigencies on material	0.50%		61625
5	Erection cost on material	5.00%		616249
6	Contractor supervision charges on material	5.00%		616249
7	Insurance , Labour & Finance Cost	2.50%		308124
	Service Cost			**2218496**
	Sub-Total			**14543474**
8	Turnkey Charges	4.00%		581739
	Total			**15125213**
9	Civil works	No.	1	5988002
	Total Cost of Estimate			**21113215**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	19278731	15125213
Civil works	7632360	5988002
Total Cost of the Estimate	26911092	21113215

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45587.00	47592.83
				Total:	**183259.74**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**266366.70**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
				Total:	**183451.93**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
					162532.00

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**195504.70**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

Item Code No. 0404					
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 Lightning Arrestors (Station type)	Set	4	11467.00	45868.00
2	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
3	22 KV Isolators without EB (800 Amp.)	Set	5	39000.00	195000.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	183259.74	366519.48
6	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
9	Earthing complete as per Sheet no.2	Set	2	234229.08	468458.15
10	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	2	5205000.00	10410000.00
11	22 KV P.T.	Nos	3	17750.00	53250.00
12	22 KV C.T. Three core.	Nos	6	24964.00	149784.00
13	22 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
14	C&R panel for 22 KV Transformer with Diff. Protection	No	2	111259.86	222519.72
16	22 kV Pin Insulators with G.I. Pins	Nos	12	335.98	4031.71
17	Structure for 22 KV CT & PT as per Sheet no.3	No	2	47173.08	94346.15
18	G.I.Nut Bolts	KG	150	82.89	12433.39
19	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
B	**11 KV SIDE**				
20	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	1108356.46	2216712.92
21	Take off structure for 6 outgoing feeder as per Sheet no.4	No.	2	336786.15	673572.29
22	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
23	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
24	Clamps and Connectors as per Sheet no.5	No.	1	188239.93	188239.93
25	Structure for 11 KV Main Bus as per Sheet no.6	No.	1	261222.21	261222.21
26	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
27	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
28	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	197901.30	197901.30
29	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
30	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

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	Cost of material			**16503183.93**
1	Transportation on material	4.00%		660127
2	T&P on material cost	1.00%		165032
3	Contigencies on material	0.50%		82516
5	Erection cost on material	5.00%		825159
6	Contractor supervision charges on material	5.00%		825159
7	Insurance , Labour & Finance Cost	2.50%		412580
	Service Cost			**2970573**
	Sub-Total			**19473757**
8	Turnkey Charges	4.00%		778950
	Total			**20252707**
9	Civil works	No.	1	5988002
	Total Cost of Estimate			**26240709**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	25814280	20252707
Civil works	7632360	5988002
Total Cost of the Estimate	33446641	26240709

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45587.00	47592.83
				Total:	**183259.74**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**336786.15**

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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	718.19	21545.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
				Total:	**188239.93**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**261222.21**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

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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	11467.00	45868.00
2	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
3	22 KV Isolators without EB (800 Amp.)	Set	10	39000.00	390000.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	183259.74	366519.48
6	Disc Insulator 11 KV 7000 KG.	Nos	72	344.48	24802.56
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
9	Earthing complete as per Sheet no.2	Set	2	234229.08	468458.15
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3095000.00	3095000.00
11	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	5205000.00	5205000.00
12	22 KV P.T.	Nos	3	17750.00	53250.00
13	22 KV C.T. Three core.	Nos	12	24964.00	299568.00
14	22 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
15	C&R panel for 22 KV Transformer with Diff. Protection	No	1	111259.86	111259.86
16	C&R panel for 22 KV Transformer with 1 A relay	No	1	51655.23	51655.23
17	22 kV Pin Insulators with G.I. Pins	Nos	24	335.98	8063.41
18	Structure for 22 KV CT & PT as per Sheet no.3	No	2	47173.08	94346.15
19	G.I.Nut Bolts	KG	150	82.89	12433.39
20	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
21	Marshalling Box	Nos.	4	4200.00	16800.00
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	1108356.46	2216712.92
23	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
24	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	324767.46	649534.91
25	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
26	Clamps and Connectors as per Sheet no.5	No.	1	188239.93	188239.93
27	Structure for 11 KV Main Bus as per Sheet no.6	No.	2	275545.31	551090.63
28	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8.	No.	1	195504.70	195504.70
31	Control cables for S/S as per Sheet no.9	No.	2	178665.20	357330.40
32	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

	Cost of material			**15153695.93**
1	Transportation on material	4.00%		606148
2	T&P on material cost	1.00%		151537
3	Contigencies on material	0.50%		75768
5	Erection cost on material	5.00%		757685
6	Contractor supervision charges on material	5.00%		757685
7	Insurance , Labour & Finance Cost	2.50%		378842
	Service Cost			**2727665**
	Sub-Total			**17881361**
8	Turnkey Charges	4.00%		715254
	Total			**18596616**
9	Civil works	No.	1	5988002
	Total Cost of Estimate			**24584618**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	23703411	18596616
Civil works	7632360	5988002
Total Cost of the Estimate	31335772	24584618

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45587.00	47592.83
				Total:	**183259.74**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	19	558.59	10613.25
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**324767.46**

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	718.19	21545.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
		Total:			**188239.93**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	12	558.59	6703.10
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
14	Miscelleneous material	LS	1	450.00	450.00
				Total:	**275545.31**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
					162532.00

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**195504.70**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
5	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0401A					
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	11467.00	22934.00
2	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
3	22 KV Isolators without EB (800 Amp.)	Set	3	39000.00	117000.00
4	22 KV Post Insulator	Nos	3	835.00	2505.00
5	RSJ 125x70, 8 m long	Nos	8	4591.00	36728.00
6	MS Channel 100x50x6 mm	Kg.	1650	50.78	83787.00
7	M.S. Angel(75 X 40 mm)	Kg.	100	50.78	5078.00
8	M.S. Flats(50 X 10mm)	Kg.	80	47.55	3804.00
9	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
12	Earthing complete as per Sheet no.1	Set	1	234229.08	234229.08
13	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3095000.00	3095000.00
14	22 KV P.T.	Nos	3	17750.00	53250.00
15	22 KV C.T. Three core.	Nos	3	24964.00	74892.00
16	22 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
17	C&R panel for 22 KV Transformer with 1 A relay	No	1	51655.23	51655.23
18	22 kV Pin Insulators with G.I. Pins	Nos	6	335.98	2015.85
19	Structure for 22 KV CT & PT as per Sheet no.2	No	1	47173.08	47173.08
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
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	1	1108356.46	1108356.46
23	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	248220.70	248220.70
25	11 kV Pin Insulators with G.I. Pins	No.	12	135.11	1621.26
26	Clamps and Connectors as per Sheet no.4	No.	1	183451.93	183451.93
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	208567.13	208567.13
28	S/S Yard lighting as per Sheet no.6	No.	1	162532.00	162532.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	195504.70	195504.70
31	Control cables for S/S as per Sheet no.8	No.	1	88206.10	88206.10
32	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

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D	**Cost of material**			**6398303.86**
1	Transportation on material	4.00%		255932
2	T&P on material cost	1.00%		63983
3	Contigencies on material	0.50%		31992
5	Erection cost on material	5.00%		319915
6	Contractor supervision charges on material	5.00%		319915
7	Insurance , Labour & Finance Cost	2.50%		159958
	Service Cost			**1151695**
	Sub-Total			**7549999**
8	Turnkey Charges	4.00%		302000
	Total			**7851999**
9	Civil works	No.	1	5565423
	Total Cost of Estimate			**13417421**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	10008227	7851999
Civil works	7093737	5565423
Total Cost of the Estimate	17101964	13417421

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
		Total:			**248220.70**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
		Total:			**183451.93**

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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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
					162532.00

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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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
		Total:			**195504.70**

Sheet No.8

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
5	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	422579.5	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5565422.524**	

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Item Code No. 0402A					
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	11467.00	22934.00
2	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
3	22 KV Isolators without EB (800 Amp.)	Set	3	39000.00	117000.00
4	22 KV Post Insulator	Nos	3	835.00	2505.00
5	RSJ 125x70, 8 m long	Nos	8	4591.00	36728.00
6	MS Channel 100x50x6 mm	Kg.	1650	50.78	83787.00
7	M.S. Angel(75 X 40 mm)	Kg.	100	50.78	5078.00
8	M.S. Flats(50 X 10mm)	Kg.	80	47.55	3804.00
9	Disc Insulator 11 KV 7000 KG.	Nos	18	344.48	6200.64
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	6	602.56	3615.36
12	Earthing complete as per Sheet no.1	Set	1	234229.08	234229.08
13	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	5205000.00	5205000.00
14	22 KV P.T.	Nos	3	17750.00	53250.00
15	22 KV C.T. Three core.	Nos	3	24964.00	74892.00
16	22 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
17	C&R panel for 22 KV Transformer with Diff. Protection	No	1	111259.86	111259.86
18	22 kV Pin Insulators with G.I. Pins	Nos	6	335.98	2015.85
19	Structure for 22 KV CT & PT as per Sheet no.2	No	1	47173.08	47173.08
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
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	1	1108356.46	1108356.46
23	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
24	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	1	319461.67	319461.67
25	11 kV Pin Insulators with G.I. Pins	No.	12	135.11	1621.26
26	Clamps and Connectors as per Sheet no.4	No.	1	188239.93	188239.93
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	1	261222.21	261222.21
28	S/S Yard lighting as per Sheet no.6	No.	1	143596.86	143596.86
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	195504.70	195504.70
31	Control cables for S/S as per Sheet no.8	No.	1	88206.10	88206.10
32	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

	Cost of material			8677657.39
1	Transportation on material	4.00%		347106
2	T&P on material cost	1.00%		86777
3	Contigencies on material	0.50%		43388
5	Erection cost on material	5.00%		433883
6	Contractor supervision charges on material	5.00%		433883
7	Insurance , Labour & Finance Cost	2.50%		216941
	Service Cost			**1561978**
	Sub-Total			**10239636**
8	Turnkey Charges	4.00%		409585
	Total			**10649221**
9	Civil works	No.	1	5565423
	Total Cost of Estimate			**16214644**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	13573592	10649221
Civil works	7093737	5565423
Total Cost of the Estimate	20667329	16214644

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**319461.67**

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	718.19	21545.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
				Total:	**188239.93**

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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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**261222.21**

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	3060.00	36720.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	12	4815.00	57780.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cmt	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**143596.86**

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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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
		Total:			**195504.70**

Sheet No.8

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
5	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G)	422579.5	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5565422.524**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No.0403A					
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	11467.00	45868.00
2	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
3	22 KV Isolators without EB (800 Amp.)	Set	5	39000.00	195000.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	RSJ 125x70, 8 m long	Nos	16	4591.00	73456.00
6	MS Channel 100x50x6 mm	Kg.	3300	50.78	167574.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	50.78	10156.00
8	M.S. Flats(50 X 10mm)	Kg.	160	47.55	7608.00
9	Disc Insulator 11 KV 7000 KG.	Nos	72	344.48	24802.56
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
12	Earthing complete as per Sheet no.1	Set	2	234229.08	468458.15
13	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	3095000.00	6190000.00
14	22 KV P.T.	Nos	3	17750.00	53250.00
15	22 KV C.T. Three core.	Nos	6	24964.00	149784.00
16	22 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
17	C&R panel for 22 KV Transformer with 1 A relay	No	2	51655.23	103310.46
18	22 kV Pin Insulators with G.I. Pins	Nos	24	335.98	8063.41
19	Structure for 22 KV CT & PT as per Sheet no.2	No	2	47173.08	94346.15
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Fire Extinguisher with stand	Set	L.S	4200.00	4000.00
22	Marshalling Box	Nos.	4	4200.00	16800.00
B	**11 KV SIDE**				
23	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	1108356.46	2216712.92
24	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
25	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	266366.70	532733.40
26	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
27	Clamps and Connectors as per Sheet no.4	No.	1	251430.48	251430.48
28	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	208567.13	417134.27
29	S/S Yard lighting as per Sheet no.6	No.	1	162532.00	162532.00
30	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
31	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	195504.70	195504.70
32	Control cables for S/S as per Sheet no.8	No.	2	178665.20	357330.40
33	AC Distribution Board 'B' type	No.	1	25660.96	25660.96

	Cost of material			**12343814.50**
1	Transportation on material	4.00%		493753
2	T&P on material cost	1.00%		123438
3	Contigencies on material	0.50%		61719
5	Erection cost on material	5.00%		617191
6	Contractor supervision charges on material	5.00%		617191
7	Insurance , Labour & Finance Cost	2.50%		308595
	Service Cost			**2221887**
	Sub-Total			**14565701**
8	Turnkey Charges	4.00%		582628
	Total			**15148329**
9	Civil works	No.	1	5988002
	Total Cost of Estimate			**21136331**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	19308195	15148329
Civil works	7632360	5988002
Total Cost of the Estimate	26940555	21136331

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**266366.70**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	42	1020.13	42845.36
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 22 KV C.T.	Nos.	12	1425.46	17105.51
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	12	2040.36	24484.32
				Total:	**251430.48**

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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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 100 sq mm conductor	Nos.	12	733.15	8797.82
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**208567.13**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
					162532.00

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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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**195504.70**

Sheet No.8

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
5	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

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Item Code No. 0404A					
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	11467.00	45868.00
2	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
3	22 KV Isolators without EB (800 Amp.)	Set	7	39000.00	273000.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	RSJ 125x70, 8 m long	Nos	8	4591.00	36728.00
6	MS Channel 100x50x6 mm	Kg.	1650	50.78	83787.00
7	M.S. Angel(75 X 40 mm)	Kg.	100	50.78	5078.00
8	M.S. Flats(50 X 10mm)	Kg.	80	47.55	3804.00
9	Disc Insulator 11 KV 7000 KG.	Nos	36	344.48	12401.28
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
12	Earthing complete as per Sheet no.1	Set	2	234229.08	468458.15
13	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	2	5205000.00	10410000.00
14	22 KV P.T.	Nos	3	17750.00	53250.00
15	22 KV C.T. Three core.	Nos	6	24964.00	149784.00
16	22 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
17	C&R panel for 22 KV Transformer with Diff. Protection	No	2	111259.86	222519.72
18	22 kV Pin Insulators with G.I. Pins	Nos	12	335.98	4031.71
19	Structure for 22 KV CT & PT as per Sheet no.2	No	2	47173.08	94346.15
20	G.I.Nut Bolts	KG	150	82.89	12433.39
21	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
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	1108356.46	2216712.92
23	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	337607.67	675215.33
24	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
25	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
26	Clamps and Connectors as per Sheet no.4	No.	1	256218.48	256218.48
27	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	261222.21	522444.42
28	S/S Yard lighting as per Sheet no.6	No.	1	162532.00	162532.00
29	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
30	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	197901.30	197901.30
31	Control cables for S/S as per Sheet no.8	No.	1	178665.20	178665.20
32	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**16674905.25**
1	Transportation on material	4.00%			666996
2	T&P on material cost	1.00%			166749
3	Contigencies on material	0.50%			83375
5	Erection cost on material	5.00%			833745
6	Contractor supervision charges on material	5.00%			833745
7	Insurance , Labour & Finance Cost	2.50%			416873
	Service Cost				**3001483**
	Sub-Total				**19676388**
8	Turnkey Charges	4.00%			787056
	Total				**20463444**
9	Civil works	No.	1		5988002
	Total Cost of Estimate				**26451446**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	26082887	20463444
Civil works	7632360	5988002
Total Cost of the Estimate	33715247	26451446

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**337607.67**

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	718.19	21545.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	42	1020.13	42845.36
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 22 KV C.T.	Nos.	12	1425.46	17105.51
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	12	2040.36	24484.32
				Total:	**256218.48**

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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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**261222.21**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

Sheet No.8

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
5	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0405A					
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	11467.00	45868.00
2	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
3	22 KV Isolators without EB (800 Amp.)	Set	5	39000.00	195000.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	RSJ 125x70, 8 m long	Nos	16	4591.00	73456.00
6	MS Channel 100x50x6 mm	Kg.	3300	50.78	167574.00
7	M.S. Angel(75 X 40 mm)	Kg.	200	50.78	10156.00
8	M.S. Flats(50 X 10mm)	Kg.	160	47.55	7608.00
9	Disc Insulator 11 KV 7000 KG.	Nos	72	344.48	24802.56
10	AAAC 232 mm2	MTR	200	124.91	24982.00
11	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
12	Earthing complete as per Sheet no.1	Set	2	234229.08	468458.15
13	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	1	3095000.00	3095000.00
14	Power Transformer 22/11 KV, 10 MVA (DY-11)	No	1	5205000.00	5205000.00
15	22 KV P.T.	Nos	3	17750.00	53250.00
16	22 KV C.T. Three core.	Nos	6	24964.00	149784.00
17	22 KV VCB complete 1600 Amp (O.D.)	Set	2	180000.00	360000.00
18	C&R panel for 22 KV Transformer with Diff. Protection	No	1	111259.86	111259.86
19	C&R panel for 22 KV Transformer with 1 A relay	No	1	51655.23	51655.23
20	22 kV Pin Insulators with G.I. Pins	Nos	24	335.98	8063.41
21	Structure for 22 KV CT & PT as per Sheet no.2	No	2	47173.08	94346.15
22	G.I.Nut Bolts	KG	150	82.89	12433.39
23	Fire Extinguisher with stand	Set	L.S	4200.00	4200.00
24	Marshalling Box	Nos.	4	4200.00	16800.00
B	**11 KV SIDE**				
25	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	1108356.46	2216712.92
26	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
27	Take off structure for 3 outgoing feeder as per Sheet no.3	No.	2	324259.67	648519.33
28	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
29	Clamps and Connectors as per Sheet no.4	No.	1	188239.93	188239.93
30	Structure for 11 KV Main Bus as per Sheet no.5	No.	2	278947.67	557895.33
31	S/S Yard lighting as per Sheet no.6	No.	1	162532.00	162532.00
32	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
33	11/0.43 KV x 100 KVA station Transformer as per Sheet no.7	No.	1	195504.70	195504.70
34	Control cables for S/S as per Sheet no.8	No.	2	178665.20	357330.40
35	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**14706975.57**
1	Transportation on material	4.00%			588279
2	T&P on material cost	1.00%			147070
3	Contigencies on material	0.50%			73535
5	Erection cost on material	5.00%			735349
6	Contractor supervision charges on material	5.00%			735349
7	Insurance , Labour & Finance Cost	2.50%			367674
	Service Cost				**2647256**
	Sub-Total				**17354231**
8	Turnkey Charges	4.00%			694169
	Total				**18048400**
9	Civil works	No.	1		5988002
	Total Cost of Estimate				**24036402**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	23004651	18048400
Civil works	7632360	5988002
Total Cost of the Estimate	30637012	24036402

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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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm2	Rmt.	150	124.91	18736.50
12	AAAC 100 mm2	Rmt.	151	50.80	7670.80
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	G.I.Nut Bolts	Kg.	50	82.89	4144.46
15	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
16	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
17	Miscelleneous material	LS	1	450.00	450.00
				Total:	**324259.67**

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	718.19	21545.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
		Total:			**188239.93**

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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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for AAAC232 sq.mm.	Nos.	36	602.56	21692.16
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 232 mm2	Rmt.	150	124.91	18736.50
11	AAAC 100 mm2	Rmt.	151	50.80	7670.80
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	12	3352.00	40224.00
b)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
17	Miscelleneous material	LS	1	450.00	450.00
				Total:	**278947.67**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
					162532.00

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**195504.70**

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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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
5	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833.00	
11	Borewell including pumpset and allied accessories. (As per table I)	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.26	
13	Construction of retaining wall. (As per table K)	647484.00	
	Total=	**5988002.024**	

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Item Code No. 0402B					
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	5205000.00	5205000.00
2	C&R panel for 22 KV Transformer with Diff. Protection	No.	1	111259.86	111259.86
3	22 kV 1000 MVA 1600 Amp.IN Door Type VCB	No.	1	985166.79	985166.79
4	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	100	1409.00	140900.00
5	22 kV Heat shrik Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	4	12873.69	51494.76
6	22 kV SF6 Isolator	No.	2	391157.28	782314.56
7	Foundation for 22 kV Isolators	Cmt.	5.2	2596.00	13499.20
8	RSJ 152x152, 13 m long	No.	2	21139.00	42278.00
9	Concreting ration 1:4:8	Cmt.	2.02	2596.08	5244.09
10	22 KV Lightning Arrestors (Screw type)	Set	1	8400.00	8400.00
11	Marshalling Box	No.	2	4200.00	8400.00
12	0.2 ACSR or equivalent AAAC Loop Connector	No.	12	820.00	9840.00
13	Clamps for 22 KV Isolator	No.	12	1020.13	12241.53
14	Transformer Clamps	No.	6	721.00	4326.00
15	AAAC 232 mm2	Mtr.	50	124.91	6245.50
16	Sundries	L.S.	1	770.00	770.00
B	**11 kV Switchgear part**				
17	11kV I D switchgear (1 I/c+1 B/c+4O/G)	Set	1	1639051.62	1639051.62
18	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	1000	1130.43	1130430.00
19	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	24	1661.61	39878.64
20	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
21	Control cables for S/S as per Sheet no.1	No.	1	248939.50	248939.50
22	Earthing complete as per Sheet no.2	Set	1	49380.75	49380.75
23	Sundries	L.S.	1	770.00	770.00
	Cost of material				**10565830.79**

1	Transportation on material	4.00%	422633
2	T&P on material cost	1.00%	105658
3	Contigencies on material	0.50%	52829
5	Erection cost on material	5.00%	528292
6	Contractor supervision charges on material	5.00%	528292
7	Insurance , Labour & Finance Cost	2.50%	264146
	Service Cost		**1901850**
	Sub-Total		**12467680**
8	Turnkey Charges	4.00%	498707
	Total		**12966388**
9	Civil Works for plinth and other foundation works	L.S.	5149441
	Total Cost of Estimate		**18115829**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	16527073	12966388
Civil works	6563523	5149441
Total Cost of the Estimate	23090596	18115829

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MSEDCL

Sheet No - 1

Cost data for Control cable 22/11 KV 1x10 MVA Intdoor 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	319.36	63872.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Mtr.	200	211.92	42384.00
3	Armoured Copper control cable 4C X 2.5 Sq mm	Mtr.	200	180.20	36040.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Mtr.	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	100	75.89	7589.00
6	Cable Trays 2.5 Mtr. X 6" W	No.	100	333.00	33300.00
7	G.I Angles (50X50X6mm) forcable tray	Kg.	400	64.78	25912.00
8	Sand	Cmt.	150	210.13	31519.50
9	Sundries e.g. Ferulls, Glands, Lugs etc.	L.S.	1	2750.00	2750.00
				Total	248939.50

Sheet No. 2

Cost data for Earthing Work at 22/11 KV for 1X10 MVA Intdoor Sub stn.

Sr. No	Description	Unit	Qty.	Rate/Unit Rs.	Total Cost Rs.
1	Earthing HDG Flat 75 X 10 mm	kg.	150	61.55	9232.50
2	Earthing HDG Flat 50 X 6 mm	kg.	75	61.55	4616.25
3	C.I. Plates 2' X 2'	No.	4	242.00	968.00
4	C.I. Pipes 4" dia 3 Metre Long	No.	4	7088.00	28352.00
5	Salt	kg.	300	6.00	1800.00
6	Coal	kg.	300	5.54	1662.00
7	Sundries e.g. Ferulls, Glands, Lugs etc.	L.S.	1	2750.00	2750.00
				Total	49380.75

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) Indoor	103763	
2	Control room (As per table B) Indoor	3330411.052	
3	Store room of size 8.0m X 6.0 m (As per table C) Indoor	0	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D) Indoor	144664.5	
7	Chain link fencing and Bar bed wire fencing (As per table E) Indoor	208965.04	
8	Metal Spreading (As per table F) Indoor	62646	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) Indoor	70460.4	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Indoor	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) Indoor	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) Indoor	106943.98	
13	Construction of retaining wall. (As per table K) Indoor	336024.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L)	575937.20	
	Total=	**5149441.176**	

MSEDCL

Item Code No.0403C					
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	11467.00	34401.00
2	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
3	22 KV Isolators without EB (800 Amp.)	Set	4	39000.00	156000.00
4	22 KV Post Insulator	Nos	6	835.00	5010.00
5	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	2	171361.53	342723.07
6	Disc Insulator 11 KV 7000 KG.	Nos	72	344.48	24802.56
7	AAAC 232 mm2	MTR	200	124.91	24982.00
8	Strain Hardware for AAAC232 sq.mm.	Nos	12	602.56	7230.72
9	Earthing complete as per Sheet no.2	Set	2	234229.08	468458.15
10	Power Transformer 22/11 KV, 5 MVA (DY-11)	No	2	3095000.00	6190000.00
11	22 KV P.T.	Nos	3	17750.00	53250.00
12	22 KV C.T. Three core.	Nos	6	24964.00	149784.00
13	22 KV VCB complete 1600 Amp (O.D.)	Set	3	180000.00	540000.00
14	C&R panel for 22 KV Transformer with 1 A relay	No	2	51655.23	103310.46
15	C&R panel for 22 KV feeder breaker	No	1	75556.18	75556.18
16	22 kV Pin Insulators with G.I. Pins	Nos	24	335.98	8063.41
17	Structure for 22 KV CT & PT as per Sheet no.3	No	2	47173.08	94346.15
18	G.I.Nut Bolts	KG	150	82.89	12433.39
19	Marshalling Box	Nos.	4	4200.00	16800.00
B	**11 KV SIDE**				
20	11kV I D switchgear (2 I/c+1 B/c+8O/G)	Set	1	3005005.74	3005005.74
21	XLPE Cable 11 KV, 3 C / 300 mm sq.	MTR	1600	1130.43	1808688.00
22	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
23	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	20	1661.61	33232.20
24	Clamps and Connectors as per Sheet no.4	No.	1	88128.73	88128.73
25	S/S Yard lighting as per Sheet no.5	No.	1	162532.00	162532.00
26	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
27	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	No.	1	200054.70	200054.70
28	Control cables for S/S as per Sheet no.7	No.	1	178665.20	178665.20
29	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**14027718.62**

1	Transportation on material	4.00%	561109
2	T&P on material cost	1.00%	140277
3	Contigencies on material	0.50%	70139
5	Erection cost on material	5.00%	701386
6	Contractor supervision charges on material	5.00%	701386
7	Insurance , Labour & Finance Cost	2.50%	350693
	Service Cost		**2524989**
	Sub-Total		**16552708**
8	Turnkey Charges	4.00%	662108
	Total		**17214816**
9	Civil Works for plinth and other foundation works	L.S.	6045709
	Total Cost of Estimate		**23260526**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	21942157	17214816
Civil works	7705915	6045709
Total Cost of the Estimate	29648072	23260526

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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	45587.00	135666.91
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.783	45587.00	35694.62
				Total:	**171361.53**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	0	242.00	0.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**234229.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	733.15	21994.56
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
				Total:	**88128.73**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
					162532.00

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**200054.70**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
5	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) Hybrid	129568	
2	Control room (As per table B) Hybrid	3330411.052	
3	Store room of size 8.0m X 6.0 m (As per table C) Hybrid	0	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D) Hybrid	149814.5	
7	Chain link fencing and Bar bed wire fencing (As per table E) Hybrid	607002.415	
8	Metal Spreading (As per table F) Hybrid	130745	
9	Foundations for structures and equipments (for 2 t/f bays)	845159	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) Hybrid	48833	
11	Borewell including pumpset and allied accessories. (As per table I) Hybrid	73303	
12	Const.of cable trench with covers in S/Yard. (As per table J) Hybrid	285085.264	
13	Construction of retaining wall. (As per table K) Hybrid	345788	
	Total=	**6045709.231**	

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	737309.45	8847713.42
2	22 KV Isolators without EB (800 Amp.)	Set	3	39000.00	117000.00
3	22 KV P.T.	No.	3	17750.00	53250.00
4	100 KVA, 22/0.4 KV with Dist. Box as per Sht.No.6.	Set	1	262629.69	262629.69
5	Battery set 30 Volt, 100 AH with Battery charger	Set	1	70000.00	70000.00
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	393766.04	393766.04
7	AC Distribution Board 'B' type	Nos.	1	25660.96	25660.96
8	Fire Extinguisher with stand	LS	1	4200.00	4200.00
9	Switchyard lighting(As per Sht.no.4)	Nos.	1	115287.28	115287.28

	Cost of material			**9889507.39**
1	Transportation on material	4.00%		395580
2	T&P on material cost	1.00%		98895
3	Contigencies on material	0.50%		49448
5	Erection cost on material	5.00%		494475
6	Contractor supervision charges on material	5.00%		494475
7	Insurance , Labour & Finance Cost	2.50%		247238
	Service Cost			**1780111**
	Sub-Total			**11669619**
8	Turnkey Charges	4.00%		466785
	Total			**12136403**
9	Civil works	No.	1	5565423
	Total Cost of Estimate			**17701826**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	15469167	12136403
Civil works	7093737	5565423
Total Cost of the Estimate	22562904	17701826

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Sheet A

22 KV FEEDER BAY

Sr.No.	**Description of Material**	**Unit**	**Qty.**	**Rate**	**Amt.**
1	22 KV Lightning Arrestors (Screw type)	Set	1	8400.00	8400.00
2	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
3	22 KV Isolators without EB (800 Amp.)	Set	1	39000.00	39000.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
5	CT 200-100/1-1 A , 22 KV	Nos.	3	23733.00	71199.00
6	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	75554.23	75554.23
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	306659.46	306659.46
8	Earthing as per Sheet (E)	L.S.	1	12896.76	12896.76

Cost of material **737309.45**

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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	50.78	12695.00
2	Structure for 22 KV CT	Kg.	315	50.78	15995.70
3	Gantry Structures	Kg.	1000	57.74	57740.00
4	G.I.Nut Bolts	Kg.	100	82.89	8288.92
5	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**106819.62**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 22 KV Isolators	Cmt.	1.3	2596.00	3374.80
2	Foundation for 22 KV Isolators without EB	Cmt.	1.3	2596.00	3374.80
3	Foundation for 22 KV Lightning Arrestor	Cmt.	1.3	2596.00	3374.80
4	Foundation for 22 KV C.Ts	Cmt.	1.3	2596.00	3374.80
5	Foundation for 22 KV Breaker	Cmt.	1.3	2596.00	3374.80
6	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**23623.60**
C)	**BUS-BAR MATERIAL**				
1	AAAC 232 mm2	Mtrs.	25	124.91	3122.75
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	12	845.13	10141.56
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	12	344.48	4133.76
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
				Sub Total:	**138780.59**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	-	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

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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	45587.00	135666.91
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.783	45587.00	35694.62
				Total:	**171361.53**

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	48.20	6748.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	2	6638.26	13276.52
3	Coal	Kg.	200	5.54	1108.00
4	Salt	Kg.	200	6.00	1200.00
5	RCC Ring work for earthing pits	No.	2	242.00	484.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**23586.52**

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	50.78	15995.70
2	Structure for 22 KV H/G.	Kg.	155	50.78	7870.90
3	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**26353.28**

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	3060.00	30600.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	10	4815.00	48150.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	175	75.89	13280.75
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	75	75.01	5625.75
5	Concreting ration 1:4:8	Cmt	5.5	2596.08	14278.45
6	Red Bricks	No.	850	2.42	2057.00
7	Sand	Cum	2.5	210.13	525.33
8	Sundries	L.S.	-	770.00	770.00
				Total:	**115287.28**

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	3352.00	100560.00
b)	DOG TO DOG or equivalent AAAC			558.59	0.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
				Total:	**123198.67**

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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	183000.00	183000.00
2	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
3	22KV A.B.Switch	Nos.	1	12050.00	12050.00
4	L.A.s 22KV (Gapless type) with disconnector	Set	1	2200.00	2200.00
5	22 kV Pin Insulators with G.I. Pins	No.s	3	335.98	1007.93
6	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
7	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
8	Earthing Sets H.T	Nos.	3	335.51	1006.53
9	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
10	Coal	Kg.	200	5.54	1108.00
11	Salt	Kg.	200	6.00	1200.00
12	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
13	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
14	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**262629.69**

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	55.73	5573.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	5	333.00	1665.00
3	G.I Angles (50X50X6mm) forcable tray	Kg.	10	64.78	647.80
4	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**8335.80**

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	124.91	24982.00
2	Disc Insulator 11 KV 7000 KG.	Nos.	24	344.48	8267.52
3	Strain Hardware for AAAC232 sq.mm.	Nos.	12	602.56	7230.72
4	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**40930.24**

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)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments for switching station	422579.5	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833	
11	Borewell including pumpset and allied accessories. (As per table I)	73303	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.264	
13	Construction of retaining wall. (As per table K)	647484	
	Total=	**5565422.524**	

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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	539972.23	6479666.71
2	11 KV Isolators without EB (800 Amp.)	Set	3	22400.00	67200.00
3	11 KV PT	Set	1	7696.00	7696.00
4	100 KVA, 11/0.4 KV with Dist. Box as per Sht.No.6.	Set	1	179277.08	179277.08
5	Battery set 30 Volt, 100 AH with Battery charger	Set	1	70000.00	70000.00
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	299138.35	299138.35
7	AC Distribution Board 'B' type	Nos.	1	25660.96	25660.96
8	Fire Extinguisher with stand	LS	1	4200.00	4200.00
9	Switchyard lighting(As per Sht.no.4)	Nos.	1	115287.28	115287.28
	Cost of material				**7248126.38**

1	Transportation on material	4.00%	289925
2	T&P on material cost	1.00%	72481
3	Contigencies on material	0.50%	36241
5	Erection cost on material	5.00%	362406
6	Contractor supervision charges on material	5.00%	362406
7	Insurance , Labour & Finance Cost	2.50%	181203
	Service Cost		**1304663**
	Sub-Total		**8552789**
8	Turnkey Charges	4.00%	342112
	Total		**8894901**
9	Civil work as per sheet No.9		5565423
	Tatal Cost of Estimate		**14460323**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	11337519	8894901
Civil works	7093737	5565423
Total Cost of the Estimate	18431256	14460323

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Sheet No. A

11 KV FEEDER BAY

Sr.No.	**Description of Material**	**Unit**	**Qty.**	**Rate**	**Amt.**
1	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
2	11 KV Isolators with EB (800 A)	Set	1	26000.00	26000.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	22400.00	22400.00
4	11 KV VCB 400 A Outdoor	Set	1	142500.00	142500.00
5	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	13400.00	40200.00
6	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	75556.18	75556.18
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	219319.29	219319.29
8	Earthing as per Sheet (E)	L.S.	1	12896.76	12896.76

Cost of material **539972.23**

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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	50.78	12695.00
2	Structure for 11 KV CT	Kg.	315	50.78	15995.70
3	Gantry Structures	Kg.	1000	57.74	57740.00
4	G.I.Nut Bolts	Kg.	100	82.89	8288.92
5	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**106819.62**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 11 kV Isolators	Cmt.	1.3	2596.08	3374.91
2	Foundation for 11 kV Isolators without EB	Cmt.	1.3	2596.08	3374.91
3	Foundation for 11 kV Lightning Arrestor	Cmt.	1.3	2596.00	3374.80
4	Foundation for 11 kV C.Ts	Cmt.	1.3	2596.00	3374.80
5	Foundation for 11 kV Breaker	Cmt.	1.3	2596.00	3374.80
6	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**23623.81**
C)	**BUS-BAR MATERIAL**				
1	AAAC 100 mm2	Mtrs.	25	50.80	1270.00
2	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	558.59	16757.76
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	12	845.13	10141.56
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	12	344.48	4133.76
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	6	321.66	1929.96
				Sub Total:	**51440.20**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	-	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

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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	45587.00	135666.91
2	Beam type HA(2 Nos.)-261.0 Kg.	MT	0.783	45587.00	35694.62
				Total:	**171361.53**

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	48.20	6748.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	2	6638.26	13276.52
3	Coal	Kg.	200	5.54	1108.00
4	Salt	Kg.	200	6.00	1200.00
5	RCC Ring work for earthing pits	No.	2	242.00	484.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**23586.52**

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	50.78	15995.70
2	Structure for 11 KV H/G.	Kg.	155	50.78	7870.90
3	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**26353.28**

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	3060.00	30600.00
	& 250w SV Lamp				
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	10	4815.00	48150.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	175	75.89	13280.75
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	75	75.01	5625.75
5	Concreting ration 1:4:8	Cmt	5.5	2596.08	14278.45
6	Red Bricks	No.	850	2.42	2057.00
7	Sand	Cum	2.5	210.13	525.33
8	Sundries	L.S.	-	770.00	770.00
				Total:	**115287.28**

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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	558.59	16757.76
2	clamps for Isolator	Nos.	18	845.13	15212.34
3	Clamp for PT	Nos.	3	1450.00	4350.00
		Total:			**36320.10**

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	105000.00	105000.00
2	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
3	11KV A.B. Switch	Nos.	1	8400.00	8400.00
4	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
5	11 kV Pin Insulators with G.I. Pins	No.s	3	135.11	405.32
6	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
7	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
8	Earthing Sets H.T	Nos.	3	335.51	1006.53
9	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
10	Coal	Kg.	200	5.54	1108.00
11	Salt	Kg.	200	6.00	1200.00
12	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
13	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
14	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
		Total:			**179277.08**

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	55.73	5573.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	5	333.00	1665.00
3	G.I Angles (50X50X6mm) forcable tray	Kg.	10	64.78	647.80
4	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**8335.80**

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	124.91	24982.00
2	Disc Insulator 11 KV 7000 KG.	Nos.	12	344.48	4133.76
3	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
4	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**33181.12**

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)	187840	
2	Control room (As per table B) outdoor	1958424.32	
3	Store room of size 8.0m X 6.0 m (As per table C)	490499.44	
4	Sanitory Water supply	0	
5	Electrification (Lumsum)	100000	
6	WBM Road (As per table D)	298243.5	
7	Chain link fencing and Bar bed wire fencing (As per table E)	922185.5	
8	Metal Spreading (As per table F)	130945	
9	Foundations for structures and equipments for switching station	422579.5	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H)	48833	
11	Borewell including pumpset and allied accessories. (As per table I)	73303	
12	Const.of cable trench with covers in S/Yard. (As per table J)	285085.264	
13	Construction of retaining wall. (As per table K)	647484	
	Total=	**5565422.524**	

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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	13094.00	13094.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	1	46750.00	46750.00
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
5	CT 200-100/1-1 A , 33 KV	Nos.	3	23733.00	71199.00
6	C&R panel for 33 KV for feeder breaker	Nos.	1	85545.18	85545.18
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	315721.12	315721.12
8	Marshalling Box	No	1	4200.00	4200.00
9	Earthing as per Sheet (E)	L.S.	1	12896.76	12896.76

	Cost of material		**786406.06**
1	Transportation on material	4.00%	31456
2	T&P on material cost	1.00%	7864
3	Contigencies on material	0.50%	3932
5	Erection cost on material	5.00%	39320
6	Contractor supervision charges on material	5.00%	39320
7	Insurance , Labour & Finance Cost	2.50%	19660
	Service Cost		**141553**
	Sub-Total		**927959**
8	Turnkey Charges	4.00%	37118
	Total		**965078**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1230096	965078
Total Cost of the Estimate	1230096	965078

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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	50.78	12695.00
2	Structure for 33 KV CT	Kg.	315	50.78	15995.70
3	Gantry Structures	Kg.	1000	57.74	57740.00
4	G.I.Nut Bolts	Kg.	100	82.89	8288.92
5	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**106819.62**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 33 kV Isolators with EB	Cmt.	1.3	2892.00	3759.60
2	Foundation for 33 kV Isolators without EB	Cmt.	1.3	2892.00	3759.60
3	Foundation for 33 kV C.Ts	Cmt.	1.3	2892.00	3759.60
4	Foundation for 33 kV Lightning Arrestor	Cmt.	1.3	2892.00	3759.60
5	Foundation for 33 kV Breaker	Cmt.	1.3	2892.00	3759.60
6	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**25547.60**
C)	**BUS-BAR MATERIAL**				
1	AAAC 232 mm2	Mtrs.	25	124.91	3122.75
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	18	845.13	15212.34
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	18	344.48	6200.64
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
				Sub Total:	**145918.25**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	L.S.	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	8400.00	8400.00
2	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
3	22 KV Isolators without EB (800 Amp.)	Set	1	39000.00	39000.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
5	CT 200-100/1-1 A , 22 KV	Nos.	3	23733.00	71199.00
6	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	75554.23	75554.23
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	306659.46	306659.46
8	Marshalling Box	No	1	4200.00	4200.00
9	Earthing as per Sheet (E)	L.S.	1	12896.76	12896.76
	Cost of material				741509.45

1	Transportation on material	4.00%	29660
2	T&P on material cost	1.00%	7415
3	Contigencies on material	0.50%	3708
5	Erection cost on material	5.00%	37075
6	Contractor supervision charges on material	5.00%	37075
7	Insurance , Labour & Finance Cost	2.50%	18538
	Service Cost		**133472**
	Sub-Total		**874981**
8	Turnkey Charges	4.00%	34999
	Total		**909980**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1159869	909980
Total Cost of the Estimate	1159869	909980

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MSEDCL

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	50.78	12695.00
2	Structure for 22 KV CT	Kg.	315	50.78	15995.70
3	Gantry Structures	Kg.	1000	57.74	57740.00
4	G.I.Nut Bolts	Kg.	100	82.89	8288.92
5	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**106819.62**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 22 kV Isolators	Cmt.	1.3	2596.00	3374.80
2	Foundation for 22 kV Isolators without EB	Cmt.	1.3	2596.00	3374.80
3	Foundation for 22 kV Lightning Arrestor	Cmt.	1.3	2596.00	3374.80
4	Foundation for 22 kV C.Ts	Cmt.	1.3	2596.00	3374.80
5	Foundation for 22 kV Breaker	Cmt.	1.3	2596.00	3374.80
6	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**23623.60**
C)	**BUS-BAR MATERIAL**				
1	AAAC 232 mm2	Mtrs.	25	124.91	3122.75
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Noa	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	12	845.13	10141.56
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	12	344.48	4133.76
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
				Sub Total:	**138780.59**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	-	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

MSEDCL

Item Code 0603					
11 KV FEEDER BAY					
Sr.No.	**Description of Material**	**Unit**	**Qty.**	**Rate**	**Amt.**
1	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
2	11 KV Isolators with EB (800 A)	Set	1	26000.00	26000.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	22400.00	22400.00
4	11 KV VCB 400 A Outdoor	Set	1	142500.00	142500.00
5	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	13400.00	40200.00
6	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	75556.18	75556.18
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	306659.68	306659.68
8	Marshalling Box	No	1	4200.00	4200.00
9	Earthing as per Sheet (E)	L.S.	1	12896.76	12896.76
	Cost of material				**631512.62**

1	Transportation on material	4.00%	25261
2	T&P on material cost	1.00%	6315
3	Contigencies on material	0.50%	3158
5	Erection cost on material	5.00%	31576
6	Contractor supervision charges on material	5.00%	31576
7	Insurance , Labour & Finance Cost	2.50%	15788
	Service Cost		**113672**
	Sub-Total		**745185**
8	Turnkey Charges	4.00%	29807
	Total		**774992**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount(Rural)**
	56.42%	**22.72%**
Cost with overheads on Material	987812	774992
Total Cost of the Estimate	987812	774992

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MSEDCL

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	50.78	12695.00
2	Structure for 11 KV CT	Kg.	315	50.78	15995.70
3	Gantry Structures	Kg.	1000	57.74	57740.00
4	G.I.Nut Bolts	Kg.	100	82.89	8288.92
5	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**106819.62**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 11 kV Isolators	Cmt.	1.3	2596.08	3374.91
2	Foundation for 11 kV Isolators without EB	Cmt.	1.3	2596.08	3374.91
3	Foundation for 11 kV Lightning Arrestor	Cmt.	1.3	2596.00	3374.80
4	Foundation for 11 kV C.Ts	Cmt.	1.3	2596.00	3374.80
5	Foundation for 11 kV Breaker	Cmt.	1.3	2596.00	3374.80
6	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**23623.81**
C)	**BUS-BAR MATERIAL**				
1	AAAC 232 mm2	Mtrs.	25	124.91	3122.75
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	12	845.13	10141.56
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	12	344.48	4133.76
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
				Sub Total:	**138780.59**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	-	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

MSEDCL

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	13094.00	13094.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	1	46750.00	46750.00
4	33 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
5	CT 200-100/1-1 A , 33 KV	Nos.	3	23733.00	71199.00
6	C&R panel for 33 KV for feeder breaker	Nos.	1	85545.18	85545.18
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	252910.34	252910.34
8	Marshalling Box	No	1	4200.00	4200.00
9	Earthing as per Sheet (E)	L.S.	1	12896.76	12896.76
	Cost of material				**723595.28**

1	Transportation on material	4.00%	28944
2	T&P on material cost	1.00%	7236
3	Contigencies on material	0.50%	3618
5	Erection cost on material	5.00%	36180
6	Contractor supervision charges on material	5.00%	36180
7	Insurance , Labour & Finance Cost	2.50%	18090
	Service Cost		**130247**
	Sub-Total		**853842**
8	Turnkey Charges	4.00%	34154
	Total		**887996**

Perticulars	**More than Rs. 40 Crs**	
	DPR Amount	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1131848	887996
Total Cost of the Estimate	1131848	887996

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MSEDCL

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	50.78	12695.00
2	Structure for 33 KV CT	Kg.	315	50.78	15995.70
3	G.I.Nut Bolts	Kg.	100	82.89	8288.92
4	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**49079.62**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 33 kV Isolators with EB	Cmt.	1.3	2892.00	3759.60
2	Foundation for 33 kV Isolators without EB	Cmt.	1.3	2892.00	3759.60
3	Foundation for 33 kV C.Ts	Cmt.	1.3	2892.00	3759.60
4	Foundation for 33 kV Lightning Arrestor	Cmt.	1.3	2892.00	3759.60
5	Foundation for 33 kV Breaker	Cmt.	1.3	2892.00	3759.60
6	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**25547.60**
C)	**BUS-BAR MATERIAL**				
1	AAAC 232 mm2	Mtrs.	25	124.91	3122.75
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	12	845.13	10141.56
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	18	344.48	6200.64
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
				Sub Total:	**140847.47**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	L.S.	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

MSEDCL

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	8400.00	8400.00
2	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
3	22 KV Isolators without EB (800 Amp.)	Set	1	39000.00	39000.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
5	CT 200-100/1-1 A , 22 KV	Nos.	3	23733.00	71199.00
6	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	75554.23	75554.23
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	248919.46	248919.46
8	Marshalling Box	No	1	4200.00	4200.00
9	Earthing as per Sheet (E)	L.S.	1	12896.76	12896.76
	Cost of material				**683769.45**

1	Transportation on material	4.00%	27351
2	T&P on material cost	1.00%	6838
3	Contigencies on material	0.50%	3419
5	Erection cost on material	5.00%	34188
6	Contractor supervision charges on material	5.00%	34188
7	Insurance , Labour & Finance Cost	2.50%	17094
	Service Cost		**123079**
	Sub-Total		**806848**
8	Turnkey Charges	4.00%	32274
	Total		**839122**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1069552	839122
Total Cost of the Estimate	1069552	839122

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MSEDCL

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	50.78	12695.00
2	Structure for 22 KV CT	Kg.	315	50.78	15995.70
3	G.I.Nut Bolts	Kg.	100	82.89	8288.92
4	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**49079.62**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 22 kV Isolators	Cmt.	1.3	2596.00	3374.80
2	Foundation for 22 kV Isolators without EB	Cmt.	1.3	2596.00	3374.80
3	Foundation for 22 kV Lightning Arrestor	Cmt.	1.3	2596.00	3374.80
4	Foundation for 22 kV C.Ts	Cmt.	1.3	2596.00	3374.80
5	Foundation for 22 kV Breaker	Cmt.	1.3	2596.00	3374.80
6	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**23623.60**
C)	**BUS-BAR MATERIAL**				
1	AAAC 232 mm2	Mtrs.	25	124.91	3122.75
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Noa	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	12	845.13	10141.56
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	12	344.48	4133.76
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
				Sub Total:	**138780.59**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	-	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

MSEDCL

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 disconector	Set	1	1100.00	1100.00
2	11 KV Isolators with EB (800 A)	Set	1	26000.00	26000.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	22400.00	22400.00
4	11 KV VCB 400 A Outdoor	Set	1	142500.00	142500.00
5	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	13400.00	40200.00
6	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	75556.18	75556.18
7	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	248919.68	248919.68
8	Marshalling Box	No	1	4200.00	4200.00
9	Earthing as per Sheet (E)	L.S.	1	12896.76	12896.76
	Cost of material				**573772.62**

1	Transportation on material	4.00%	22951
2	T&P on material cost	1.00%	5738
3	Contigencies on material	0.50%	2869
5	Erection cost on material	5.00%	28689
6	Contractor supervision charges on material	5.00%	28689
7	Insurance , Labour & Finance Cost	2.50%	14344
	Service Cost		**103279**
	Sub-Total		**677052**
8	Turnkey Charges	4.00%	27082
	Total		**704134**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	897495	704134
Total Cost of the Estimate	897495	704134

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MSEDCL

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	50.78	12695.00
2	Structure for 11 KV CT	Kg.	315	50.78	15995.70
3	G.I.Nut Bolts	Kg.	100	82.89	8288.92
4	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**49079.62**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 11 kV Isolators	Cmt.	1.3	2596.08	3374.91
2	Foundation for 11 kV Isolators without EB	Cmt.	1.3	2596.08	3374.91
3	Foundation for 11 kV Lightning Arrestor	Cmt.	1.3	2596.00	3374.80
4	Foundation for 11 kV C.Ts	Cmt.	1.3	2596.00	3374.80
5	Foundation for 11 kV Breaker	Cmt.	1.3	2596.00	3374.80
6	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**23623.81**
C)	**BUS-BAR MATERIAL**				
1	AAAC 232 mm2	Mtrs.	25	124.91	3122.75
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	12	845.13	10141.56
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	12	344.48	4133.76
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
				Sub Total:	**138780.59**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	-	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

MSEDCL

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	13094.00	13094.00
2	33 KV Isolators with EB (800 A)	Set	1	57000.00	57000.00
3	33 KV Isolators without EB (800 Amp.)	Set	2	46750.00	93500.00
4	33 KV VCB complete 1600 Amp (O.D.)	No	1	180000.00	180000.00
5	33 KV P.T.	No	3	18898.49	56695.48
6	CT 200-100/1-1 A , 33 KV	No	3	23733.00	71199.00
7	C&R panel for 33 KV for feeder breaker	Set	1	85545.18	85545.18
8	Marshalling Box	No	1	4200.00	4200.00
9	Structure and foundation cables, clamps, painting etc. as per Table (A+B+C+D+F)	LS	1	330020.84	330020.84
10	Earthing as per Table (E)	LS	1	12896.76	12896.76
	Cost of material				904151.26

1	Transportation on material	4.00%	36166
2	T&P on material cost	1.00%	9042
3	Contigencies on material	0.50%	4521
5	Erection cost on material	5.00%	45208
6	Contractor supervision charges on material	5.00%	45208
7	Insurance , Labour & Finance Cost	2.50%	22604
	Service Cost		**162747**
	Sub-Total		**1066898**
8	Turnkey Charges	4.00%	42676
	Total		**1109574**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1414273	1109574
Total Cost of the Estimate	1414273	1109574

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MSEDCL

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	50.78	12695.00
2	Structure for 33 KV CT	Kg.	315	50.78	15995.70
3	Structure for 33 KV PT	Kg.	315	50.78	15995.70
4	Gantry Structures	Kg.	1000	57.74	57740.00
5	G.I.Nut Bolts	Kg.	100	82.89	8288.92
6	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**122815.32**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 33 kV Isolators with EB	Cmt.	1.3	2892.00	3759.60
2	Foundation for 33 kV Isolators without EB	Cmt.	1.3	2892.00	3759.60
3	Foundation for 33 kV C.Ts	Cmt.	1.3	2892.00	3759.60
4	Foundation for 33 kV P.Ts	Cmt.	1.3	2596.00	3374.80
5	Foundation for 33 kV Lightning Arrestor	Cmt.	1.3	2892.00	3759.60
6	Foundation for 33 kV Breaker	Cmt.	1.3	2892.00	3759.60
7	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**28922.40**
C)	**BUS-BAR MATERIAL**				
1	AAAC 232 mm2	Mtrs.	25	124.91	3122.75
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	12	845.13	10141.56
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	18	344.48	6200.64
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
				Sub Total:	**140847.47**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	L.S.	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

MSEDCL

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	8400.00	8400.00
2	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
3	22 KV Isolators without EB (800 Amp.)	Set	1	39000.00	39000.00
4	22 KV VCB complete 1600 Amp (O.D.)	Set	1	180000.00	180000.00
5	22 KV P.T.	No	3	17750.00	53250.00
6	CT 200-100/1-1 A , 22 KV	Nos.	3	23733.00	71199.00
7	Control C&R Panel 22 KV for feeder with accessories.	Nos.	1	75554.23	75554.23
8	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	306659.46	306659.46
9	Marshalling Box	No	1	4200.00	4200.00
10	Earthing as per Sheet (E)	L.S.	1	12896.76	12896.76
	Cost of material				**794759.45**

1	Transportation on material	4.00%	31790
2	T&P on material cost	1.00%	7948
3	Contigencies on material	0.50%	3974
5	Erection cost on material	5.00%	39738
6	Contractor supervision charges on material	5.00%	39738
7	Insurance , Labour & Finance Cost	2.50%	19869
	Service Cost		**143057**
	Sub-Total		**937816**
8	Turnkey Charges	4.00%	37513
	Total		**975329**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1243163	975329
Total Cost of the Estimate	1243163	975329

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MSEDCL

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	50.78	12695.00
2	Structure for 22 KV CT	Kg.	315	50.78	15995.70
3	Gantry Structures	Kg.	1000	57.74	57740.00
4	G.I.Nut Bolts	Kg.	100	82.89	8288.92
5	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**106819.62**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 22 kV Isolators	Cmt.	1.3	2596.00	3374.80
2	Foundation for 22 kV Isolators without EB	Cmt.	1.3	2596.00	3374.80
3	Foundation for 22 kV Lightning Arrestor	Cmt.	1.3	2596.00	3374.80
4	Foundation for 22 kV C.Ts	Cmt.	1.3	2596.00	3374.80
5	Foundation for 22 kV Breaker	Cmt.	1.3	2596.00	3374.80
6	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**23623.60**
C)	**BUS-BAR MATERIAL**				
1	AAAC 232 mm2	Mtrs.	25	124.91	3122.75
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Noa	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	12	845.13	10141.56
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	12	344.48	4133.76
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
				Sub Total:	**138780.59**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	-	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

MSEDCL

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 disconector	Set	1	1100.00	1100.00
2	11 KV Isolators with EB (800 A)	Set	1	26000.00	26000.00
3	11 KV Isolators without EB (800 Amp.)	Set	1	22400.00	22400.00
4	11 KV VCB 400 A Outdoor	Set	1	142500.00	142500.00
5	11 KV PT	No	3	7696.00	23088.00
6	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	13400.00	40200.00
7	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	75556.18	75556.18
8	Structure and foundation cables, clamps, painting etc.as per sheet (A+B+C+D+F)	L.S.	1	326030.18	326030.18
9	Marshalling Box	No	1	4200.00	4200.00
10	Earthing as per Sheet (E)	L.S.	1	12896.76	12896.76
	Cost of material				**673971.12**

1	Transportation on material	4.00%	26959
2	T&P on material cost	1.00%	6740
3	Contigencies on material	0.50%	3370
5	Erection cost on material	5.00%	33699
6	Contractor supervision charges on material	5.00%	33699
7	Insurance , Labour & Finance Cost	2.50%	16849
	Service Cost		**121315**
	Sub-Total		**795286**
8	Turnkey Charges	4.00%	31811
	Total		**827097**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1054226	827097
Total Cost of the Estimate	1054226	827097

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MSEDCL

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	50.78	12695.00
2	Structure for 11 KV CT	Kg.	315	50.78	15995.70
3	Structure for 11 KV PT	Kg.	315	50.78	15995.70
4	Gantry Structures	Kg.	1000	57.74	57740.00
5	G.I.Nut Bolts	Kg.	100	82.89	8288.92
6	Welding Rods	Nos.	5000	2.42	12100.00
				Sub Total	**122815.32**
B)	**FOUNDATION(Civil works)**				
1	Foundation for 11 kV Isolators	Cmt.	1.3	2596.08	3374.91
2	Foundation for 11 kV Isolators without EB	Cmt.	1.3	2596.08	3374.91
3	Foundation for 11 kV Lightning Arrestor	Cmt.	1.3	2596.00	3374.80
4	Foundation for 11 kV C.Ts	Cmt.	1.3	2596.00	3374.80
5	Foundation for 11 kV P.Ts	Cmt.	1.3	2596.00	3374.80
6	Foundation for 11 kV Breaker	Cmt.	1.3	2596.00	3374.80
7	Foundation for Gantry Structures	Cmt.	2.6	2596.00	6749.60
				Sub Total:	**26998.61**
C)	**BUS-BAR MATERIAL**				
1	AAAC 232 mm2	Mtrs.	25	124.91	3122.75
2	Wedge Connectors				
a)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
3	Breaker Clamps	Nos.	6	1687.53	10125.18
4	clamps for Isolator	Nos.	12	845.13	10141.56
5	Clamps for CTs	Nos.	6	1180.33	7081.98
6	Disc Insulator 11 KV 7000 KG.	Nos.	12	344.48	4133.76
7	Strain Hardware for AAAC232 sq.mm.	Nos.	6	602.56	3615.36
				Sub Total:	**138780.59**
D)	**CONTROL CABLE**				
1 a)	Armoured Copper control cable 19C X 2.5 Sq mm	Rmt.	50	319.36	15968.00
b)	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt.	40	55.73	2229.20
c)	Armoured Copper control cable 2Cx4 sq.mm.	Rmt.	50	89.18	4459.00
2	Cable Trays 2.5 Mtr. X 6" W	Nos.	10	333.00	3330.00
3	Cable Glands,rerules and tape etc.	L.S.	-	523.68	523.68
4	Angle for fixing trays 50x50x6mm	Kg.	20	50.78	1015.60
5	Half round cement pipe (150mm X 1mtr)	Nos.	80	100.00	8000.00
6	Sand	Cmt.	4	210.13	840.52
				Sub Total:	**36366.00**
E)	**EARTHING WORK**				
1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**
F)	**PAINTING OF STRUCTURE**				
1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	556548.07	556548.07
2	Earthing as per Table No 1	No	1	12896.76	12896.76
3	11 KV Takeoff Structure as per Table No 2	No	1	199769.31	199769.31
4	Painting of structure as per Table No 4	No	1	1069.65	1069.65
	TOTAL COST OF MATERIAL				**770283.79**

1	Transportation on material	4.00%	30811
2	T&P on material cost	1.00%	7703
3	Contigencies on material	0.50%	3851
5	Erection cost on material	5.00%	38514
6	Contractor supervision charges on material	5.00%	38514
7	Insurance , Labour & Finance Cost	2.50%	19257
	Service Cost		**138651**
	Sub-Total		**908935**
8	Turnkey Charges	4.00%	36357
	Total		**945292**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1204878	945292
Total Cost of the Estimate	1204878	945292

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Table No 1 **EARTHING WORK**

1	M.S. Flats(50 X 10mm)	Kg.	50	47.55	2377.50
2	M.S.Flat 25x6 mm	Kg.	20	47.55	951.00
3	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	Nos.	1	6638.26	6638.26
4	Coal	Kg.	100	5.54	554.00
5	Salt	Kg.	100	6.00	600.00
6	Welding Rods	Nos.	50	2.42	121.00
7	Hiring of Welding machine	Nos.	1	225.00	225.00
8	Brick & Masonary works for earthing pit	Nos.	1	1430.00	1430.00
				Sub Total:	**12896.76**

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	9073.00	54438.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
6	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
7	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
8	Earthing Sets H.T	Sets	3	335.51	1006.53
9	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
10	AAAC 100 mm2	Rmt.	150	50.80	7620.00
11	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
12	G.I.Nut Bolts	Kg.	50	82.89	4144.46
13	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
14	Miscelleneous material	LS	1	450.00	450.00
				Total:	**199769.31**

Table No. 4 **PAINTING OF STRUCTURE**

1	Red Oxide Paint for 2 coats	Ltrs.	10	60.00	600.00
2	Aluminium Paint for 1 coat	Ltrs.	5	93.93	469.65
				Sub Total:	**1069.65**

MSEDCL

Item Code No. 0701					
Cost data for 1 Km. 33 KV S/C Line with 100 mm2 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	19513.00	273182.00
2	RSJ 152x152, 11 m long	No.	2.00	17887.00	35774.00
3	MS Channel 100x50x6 mm	Kg.	495.00	50.78	25136.10
4	M.S.Channel 75x40x6 mm	Kg.	91.00	50.78	4620.98
5	MS angle 50x50x6 mm	Kg.	203.00	50.78	10308.34
6	MS Flat 75x10 mm	Kg.	89.00	47.55	4231.95
7	G.I.Nut Bolts	Kg.	80.00	82.89	6631.14
8	Disc Insulator 11 KV 7000 KG.	No.	153.00	344.48	52705.44
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	33.00	224.63	7412.79
10	AAAC 100 mm2	Mtrs.	3150.00	50.80	160020.00
11	H.T.Stay Set	No.	6.00	586.66	3519.96
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	56.32	3379.20
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	56.27	7315.10
14	Sleve Joints	No.	3.00	115.21	345.63
15	Danger Board in yard.	No.	14.00	50.00	700.00
16	Earthing Sets H.T	No.	14.00	335.51	4697.14
17	Concreting ration 1:3:6	cmt.	25.00	2892.26	72306.54
18	G.I.Barbed Wire `A' type.	Kg.	60.00	63.01	3780.60
19	Black bituminus paint	Ltr.	6.00	60.00	360.00
20	Red Oxide Paint for 2 coats	Ltr.	20.00	60.00	1200.00
21	Aluminium Paint for 1 coat	Ltr.	9.00	93.93	845.37
22	Sundries	LS	LS	770.00	770.00
23	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	558.59	10054.66
	Cost of material				**689296.94**

1	Transportation on material	4.00%	27572
2	T&P on material cost	1.00%	6893
3	Contigencies on material	0.50%	3446
5	Erection cost on material	15.00%	103395
6	Contractor supervision charges on material	5.00%	34465
7	Insurance , Labour & Finance Cost	2.50%	17232
	Service Cost		**193003**
	Sub-Total		**882300**
8	Turnkey Charges	4.00%	35292
	Total		**917592**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1166635	917592
Total Cost of the Estimate	1166635	917592

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.

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MSEDCL

Item Code No. 0702					
Cost data for 33 KV S/C Line Suspension type with100 mm2 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	21139.00	295946.00
2	RSJ 152x152, 11 m long	No.	2.00	17887.00	35774.00
3	MS Channel 100x50x6 mm	Kg.	495.00	50.78	25136.10
4	M.S.Channel 75x40x6 mm	Kg.	91.00	50.78	4620.98
5	MS angle 50x50x6 mm	Kg.	203.00	50.78	10308.34
6	MS Flat 75x10 mm	Kg.	89.00	47.55	4231.95
7	G.I.Nut Bolts	Kg.	80.00	82.89	6631.14
8	Disc Insulator 11 KV 7000 KG.	No.	153.00	344.48	52705.44
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	33.00	224.63	7412.79
10	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	18.00	321.66	5789.88
11	AAAC 100 mm2	Mtrs.	3150.00	50.80	160020.00
12	H.T.Stay Set	No.	6.00	586.66	3519.96
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	56.32	3379.20
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	56.27	7315.10
15	Sleve Joints	No.	3.00	115.21	345.63
16	Danger Board in yard.	No.	14.00	50.00	700.00
17	Earthing Sets H.T	No.	14.00	335.51	4697.14
18	Concreting ration 1:3:6	cmt.	25.00	2892.26	72306.54
19	G.I.Barbed Wire `A' type.	Kg.	60.00	63.01	3780.60
20	Black bituminus paint	Ltr.	6.00	60.00	360.00
21	Red Oxide Paint for 2 coats	Ltr.	20.00	60.00	1200.00
22	Aluminium Paint for 1 coat	Ltr.	9.00	93.93	845.37
23	Sundries	LS	LS	770.00	770.00
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	558.59	10054.66
	Cost of material				**717850.82**

1	Transportation on material	4.00%	28714
2	T&P on material cost	1.00%	7179
3	Contigencies on material	0.50%	3589
5	Erection cost on material	15.00%	107678
6	Contractor supervision charges on material	5.00%	35893
7	Insurance , Labour & Finance Cost	2.50%	17946
	Service Cost		**200998**
	Sub-Total		**918849**
8	Turnkey Charges	4.00%	36754
	Total		**955603**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1214963	955603
Total Cost of the Estimate	1214963	955603

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.

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Item Code No. 0703					
Cost data for 33 KV S/C Line Pin type with100 mm2 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	17887.00	304079.00
2	RSJ 116x100, 10 m long	No.	2.00	10081.00	20162.00
3	MS Channel 100x50x6 mm	Kg.	132.00	50.78	6702.96
4	M.S.Channel 75x40x6 mm	Kg.	91.00	50.78	4620.98
5	33 KV Top Fitting	No.	14.00	374.36	5241.04
6	MS angle 50x50x6 mm	Kg.	54.00	50.78	2742.12
7	M.S. Flats(50 X 10mm)	Kg.	36.00	47.55	1711.80
8	33 kV Pin Insulators with G.I. Pins	No.	42.00	541.38	22737.85
9	Disc Insulator 11 KV 7000 KG.	No.	54.00	344.48	18601.92
10	G.I.Nut Bolts	Kg.	80.00	82.89	6631.14
11	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	18.00	321.66	5789.88
12	AAAC 100 mm2	Mtrs.	3150.00	50.80	160020.00
13	H.T.Stay Set	No.	6.00	586.66	3519.96
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	56.32	3379.20
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	56.27	7315.10
16	Sleve Joints	No.	3.00	115.21	345.63
17	Danger Board in yard.	No.	17.00	50.00	850.00
18	Earthing Sets H.T	No.	17.00	335.51	5703.67
19	Concreting ration 1:3:6	cmt.	17.50	2892.26	50614.58
20	G.I.Barbed Wire `A' type.	Kg.	80.00	63.01	5040.80
21	Black bituminus paint	Ltr.	6.00	60.00	360.00
22	Red Oxide Paint for 2 coats	Ltr.	20.00	60.00	1200.00
23	Aluminium Paint for 1 coat	Ltr.	9.00	93.93	845.37
24	Sundries	LS	LS	770.00	770.00
25	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	558.59	10054.66
	Cost of material				**649039.66**

1	Transportation on material	4.00%	25962
2	T&P on material cost	1.00%	6490
3	Contigencies on material	0.50%	3245
5	Erection cost on material	15.00%	97356
6	Contractor supervision charges on material	5.00%	32452
7	Insurance , Labour & Finance Cost	2.50%	16226
	Service Cost		**181731**
	Sub-Total		**830771**
8	Turnkey Charges	4.00%	33231
	Total		**864002**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1098500	864002
Total Cost of the Estimate	1098500	864002

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) conceriting for all poles, struts & stages. (1:3:6)

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MSEDCL

Item Code No. 0704					
Cost data for 33 KV S/C Line Pin type with100 mm2 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	10081.00	171377.00
2	RSJ 116x100, 9 m long	No.	2.00	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	132.00	50.78	6702.96
4	M.S.Channel 75x40x6 mm	Kg.	91.00	50.78	4620.98
5	33 KV V Cross Arms	No.	14.00	887.79	12429.06
6	33 KV Top Fitting	No.	14.00	374.36	5241.04
7	MS angle 50x50x6 mm	Kg.	54.00	50.78	2742.12
8	M.S. Flats(50 X 10mm)	Kg.	36.00	47.55	1711.80
9	33 kV Pin Insulators with G.I. Pins	No.	42.00	541.38	22737.85
10	G.I.Nut Bolts	Kg.	80.00	82.89	6631.14
11	Disc Insulator 11 KV 7000 KG.	No.	54.00	344.48	18601.92
12	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	18.00	321.66	5789.88
13	AAAC 100 mm2	Rmt	3150.00	50.80	160020.00
14	H.T.Stay Set	No.	6.00	586.66	3519.96
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	56.32	3379.20
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	56.27	7315.10
17	Sleve Joints	No.	3.00	115.21	345.63
18	Danger Board in yard.	No.	17.00	50.00	850.00
19	Earthing Sets H.T	No.	17.00	335.51	5703.67
20	Concreting ration 1:3:6	cmt.	17.50	2892.26	50614.58
21	G.I.Barbed Wire `A' type.	Kg.	80.00	63.01	5040.80
22	Black bituminus paint	Ltr.	6.00	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20.00	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9.00	93.93	845.37
25	Sundries	LS	LS	770.00	770.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	558.59	10054.66
	Cost of material				**526750.72**

1	Transportation on material	4.00%	21070
2	T&P on material cost	1.00%	5268
3	Contigencies on material	0.50%	2634
5	Erection cost on material	15.00%	79013
6	Contractor supervision charges on material	5.00%	26338
7	Insurance , Labour & Finance Cost	2.50%	13169
	Service Cost		**147490**
	Sub-Total		**674241**
8	Turnkey Charges	4.00%	26970
	Total		**701211**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	891526	701211
Total Cost of the Estimate	891526	701211

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) conceriting for all poles, struts & stages. (1:3:6)

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
3	MS Channel 100x50x6 mm	Kg.	70	50.78	3554.60
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	AAAC 100 mm2	mtr.	100	50.80	5080.00
7	33 kV Pin Insulators with G.I. Pins	NO.	6	541.38	3248.26
8	Disc Insulator 11 KV 4500 KG.	NO.	36	244.47	8800.92
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	321.66	3859.92
10	H.T.Stay Set	No	4	586.66	2346.64
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	56.32	1126.40
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
15	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
16	Black Bituminus Paint	Ltr.	2	60.00	120.00
17	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
18	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
19	Concreting ration 1:3:6	CMT.	4	2892.26	11569.05
20	Sundries	L.S.	1	770.00	770.00
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	558.59	6703.10
	Cost of material				**142630.46**

1	Transportation on material	4.00%	5705
2	T&P on material cost	1.00%	1426
3	Contigencies on material	0.50%	713
5	Erection cost on material	15.00%	21395
6	Contractor supervision charges on material	5.00%	7132
7	Insurance , Labour & Finance Cost	2.50%	3566
	Service Cost		**39937**
	Sub-Total		**182567**
8	Turnkey Charges	4.00%	7303
	Total		**189870**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	241402	189870
Total Cost of the Estimate	241402	189870

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	10081.00	40324.00
	MS Channel 100x50x6 mm	Kg.	70	50.78	3554.60
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	AAAC 100 mm2	m	100	50.80	5080.00
8	33 kV Pin Insulators with G.I. Pins	NO.	6	541.38	3248.26
11	Disc Insulator 11 KV 4500 KG.	NO.	36	244.47	8800.92
12	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	321.66	3859.92
13	H.T.Stay Set	No	4	586.66	2346.64
14	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	56.32	1126.40
15	Earthing Sets H.T	No.	4	335.51	1342.04
16	Danger Board in yard.	No.	4	50.00	200.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
18	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
19	Black Bituminus Paint	Ltr.	2	60.00	120.00
20	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
21	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
22	Concreting ration 1:3:6	CMT.	4	2892.26	11569.05
23	Sundries	L.S.	1	770.00	770.00
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	558.59	6703.10
	Cost of material				**95351.66**

1	Transportation on material	4.00%	3814
2	T&P on material cost	1.00%	954
3	Contigencies on material	0.50%	477
5	Erection cost on material	15.00%	14303
6	Contractor supervision charges on material	5.00%	4768
7	Insurance , Labour & Finance Cost	2.50%	2384
	Service Cost		**26698**
	Sub-Total		**122050**
8	Turnkey Charges	4.00%	4882
	Total		**126932**

Perticulars	**More than Rs. 40 Crs**	
	DPR Amount	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	161383	126932
Total Cost of the Estimate	161383	126932

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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	1640.80	1640800.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	RCC Tiles (0.6 x 0.5) Mtrs.	No.	940.00	94.82	89130.80
4	33 kV Heat shrik Straight through joint (Al) kit for XLPE 3 C X 300 sqmm	No.	2.00	36899.71	73799.42
5	33 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	2.00	19027.95	38055.90
6	Sand	Cmt.	250.00	210.13	52532.50
7	Misc. for XLPE U/G Cable	LS	1.00	1000.00	1000.00
	Cost of material				**1910918.62**

1	Transportation on material	4.00%	76437
2	T&P on material cost	1.00%	19109
3	Contigencies on material	0.50%	9555
5	Erection cost on material	15.00%	286638
6	Contractor supervision charges on material	5.00%	95546
7	Insurance , Labour & Finance Cost	2.50%	47773
	Service Cost		**535057**
	Sub-Total		**2445976**
8	Turnkey Charges	4.00%	97839
	Total		**2543815**

Perticulars	**More than Rs. 40 Crs**	
	DPR Amount	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3234230	2543815
Total Cost of the Estimate	3234230	2543815

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0709					
33 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	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
7	33 kV Pin Insulators with G.I. Pins	NO.	6	541.38	3248.26
8	AAAC 100 mm2	Rmt	100	50.80	5080.00
9	XLPE Cable 33 KV, 3 C / 300 mm sq.	Rmt	160.00	1640.80	262528.00
10	R.C.C. Pipe 150 mm 2 M	No	35.00	520.00	18200.00
11	Black Bituminus Paint	Ltr.	2	60.00	120.00
12	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
13	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
14	33 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	4.00	19027.95	76111.80
15	Sand	Cmt	500.00	210.13	105065.00
16	Misc. for XLPE U/G Cable	LS	2.00	1000.00	2000.00
	Cost of material				**682043.54**

1	Transportation on material	4.00%	27282
2	T&P on material cost	1.00%	6820
3	Contigencies on material	0.50%	3410
5	Erection cost on material	15.00%	102307
6	Contractor supervision charges on material	5.00%	34102
7	Insurance , Labour & Finance Cost	2.50%	17051
	Service Cost		**190972**
	Sub-Total		**873016**
8	Turnkey Charges	4.00%	34921
	Total		**907936**

Perticulars	**More than Rs. 40 Crs**	
	DPR Amount	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1154359	907936
Total Cost of the Estimate	1154359	907936

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0710					
33 kV Single Circuit100sqmm, 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	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	80	50.78	4062.40
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	AAAC 100 mm2	m	100	50.80	5080.00
7	33 kV Pin Insulators with G.I. Pins	NO.	6	541.38	3248.26
8	Disc Insulator 11 KV 4500 KG.	NO.	36	244.47	8800.92
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	321.66	3859.92
10	H.T.Stay Set	No	4	586.66	2346.64
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	56.32	1126.40
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
15	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
16	Black Bituminus Paint	Ltr.	2	60.00	120.00
17	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
18	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
19	Concreting ration 1:3:6	CMT.	4	2892.26	11569.05
20	Sundries	L.S.	1	770.00	770.00
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	558.59	6703.10
	Cost of material				**145169.46**

1	Transportation on material	4.00%	5807
2	T&P on material cost	1.00%	1452
3	Contigencies on material	0.50%	726
5	Erection cost on material	15.00%	21775
6	Contractor supervision charges on material	5.00%	7258
7	Insurance , Labour & Finance Cost	2.50%	3629
	Service Cost		**40647**
	Sub-Total		**185817**
8	Turnkey Charges	4.00%	7433
	Total		**193250**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	245699	193250
Total Cost of the Estimate	245699	193250

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	21139.00	42278.00
2	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
3	MS Channel 100x50x6 mm	Kg.	46	50.78	2335.88
4	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
5	33 kv guarding channel MS100x50	Kg.	80.00	50.78	4062.40
6	33 kV Pin Insulators with G.I. Pins	No.	3	541.38	1624.13
7	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
8	Disc Insulator 11 KV 7000 KG.	No.	18	344.48	6200.64
9	H.T.Stay Set	No.	4	586.66	2346.64
10	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	20	56.32	1126.40
11	Earthing Sets H.T	No	2	335.51	671.02
12	G.I.Wire 8 SWG/ 6 SWG	kg.	6	56.27	337.62
13	G.I.Barbed Wire `A' type.	kg.	7	63.01	441.07
14	Danger Board in yard.	No.	2	50.00	100.00
15	Black Bituminus Paint	Ltr.	1	60.00	60.00
16	Red Oxide Paint for 2 coats	Ltr.	3	60.00	180.00
17	Aluminium Paint for 1 coat	Ltr.	2	93.93	187.86
18	Concreting ration 1:3:6	Cmt.	2	2892.26	5784.52
19	Sundries	LS	1	770.00	770.00
	Cost of material				**73450.64**

1	Transportation on material	4.00%	2938
2	T&P on material cost	1.00%	735
3	Contigencies on material	0.50%	367
5	Erection cost on material	15.00%	11018
6	Contractor supervision charges on material	5.00%	3673
7	Insurance , Labour & Finance Cost	2.50%	1836
	Service Cost		**20566**
	Sub-Total		**94017**
8	Turnkey Charges	4.00%	3761
	Total		**97777**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	124315	97777
Total Cost of the Estimate	124315	97777

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

Item Code No. 0712					
DOUPLE POLE STRUCTURE (cut point) OF- 33 KV LINE USING 11 M LONG RSJ POLE					
S.N.	**Description of Material**	**Unit**	**QTY**	**RT/U.Rs.**	**Amt Rs.**
1	RSJ 152x152, 11 m long	No.	2	17887.00	35774.00
2	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
3	MS Channel 100x50x6 mm	Kg.	46	50.78	2335.88
4	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
5	33 kv guarding channel MS100x50	Kg.	80.00	50.78	4062.40
6	33 kV Pin Insulators with G.I. Pins	No.	3	541.38	1624.13
7	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
8	Disc Insulator 11 KV 7000 KG.	No.	18	344.48	6200.64
9	H.T.Stay Set	No.	4	586.66	2346.64
10	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	20	56.32	1126.40
11	Earthing Sets H.T	No	2	335.51	671.02
12	G.I.Wire 8 SWG/ 6 SWG	kg.	6	56.27	337.62
13	G.I.Barbed Wire `A' type.	kg.	7	63.01	441.07
14	Danger Board in yard.	No.	2	50.00	100.00
15	Black Bituminus Paint	Ltr.	1	60.00	60.00
16	Red Oxide Paint for 2 coats	Ltr.	3	60.00	180.00
17	Aluminium Paint for 1 coat	Ltr.	2	93.93	187.86
18	Concreting ration 1:3:6	Cmt.	2	2892.26	5784.52
19	Sundries	LS	1	770.00	770.00
	Cost of material				**66946.64**

1	Transportation on material	4.00%	2678
2	T&P on material cost	1.00%	669
3	Contigencies on material	0.50%	335
5	Erection cost on material	15.00%	10042
6	Contractor supervision charges on material	5.00%	3347
7	Insurance , Labour & Finance Cost	2.50%	1674
	Service Cost		**18745**
	Sub-Total		**85692**
8	Turnkey Charges	4.00%	3428
	Total		**89119**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	113307	89119
Total Cost of the Estimate	113307	89119

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CIN: U40109MH2005SGC153645

Item Code No. 0713					
DOUPLE POLE STRUCTURE(cut point) OF- 33 KV LINE USING 11 M LONG RSJ POLE					
S.N.	**Description of Material**	**Unit**	**QTY**	**RT/U.Rs.**	**Amt Rs.**
1	RSJ 116x100, 11 m long	No.	2	11089.00	22178.00
2	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
3	MS Channel 100x50x6 mm	Kg.	46	50.78	2335.88
4	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
5	33 kv guarding channel MS100x50	Kg.	80.00	50.78	4062.40
6	33 kV Pin Insulators with G.I. Pins	No.	3	541.38	1624.13
7	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
8	Disc Insulator 11 KV 7000 KG.	No.	18	344.48	6200.64
9	H.T.Stay Set	No.	4	586.66	2346.64
10	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	20	56.32	1126.40
11	Earthing Sets H.T	No	2	335.51	671.02
12	G.I.Wire 8 SWG/ 6 SWG	kg.	6	56.27	337.62
13	G.I.Barbed Wire `A' type.	kg.	7	63.01	441.07
14	Danger Board in yard.	No.	2	50.00	100.00
15	Black Bituminus Paint	Ltr.	1	60.00	60.00
16	Red Oxide Paint for 2 coats	Ltr.	3	60.00	180.00
17	Aluminium Paint for 1 coat	Ltr.	2	93.93	187.86
18	Concreting ration 1:3:6	Cmt.	2	2892.26	5784.52
19	Sundries	LS	1	770.00	770.00
	Cost of material				**53350.64**

1	Transportation on material	4.00%	2134
2	T&P on material cost	1.00%	534
3	Contigencies on material	0.50%	267
5	Erection cost on material	15.00%	8003
6	Contractor supervision charges on material	5.00%	2668
7	Insurance , Labour & Finance Cost	2.50%	1334
	Service Cost		**14938**
	Sub-Total		**68289**
8	Turnkey Charges	4.00%	2732
	Total		**71020**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	90296	71020
Total Cost of the Estimate	90296	71020

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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	21139.00	21139.00
2	RSJ 152x152, 12 m long	No.	1	19513.00	19513.00
3	MS Channel 100x50x6 mm	Kg.	35	50.78	1777.30
4	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
5	33 kv guarding channel MS100x50	Kg.	40.00	50.78	2031.20
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
7	Disc Insulator 11 KV 7000 KG.	No.	18	344.48	6200.64
8	H.T.Stay Set	No.	2	586.66	1173.32
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	10	56.32	563.20
10	Earthing Sets H.T	No.	1	335.51	335.51
11	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	56.27	112.54
12	G.I.Barbed Wire `A' type.	Kg.	2	63.01	126.02
13	Danger Board in yard.	No.	1	50.00	50.00
14	Concreting ration 1:3:6	Cmt.	1.5	2892.26	4338.39
15	Black Bituminus Paint	Ltr.	0.5	60.00	30.00
16	Red Oxide Paint for 2 coats	Ltr.	1.5	60.00	90.00
17	Aluminium Paint for 1 coat	Ltr.	1	93.93	93.93
18	Sundries	LS	1	770.00	770.00
	Cost of material				**62813.01**

1	Transportation on material	4.00%	2513
2	T&P on material cost	1.00%	628
3	Contigencies on material	0.50%	314
5	Erection cost on material	15.00%	9422
6	Contractor supervision charges on material	5.00%	3141
7	Insurance , Labour & Finance Cost	2.50%	1570
	Service Cost		**17588**
	Sub-Total		**80401**
8	Turnkey Charges	4.00%	3216
	Total		**83617**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	106311	83617
Total Cost of the Estimate	106311	83617

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CIN: U40109MH2005SGC153645

Item Code No. 0715					
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	17887.00	17887.00
2	RSJ 152x152, 10 m long	No.	1	16261.00	16261.00
3	MS Channel 100x50x6 mm	Kg.	35	50.78	1777.30
4	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
5	33 kv guarding channel MS100x50	Kg.	40.00	50.78	2031.20
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
7	Disc Insulator 11 KV 7000 KG.	No.	18	344.48	6200.64
8	H.T.Stay Set	No.	2	586.66	1173.32
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	10	56.32	563.20
10	Earthing Sets H.T	No.	1	335.51	335.51
11	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	56.27	112.54
12	G.I.Barbed Wire `A' type.	Kg.	2	63.01	126.02
13	Danger Board in yard.	No.	1	50.00	50.00
14	Concreting ration 1:3:6	Cmt.	1.5	2892.26	4338.39
15	Black Bituminus Paint	Ltr.	0.5	60.00	30.00
16	Red Oxide Paint for 2 coats	Ltr.	1.5	60.00	90.00
17	Aluminium Paint for 1 coat	Ltr.	1	93.93	93.93
18	Sundries	LS	1	770.00	770.00
	Cost of material				**56309.01**

1	Transportation on material	4.00%	2252
2	T&P on material cost	1.00%	563
3	Contigencies on material	0.50%	282
5	Erection cost on material	15.00%	8446
6	Contractor supervision charges on material	5.00%	2815
7	Insurance , Labour & Finance Cost	2.50%	1408
	Service Cost		**15767**
	Sub-Total		**72076**
8	Turnkey Charges	4.00%	2883
	Total		**74959**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	95303	74959
Total Cost of the Estimate	95303	74959

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CIN: U40109MH2005SGC153645

Item Code No. 0718					
Cost data for 33 KV S/C Line Pin type with100 mm2 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	11089.00	188513.00
2	RSJ 116x100, 10 m long	No.	2.00	10081.00	20162.00
3	MS Channel 100x50x6 mm	Kg.	132.00	50.78	6702.96
4	M.S.Channel 75x40x6 mm	Kg.	91.00	50.78	4620.98
5	MS angle 50x50x6 mm	Kg.	54.00	50.78	2742.12
6	M.S. Flats(50 X 10mm)	Kg.	36.00	47.55	1711.80
7	33 kV Pin Insulators with G.I. Pins	No.	42.00	541.38	22737.85
8	33 KV V Cross Arms	No.	14.00	887.79	12429.06
9	33 KV Top Fitting	No.	14.00	374.36	5241.04
10	G.I.Nut Bolts	Kg.	80.00	82.89	6631.14
11	Disc Insulator 11 KV 7000 KG.	No.	54.00	344.48	18601.92
12	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	18.00	321.66	5789.88
13	AAAC 100 mm2	Rmt	3150.00	50.80	160020.00
14	H.T.Stay Set	No.	6.00	586.66	3519.96
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	60.00	56.32	3379.20
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	130.00	56.27	7315.10
17	Sleve Joints	No.	3.00	115.21	345.63
18	Danger Board in yard.	No.	17.00	50.00	850.00
19	Earthing Sets H.T	No.	17.00	335.51	5703.67
20	Concreting ration 1:3:6	cmt.	17.50	2892.26	50614.58
21	G.I.Barbed Wire `A' type.	Kg.	80.00	63.01	5040.80
22	Black bituminus paint	Ltr.	6.00	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20.00	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9.00	93.93	845.37
25	Sundries	LS	LS	770.00	770.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	558.59	10054.66
	Cost of material				**545902.72**

1	Transportation on material	4.00%	21836
2	T&P on material cost	1.00%	5459
3	Contigencies on material	0.50%	2730
5	Erection cost on material	15.00%	81885
6	Contractor supervision charges on material	5.00%	27295
7	Insurance , Labour & Finance Cost	2.50%	13648
	Service Cost		**152853**
	Sub-Total		**698755**
8	Turnkey Charges	4.00%	27950
	Total		**726706**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	923940	726706
Total Cost of the Estimate	923940	726706

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) conceriting for all poles, struts & stages. (1:3:6)

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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	21139.00	359363.00
2	RSJ 116x100, 12 m long	No	2	12097.00	24194.00
3	33 KV V Cross Arms	No	14	887.79	12429.06
4	Clamps for 152 x 152 mm RSJ Pole Stay	Pair	34	247.23	8405.82
5	Clamps for 100 x 116 mm RSJ Pole Stay	Pair	4	167.05	668.20
6	33 KV Top Fitting	No	14	374.36	5241.04
7	33 kV Pin Insulators with G.I. Pins	No	42	541.38	22737.85
8	Disc Insulator 11 KV 7000 KG.	No	54	344.48	18601.92
9	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	18	321.66	5789.88
10	H.T.Stay Set	Set	6	586.66	3519.96
11	MS Channel 100x50x6 mm	Kg	105	50.78	5331.90
12	33 kv guarding channel MS100x50	Kg.	250.00	50.78	12695.00
13	G.I.Nut Bolts	Kg	100	82.89	8288.92
14	Earthing Sets H.T	Set	32	335.51	10736.32
15	AAAC 100 mm2	Rmt	2000	50.80	101600.00
16	Danger Board in yard.	No	32	50.00	1600.00
17	Red Oxide Paint for 2 coats	Ltr	30	60.00	1800.00
18	Aluminium Paint for 1 coat	Ltr	30	93.93	2817.90
19	Sundries	LS	1	770.00	770.00
20	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	18	558.59	10054.66
	Cost of Material				**605820.77**

1	Transportation on material	4.00%	24233
2	T&P on material cost	1.00%	6058
3	Contigencies on material	0.50%	3029
5	Erection cost on material	15.00%	90873
6	Contractor supervision charges on material	5.00%	30291
7	Insurance , Labour & Finance Cost	2.50%	15146
	Service Cost		**169630**
	Sub-Total		**775451**
8	Turnkey Charges	4.00%	31018
	Total		**806469**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1025352	806469
Total Cost of the Estimate	1025352	806469

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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	11089.00	44356.00
2	RSJ 116x100, 10 m long	No	0	10081.00	0.00
3	MS Channel 100x50x6 mm	Kg	204	50.78	10359.12
4	M.S.Channel 75x40x6 mm	Kg	300	50.78	15234.00
5	MS angle 50x50x6 mm	Kg	45	50.78	2285.10
6	M.S. Flats(50 X 10mm)	Kg	35	47.55	1664.25
7	33 kV Pin Insulators with G.I. Pins	No	3	541.38	1624.13
8	G.I.Nut Bolts	Kg	10	82.89	828.89
9	Disc Insulator 11 KV 7000 KG.	No	18	344.48	6200.64
10	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	6	321.66	1929.96
11	H.T.Stay Set	Set	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	40.00	56.32	2252.80
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	15.000	56.27	844.05
14	Aluminium Jointing Sleeve for 100 Sq mm AAAC	No	6	118.00	708.00
15	Danger Board in yard.	No	4	50.00	200.00
16	Earthing Sets H.T	Set	4	335.51	1342.04
17	G.I.Barbed Wire `A' type.	Kg.	10.00	63.01	630.10
18	33 KV Isolators without EB (800 Amp.)	Set	1.00	46750.00	46750.00
19	Sundries such as N/B, Washers, Welding etc.	LS	1.00	2750.00	2750.00
	Cost of Material				142305.72

1	Transportation on material	4.00%	5692
2	T&P on material cost	1.00%	1423
3	Contigencies on material	0.50%	712
5	Erection cost on material	15.00%	21346
6	Contractor supervision charges on material	5.00%	7115
7	Insurance , Labour & Finance Cost	2.50%	3558
	Service Cost		**39846**
	Sub-Total		**182151**
8	Turnkey Charges	4.00%	7286
	Total		**189437**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	240852	189437
Total Cost of the Estimate	240852	189437

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Item Code No. 0725					
Express/Highway Crossing with 232 sqmm AAAC Coductor 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	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	80	50.78	4062.40
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	AAAC 232 mm2	mtr.	100	124.91	12491.00
6	33 kV Pin Insulators with G.I. Pins	NO.	6	541.38	3248.26
7	Disc Insulator 11 KV 4500 KG.	NO.	36	244.47	8800.92
8	Strain Hardware for AAAC232 sq.mm.	No.	12	602.56	7230.72
9	H.T.Stay Set	No	4	586.66	2346.64
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	56.32	1126.40
11	Earthing Sets H.T	No.	4	335.51	1342.04
12	Danger Board in yard.	No.	4	50.00	200.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
14	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
15	Black Bituminus Paint	Ltr.	2	60.00	120.00
16	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
17	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
18	Concreting ration 1:3:6	CMT.	4	2892.26	11569.05
19	Sundries	L.S.	1	770.00	770.00
20	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	718.19	8618.30
	Cost of material				**157866.46**

1	Transportation on material	4.00%	6315
2	T&P on material cost	1.00%	1579
3	Contigencies on material	0.50%	789
5	Erection cost on material	15.00%	23680
6	Contractor supervision charges on material	5.00%	7893
7	Insurance , Labour & Finance Cost	2.50%	3947
	Service Cost		**44203**
	Sub-Total		**202069**
8	Turnkey Charges	4.00%	8083
	Total		**210152**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	267189	210152
Total Cost of the Estimate	267189	210152

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(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0726					
Road Crossing with 232 sqmm AAAC Coductor 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	16261.00	65044.00
2	M.S.Channel 75x40x6 mm	Kg.	80	50.78	4062.40
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	AAAC 232 mm2	m	100	124.91	12491.00
6	33 kV Pin Insulators with G.I. Pins	NO.	6	541.38	3248.26
7	Disc Insulator 11 KV 4500 KG.	NO.	36	244.47	8800.92
8	Strain Hardware for AAAC232 sq.mm.	No.	12	602.56	7230.72
9	H.T.Stay Set	No	4	586.66	2346.64
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	20	56.32	1126.40
11	Earthing Sets H.T	No.	4	335.51	1342.04
12	Danger Board in yard.	No.	4	50.00	200.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
14	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
15	Black Bituminus Paint	Ltr.	2	60.00	120.00
16	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
17	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
18	Concreting ration 1:3:6	CMT.	4	2892.26	11569.05
19	Sundries	L.S.	1	770.00	770.00
20	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	718.19	8618.30
	Cost of material				**138354.46**

1	Transportation on material	4.00%	5534
2	T&P on material cost	1.00%	1384
3	Contigencies on material	0.50%	692
5	Erection cost on material	15.00%	20753
6	Contractor supervision charges on material	5.00%	6918
7	Insurance , Labour & Finance Cost	2.50%	3459
	Service Cost		**38739**
	Sub-Total		**177094**
8	Turnkey Charges	4.00%	7084
	Total		**184177**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	234165	184177
Total Cost of the Estimate	234165	184177

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Item Code No.801					
Cost data for Pin type, 22 KV, AAAC 34 mm2 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	11089.00	166335.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	177	50.78	8988.06
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
6	M.S. Flats(50 X 10mm)	Kg.	34	47.55	1616.70
7	22 KV V cross arm with clamp	No.	13.00	887.79	11541.27
8	22 KV Top Fitting	No.	13.00	374.36	4866.68
9	G.I.Nut Bolts	Kg.	80	82.89	6631.14
10	22 kV Pin Insulators with G.I. Pins	No.	33	335.98	11087.19
11	Disc Insulator 11 KV 4500 KG.	No.	48	244.47	11734.56
12	Strain Hardware for 34 Sq.mm AAAC	Set	24	140.00	3360.00
13	AAAC 34 mm2	Rmt	3150	17.80	56070.00
14	H.T.Stay Set	Set	8	586.66	4693.28
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
16	Earthing Sets H.T	Set	15	335.51	5032.65
17	G.I.Barbed Wire `A' type.	Kg.	66	63.01	4158.66
18	Danger Board in yard.	No.	15	50.00	750.00
19	Black Bituminus Paint	Ltr.	6	60.00	360.00
20	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
21	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
22	Concreting ration 1:4:8	Cmt.	17.5	2596.08	45431.44
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
24	Sundries	LS	1	770.00	770.00
25	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**388028.72**

1	Transportation on material	4.00%	15521
2	T&P on material cost	1.00%	3880
3	Contigencies on material	0.50%	1940
5	Erection cost on material	15.00%	58204
6	Contractor supervision charges on material	5.00%	19401
7	Insurance , Labour & Finance Cost	2.50%	9701
	Service Cost		**108648**
	Sub-Total		**496677**
8	Turnkey Charges	4.00%	19867
	Total		**516544**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	656739	516544
Total Cost of the Estimate	656739	516544

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)

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	17887.00	304079.00
2	RSJ 116x100, 10 m long	No.	2	10081.00	20162.00
3	MS Channel 100x50x6 mm	Kg.	607	50.78	30823.46
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	248	50.78	12593.44
6	M.S. Flats(50 X 10mm)	Kg.	107	47.55	5087.85
7	G.I.Nut Bolts	Kg.	90	82.89	7460.03
8	Disc Insulator 11 KV 4500 KG.	No.	126	244.47	30803.22
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	39.00	224.63	8760.57
10	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	24.00	321.66	7719.84
11	AAAC 100 mm2	Rmt	3150	50.80	160020.00
12	Sleve Joints	No.	3	115.21	345.63
13	H.T.Stay Set	Set	8	586.66	4693.28
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
15	Earthing Sets H.T	Set	17	335.51	5703.67
16	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
17	Danger Board in yard.	No.	17	50.00	850.00
18	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
20	Black Bituminus Paint	Ltr.	6	60.00	360.00
21	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
22	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
23	Sundries	LS	1	770.00	770.00
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**690472.85**

1	Transportation on material	4.00%	27619
2	T&P on material cost	1.00%	6905
3	Contigencies on material	0.50%	3452
5	Erection cost on material	15.00%	103571
6	Contractor supervision charges on material	5.00%	34524
7	Insurance , Labour & Finance Cost	2.50%	17262
	Service Cost		**193332**
	Sub-Total		**883805**
8	Turnkey Charges	4.00%	35352
	Total		**919157**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	1168625	919157
Total Cost of the Estimate	1168625	919157

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.

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MSEDCL

Item Code No. 0805

Cost data for 22 KV Single circuit suspention 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	21139.00	359363.00
2	RSJ 116x100, 11 m long	No.	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg.	607	50.78	30823.46
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	248	50.78	12593.44
6	M.S. Flats(50 X 10mm)	Kg.	107	47.55	5087.85
7	G.I.Nut Bolts	Kg.	90	82.89	7460.03
8	Disc Insulator 11 KV 4500 KG.	No.	126	244.47	30803.22
9	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	No.	39.00	224.63	8760.57
10	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	24.00	321.66	7719.84
11	AAAC 100 mm2	Rmt	3150	50.80	160020.00
12	Sleve Joints	No.	3	115.21	345.63
13	H.T.Stay Set	Set	8	586.66	4693.28
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
15	Earthing Sets H.T	Set	17	335.51	5703.67
16	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
17	Danger Board in yard.	No.	17	50.00	850.00
18	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
20	Black Bituminus Paint	Ltr.	6	60.00	360.00
21	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
22	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
23	Sundries	LS	1	770.00	770.00
24	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**747772.85**

1	Transportation on material	4.00%	29911
2	T&P on material cost	1.00%	7478
3	Contigencies on material	0.50%	3739
5	Erection cost on material	15.00%	112166
6	Contractor supervision charges on material	5.00%	37389
7	Insurance , Labour & Finance Cost	2.50%	18694
	Service Cost		**209376**
	Sub-Total		**957149**
8	Turnkey Charges	4.00%	38286
	Total		**995435**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	1265606	995435
Total Cost of the Estimate	1265606	995435

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.

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MSEDCL

Item Code No. 0806

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	17887.00	304079.00
2	RSJ 116x100, 10 m long	No.	2	10081.00	20162.00
3	MS Channel 100x50x6 mm	Kg.	177	50.78	8988.06
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
6	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
7	22 KV V cross arm with clamp	No.	13.00	887.79	11541.27
8	22 KV Top Fitting	No.	13.00	374.36	4866.68
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	22 kV Pin Insulators with G.I. Pins	No.	39	335.98	13103.05
11	Disc Insulator 11 KV 4500 KG.	No.	48	244.47	11734.56
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	321.66	7719.84
13	AAAC 100 mm2	Rmt	3150	50.80	160020.00
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	8	586.66	4693.28
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
17	Earthing Sets H.T	Set	17	335.51	5703.67
18	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**658053.44**

1	Transportation on material	4.00%	26322
2	T&P on material cost	1.00%	6581
3	Contigencies on material	0.50%	3290
5	Erection cost on material	15.00%	98708
6	Contractor supervision charges on material	5.00%	32903
7	Insurance , Labour & Finance Cost	2.50%	16451
	Service Cost		**184255**
	Sub-Total		**842308**
8	Turnkey Charges	4.00%	33692
	Total		**876001**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	1113755	876001
Total Cost of the Estimate	1113755	876001

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.

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0807					
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	10081.00	171377.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	177	50.78	8988.06
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
6	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
7	22 KV V cross arm with clamp	No.	13.00	887.79	11541.27
8	22 KV Top Fitting	No.	13.00	374.36	4866.68
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	22 kV Pin Insulators with G.I. Pins	No.	39	335.98	13103.05
11	Disc Insulator 11 KV 4500 KG.	No.	48	244.47	11734.56
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	321.66	7719.84
13	AAAC 100 mm2	Rmt	3150	50.80	160020.00
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	8	586.66	4693.28
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
17	Earthing Sets H.T	Set	17	335.51	5703.67
18	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**523335.44**

1	Transportation on material	4.00%	20933
2	T&P on material cost	1.00%	5233
3	Contigencies on material	0.50%	2617
5	Erection cost on material	15.00%	78500
6	Contractor supervision charges on material	5.00%	26167
7	Insurance , Labour & Finance Cost	2.50%	13083
	Service Cost		**146534**
	Sub-Total		**669869**
8	Turnkey Charges	4.00%	26795
	Total		**696664**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	33.12%
Cost with overheads on Material	885745	696664
Total Cost of the Estimate	885745	696664

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.

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0808

Cost data for 22 kV Single Circuit pin type with AAAC 34 mm2 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	2060.00	37080.00
2	M.S. Flats(50 X 10mm)	Kg.	39	47.55	1854.45
3	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
4	MS Channel 100x50x6 mm	Kg.	177	50.78	8988.06
5	22 KV V cross arm with clamp	No.	14.00	887.79	12429.06
6	22 KV Top Fitting	No.	14.00	374.36	5241.04
7	22 kV Pin Insulators with G.I. Pins	No.	42	335.98	14110.98
8	Disc Insulator 11 KV 4500 KG.	No.	48	244.47	11734.56
9	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	321.66	7719.84
10	AAAC 34 mm2	Rmt	3150	17.80	56070.00
11	Sleve Joints	No.	3	115.21	345.63
12	H.T.Stay Set	No.	8	586.66	4693.28
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
14	Earthing Sets H.T	No	18	335.51	6039.18
15	G.I.Barbed Wire `A' type.	Kg.	30	63.01	1890.30
16	Danger Board in yard.	No.	18	50.00	900.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
18	Concreting ration 1:4:8	No.	10	2596.08	25960.82
19	Black Bituminus Paint	Ltr.	6	60.00	360.00
20	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
21	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
22	Sundries	LS	1	770.00	770.00
23	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**218987.12**

1	Transportation on material	4.00%	8759
2	T&P on material cost	1.00%	2190
3	Contigencies on material	0.50%	1095
5	Erection cost on material	15.00%	32848
6	Contractor supervision charges on material	5.00%	10949
7	Insurance , Labour & Finance Cost	2.50%	5475
	Service Cost		**61316**
	Sub-Total		**280304**
8	Turnkey Charges	4.00%	11212
	Total		**291516**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	370636	291516
Total Cost of the Estimate	370636	291516

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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					
S.N.	**Description of Material**	**Unit**	**QTY**	**RT/U.Rs.**	**Amt Rs.**
1	RSJ 152x152, 13 m long	No.	4	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	AAAC 100 mm2	m	100	50.80	5080.00
7	22 kV Pin Insulators with G.I. Pins	NO.	6	335.98	2015.85
8	Disc Insulator 11 KV 4500 KG.	NO.	24	244.47	5867.28
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	321.66	3859.92
10	H.T.Stay Set	No	4	586.66	2346.64
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
15	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
16	Concreting ration 1:4:8	CMT.	4	2596.08	10384.33
17	Black Bituminus Paint	Ltr.	2	60.00	120.00
18	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
19	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
20	Sundries	L.S.	1	770.00	770.00
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	558.59	6703.10
	Cost of material				**139084.69**

1	Transportation on material	4.00%	5563
2	T&P on material cost	1.00%	1391
3	Contigencies on material	0.50%	695
5	Erection cost on material	15.00%	20863
6	Contractor supervision charges on material	5.00%	6954
7	Insurance , Labour & Finance Cost	2.50%	3477
	Service Cost		**38944**
	Sub-Total		**178028**
8	Turnkey Charges	4.00%	7121
	Total		**185150**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	235401	185150
Total Cost of the Estimate	235401	185150

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	10081.00	40324.00
2	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	AAAC 100 mm2	m	100	50.80	5080.00
7	22 kV Pin Insulators with G.I. Pins	NO.	4	335.98	1343.90
8	Disc Insulator 11 KV 4500 KG.	NO.	24	244.47	5867.28
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	321.66	3859.92
10	H.T.Stay Set	No	4	586.66	2346.64
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
15	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
16	Concreting ration 1:4:8	CMT.	4	2596.08	10384.33
17	Black Bituminus Paint	Ltr.	2	60.00	120.00
18	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
19	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
20	Sundries	L.S.	1	770.00	770.00
21	Wedge connectors			0.00	0.00
a)	DOG TO DOG or equivalent AAAC	No	12	558.59	6703.10
	Cost of material				**94180.74**

1	Transportation on material	4.00%	3767
2	T&P on material cost	1.00%	942
3	Contigencies on material	0.50%	471
5	Erection cost on material	15.00%	14127
6	Contractor supervision charges on material	5.00%	4709
7	Insurance , Labour & Finance Cost	2.50%	2355
	Service Cost		**26371**
	Sub-Total		**120551**
8	Turnkey Charges	4.00%	4822
	Total		**125373**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	159401	125373
Total Cost of the Estimate	159401	125373

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

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	812.56	812560.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	RCC Tiles (0.6 x 0.5) Mtrs.	No.	940.00	94.82	89130.80
4	22 KV st. through joints for 3 C / 95 mm sq.	No	2.00	12076.27	24152.54
5	22 KV Termination joint (OD) for 3 C / 95 mm sq.	No.	2.00	7380.96	14761.92
6	Sand	Cmt	250.00	210.13	52532.50
7	Misc. for XLPE U/G Cable	LS	1.00	1000.00	1000.00
	Cost of material				**1009737.76**

1	Transportation on material	4.00%	40390
2	T&P on material cost	1.00%	10097
3	Contigencies on material	0.50%	5049
5	Erection cost on material	15.00%	151461
6	Contractor supervision charges on material	5.00%	50487
7	Insurance , Labour & Finance Cost	2.50%	25243
	Service Cost		**282727**
	Sub-Total		**1292464**
8	Turnkey Charges	4.00%	51699
	Total		**1344163**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1708981	1344163
Total Cost of the Estimate	1708981	1344163

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No.0812					
Cost Data for laying of 1 Km. 22 KV 3 C 240 mm 2 XLPE under ground Cable					
Sr.No.	**Particulars**	**Unit**	**Qty.**	**Rate (Rs.)**	**Amount**
1	XLPE Cable 22 KV, 3 C / 240 mm sq.	Rmt.	1000.00	1149.61	1149610.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	22 KV Str Thr Joints for 240 Sqmm cable	No	2.00	24599.81	49199.62
5	22 KV OD for 240 Sqmm cable (End Termination Joint)	No.	2.00	12467.63	24935.26
6	Sand	Cmt	250.00	210.13	52532.50
7	Misc. for XLPE U/G Cable	LS	1.00	1000.00	1000.00
	Cost of material				**1386877.38**

1	Transportation on material	4.00%	55475
2	T&P on material cost	1.00%	13869
3	Contigencies on material	0.50%	6934
5	Erection cost on material	15.00%	208032
6	Contractor supervision charges on material	5.00%	69344
7	Insurance , Labour & Finance Cost	2.50%	34672
	Service Cost		**388326**
	Sub-Total		**1775203**
8	Turnkey Charges	4.00%	71008
	Total		**1846211**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2347290	1846211
Total Cost of the Estimate	2347290	1846211

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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	1409.00	1409000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	22 kV Heat shrik Straight through joint (Al) kit for XLPE 3 C X 300 sqmm	No.	2.00	24599.81	49199.62
5	22 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	2.00	13714.39	27428.78
6	Sand	Cmt	250.00	210.13	52532.50
7	Misc. for XLPE U/G Cable	LS	1.00	1000.00	1000.00
	Cost of material				**1648760.90**

1	Transportation on material	4.00%	65950
2	T&P on material cost	1.00%	16488
3	Contigencies on material	0.50%	8244
5	Erection cost on material	15.00%	247314
6	Contractor supervision charges on material	5.00%	82438
7	Insurance , Labour & Finance Cost	2.50%	41219
	Service Cost		**461653**
	Sub-Total		**2110414**
8	Turnkey Charges	4.00%	84417
	Total		**2194831**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2790528	2194831
Total Cost of the Estimate	2790528	2194831

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	22KV A.B.Switch	Set	2	12050.00	24100.00
7	22KV H.G.Fuses	Set	2	4050.00	8100.00
8	AAAC 100 mm2	Rmt	100	50.80	5080.00
9	XLPE Cable 22 KV, 3 C / 300 mm sq.	Rmt	160.00	1409.00	225440.00
10	R.C.C. Pipe 150 mm 2 M	No	60.00	520.00	31200.00
11	22 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	4.00	13714.39	54857.56
12	Sand	Cmt	500.00	210.13	105065.00
13	Black Bituminus Paint	Ltr.	2	60.00	120.00
14	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
15	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
16	Misc. for XLPE U/G Cable	LS	2.00	1000.00	2000.00
	Cost of material				**551653.04**

1	Transportation on material	4.00%	22066
2	T&P on material cost	1.00%	5517
3	Contigencies on material	0.50%	2758
5	Erection cost on material	15.00%	82748
6	Contractor supervision charges on material	5.00%	27583
7	Insurance , Labour & Finance Cost	2.50%	13791
	Service Cost		**154463**
	Sub-Total		**706116**
8	Turnkey Charges	4.00%	28245
	Total		**734361**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	933673	734361
Total Cost of the Estimate	933673	734361

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0815					
Cost data for RIVER Crossing with100sqmm 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	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	AAAC 100 mm2	m	100	50.80	5080.00
7	22 kV Pin Insulators with G.I. Pins	NO.	6	335.98	2015.85
8	Disc Insulator 11 KV 4500 KG.	NO.	24	244.47	5867.28
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	321.66	3859.92
10	H.T.Stay Set	No	4	586.66	2346.64
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
15	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
16	Concreting ration 1:4:8	CMT.	4	2596.08	10384.33
17	Black Bituminus Paint	Ltr.	2	60.00	120.00
18	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
19	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
20	Sundries	L.S.	1	770.00	770.00
21	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	558.59	6703.10
	Cost of material				**139084.69**

1	Transportation on material	4.00%	5563
2	T&P on material cost	1.00%	1391
3	Contigencies on material	0.50%	695
5	Erection cost on material	15.00%	20863
6	Contractor supervision charges on material	5.00%	6954
7	Insurance , Labour & Finance Cost	2.50%	3477
	Service Cost		**38944**
	Sub-Total		**178028**
8	Turnkey Charges	4.00%	7121
	Total		**185150**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	235401	185150
Total Cost of the Estimate	235401	185150

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0816					
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	21139.00	42278.00
2	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
5	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
7	Disc Insulator 11 KV 7000 KG.	No.	12	344.48	4133.76
8	H.T.Stay Set	No.	2	586.66	1173.32
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	56.32	1408.00
10	Earthing Sets H.T	No	2	335.51	671.02
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	56.27	337.62
12	G.I.Barbed Wire `A' type.	kg.	7	63.01	441.07
13	Danger Board in yard.	No.	2	50.00	100.00
14	Black Bituminus Paint	Ltr.	1	60.00	60.00
15	Red Oxide Paint for 2 coats	Ltr.	3	60.00	180.00
16	Aluminium Paint for 1 coat	Ltr.	2	93.93	187.86
17	Concreting ration 1:4:8	Cmt.	2	2596.08	5192.16
18	Sundries	L.S.	1	770.00	770.00
	Cost of material				**70002.07**

1	Transportation on material	4.00%	2800
2	T&P on material cost	1.00%	700
3	Contigencies on material	0.50%	350
5	Erection cost on material	15.00%	10500
6	Contractor supervision charges on material	5.00%	3500
7	Insurance , Labour & Finance Cost	2.50%	1750
	Service Cost		**19601**
	Sub-Total		**89603**
8	Turnkey Charges	4.00%	3584
	Total		**93187**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	118479	93187
Total Cost of the Estimate	118479	93187

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	17887.00	35774.00
2	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
5	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
7	Disc Insulator 11 KV 7000 KG.	No.	12	344.48	4133.76
8	H.T.Stay Set	No.	2	586.66	1173.32
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	56.32	1408.00
10	Earthing Sets H.T	No	2	335.51	671.02
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	56.27	337.62
12	G.I.Barbed Wire `A' type.	kg.	7	63.01	441.07
13	Danger Board in yard.	No.	2	50.00	100.00
14	Black Bituminus Paint	Ltr.	1	60.00	60.00
15	Red Oxide Paint for 2 coats	Ltr.	3	60.00	180.00
16	Aluminium Paint for 1 coat	Ltr.	2	93.93	187.86
17	Concreting ration 1:4:8	Cmt.	2	2596.08	5192.16
18	Sundries	L.S.	1	770.00	770.00
	Cost of material				**63498.07**

1	Transportation on material	4.00%	2540
2	T&P on material cost	1.00%	635
3	Contigencies on material	0.50%	317
5	Erection cost on material	15.00%	9525
6	Contractor supervision charges on material	5.00%	3175
7	Insurance , Labour & Finance Cost	2.50%	1587
	Service Cost		**17779**
	Sub-Total		**81278**
8	Turnkey Charges	4.00%	3251
	Total		**84529**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	107470	84529
Total Cost of the Estimate	107470	84529

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0818					
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	11089.00	22178.00
2	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
5	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
7	Disc Insulator 11 KV 7000 KG.	No.	12	344.48	4133.76
8	H.T.Stay Set	No.	2	586.66	1173.32
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	56.32	1408.00
10	Earthing Sets H.T	No	2	335.51	671.02
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	56.27	337.62
12	G.I.Barbed Wire `A' type.	kg.	7	63.01	441.07
13	Danger Board in yard.	No.	2	50.00	100.00
14	Black Bituminus Paint	Ltr.	1	60.00	60.00
15	Red Oxide Paint for 2 coats	Ltr.	3	60.00	180.00
16	Aluminium Paint for 1 coat	Ltr.	2	93.93	187.86
17	Concreting ration 1:4:8	Cmt.	2	2596.08	5192.16
18	Sundries	L.S.	1	770.00	770.00
	Cost of material				**49902.07**

1	Transportation on material	4.00%	1996
2	T&P on material cost	1.00%	499
3	Contigencies on material	0.50%	250
5	Erection cost on material	15.00%	7485
6	Contractor supervision charges on material	5.00%	2495
7	Insurance , Labour & Finance Cost	2.50%	1248
	Service Cost		**13973**
	Sub-Total		**63875**
8	Turnkey Charges	4.00%	2555
	Total		**66430**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	84459	66430
Total Cost of the Estimate	84459	66430

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MSEDCL

Item Code No. 0819					
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	9073.00	9073.00
2	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
3	MS Channel 100x50x6 mm	Kg.	35	50.78	1777.30
4	M.S.Channel 75x40x6 mm	Kg.	25	50.78	1269.50
5	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
6	Disc Insulator 11 KV 7000 KG.	No.	12	344.48	4133.76
7	H.T.Stay Set	No.	1	586.66	586.66
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	56.32	732.16
9	Earthing Sets H.T	No.	1	335.51	335.51
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	56.27	112.54
11	G.I.Barbed Wire `A' type.	Kg.	2	63.01	126.02
12	Danger Board in yard.	No.	1	50.00	50.00
13	Concreting ration 1:4:8	Cmt.	1.5	2596.08	3894.12
14	Black Bituminus Paint	Ltr.	0.5	60.00	30.00
15	Red Oxide Paint for 2 coats	Ltr.	1.5	60.00	90.00
16	Aluminium Paint for 1 coat	Ltr.	1	93.93	93.93
17	Sundries	LS	1	770.00	770.00
	Cost of material				**27543.46**

1	Transportation on material	4.00%	1102
2	T&P on material cost	1.00%	275
3	Contigencies on material	0.50%	138
5	Erection cost on material	15.00%	4132
6	Contractor supervision charges on material	5.00%	1377
7	Insurance , Labour & Finance Cost	2.50%	689
	Service Cost		**7712**
	Sub-Total		**35256**
8	Turnkey Charges	4.00%	1410
	Total		**36666**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	46617	36666
Total Cost of the Estimate	46617	36666

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Item Code No. 0820					
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	17887.00	17887.00
2	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
3	MS Channel 100x50x6 mm	Kg.	35	50.78	1777.30
4	M.S.Channel 75x40x6 mm	Kg.	25	50.78	1269.50
5	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
6	Disc Insulator 11 KV 7000 KG.	No.	12	344.48	4133.76
7	H.T.Stay Set	No.	1	586.66	586.66
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	56.32	732.16
9	Earthing Sets H.T	No.	1	335.51	335.51
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	56.27	112.54
11	G.I.Barbed Wire `A' type.	Kg.	2	63.01	126.02
12	Danger Board in yard.	No.	1	50.00	50.00
13	Concreting ration 1:4:8	Cmt.	1.5	2596.08	3894.12
14	Black Bituminus Paint	Ltr.	0.5	60.00	30.00
15	Red Oxide Paint for 2 coats	Ltr.	1.5	60.00	90.00
16	Aluminium Paint for 1 coat	Ltr.	1	93.93	93.93
17	Sundries	LS	1	770.00	770.00
	Cost of material				**36357.46**

1	Transportation on material	4.00%	1454
2	T&P on material cost	1.00%	364
3	Contigencies on material	0.50%	182
5	Erection cost on material	15.00%	5454
6	Contractor supervision charges on material	5.00%	1818
7	Insurance , Labour & Finance Cost	2.50%	909
	Service Cost		**10180**
	Sub-Total		**46538**
8	Turnkey Charges	4.00%	1862
	Total		**48399**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	61535	48399
Total Cost of the Estimate	61535	48399

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MSEDCL

Item code No. 0821					
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	2060.00	2060.00
2	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
3	MS Channel 100x50x6 mm	Kg.	35	50.78	1777.30
4	M.S.Channel 75x40x6 mm	Kg.	25	50.78	1269.50
5	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
6	Disc Insulator 11 KV 7000 KG.	No.	12	344.48	4133.76
7	H.T.Stay Set	No.	1	586.66	586.66
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	56.32	732.16
9	Earthing Sets H.T	No.	1	335.51	335.51
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	56.27	112.54
11	G.I.Barbed Wire `A' type.	Kg.	2	63.01	126.02
12	Danger Board in yard.	No.	1	50.00	50.00
13	Concreting ration 1:4:8	Cmt.	1.5	2596.08	3894.12
14	Black Bituminus Paint	Ltr.	0.5	60.00	30.00
15	Red Oxide Paint for 2 coats	Ltr.	1.5	60.00	90.00
16	Aluminium Paint for 1 coat	Ltr.	1	93.93	93.93
17	Sundries	LS	1	770.00	770.00
	Cost of material				**20530.46**

1	Transportation on material	4.00%	821
2	T&P on material cost	1.00%	205
3	Contigencies on material	0.50%	103
5	Erection cost on material	15.00%	3080
6	Contractor supervision charges on material	5.00%	1027
7	Insurance , Labour & Finance Cost	2.50%	513
	Service Cost		**5749**
	Sub-Total		**26279**
8	Turnkey Charges	4.00%	1051
	Total		**27330**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	34748	27330
Total Cost of the Estimate	34748	27330

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MSEDCL

Item Code No. 0822

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	21139.00	359363.00
2	RSJ 116x100, 11 m long	No.	2	11089.00	22178.00
3	G.I.Channel 100x50x6mm	Kg.	607	64.78	39321.46
4	G.I.Channel 75x40x6mm	Kg.	122	64.78	7903.16
5	G.I.Angle 50x50x6mm	Kg.	248	64.78	16065.44
6	G.I Flat 50x10 mm	Kg.	107	61.55	6585.85
7	G.I.Nut Bolts	Kg.	90	82.89	7460.03
8	22 kV Pin Insulators with G.I. Pins	No.	3	335.98	1007.93
9	Disc Insulator 11 KV 4500 KG.	No.	126	244.47	30803.22
10	Suspension Hardware for 0.2 ACSR or equivalent AAAC	No.	39.00	338.89	13216.71
11	Strain Hardware for AAAC232 sq.mm.	No.	24.00	602.56	14461.44
12	AAAC 232 mm2	Rmt	3100	124.91	387221.00
13	Jointing Sleeves for Conductor.	No.	3	36.60	109.80
14	H.T.Stay Set	Set	11	586.66	6453.26
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
16	Earthing Sets H.T	Set	18	335.51	6039.18
17	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
18	Danger Board in yard.	No.	18	50.00	900.00
19	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
21	Black Bituminus Paint	Ltr.	7	60.00	420.00
22	Red Oxide Paint for 2 coats	Ltr.	23	60.00	1380.00
23	Aluminium Paint for 1 coat	Ltr.	12	93.93	1127.16
24	Sundries	LS	1	770.00	770.00
25	Wedge connectors				
	PANTHER TO PANTHER or equivalent AAAC	No	24	718.19	17236.61
	Cost of material				**991380.76**

1	Transportation on material	4.00%	39655
2	T&P on material cost	1.00%	9914
3	Contigencies on material	0.50%	4957
5	Erection cost on material	15.00%	148707
6	Contractor supervision charges on material	5.00%	49569
7	Insurance , Labour & Finance Cost	2.50%	24785
	Service Cost		**277587**
	Sub-Total		**1268967**
8	Turnkey Charges	4.00%	50759
	Total		**1319726**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	1677912	1319726
Total Cost of the Estimate	1677912	1319726

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.

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	21139.00	359363.00
2	RSJ 152x152, 12 m long	No.	2	19513.00	39026.00
3	MS Channel 100x50x6 mm	Kg.	177	50.78	8988.06
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	22 KV V cross arm with clamp	No.	13	887.79	11541.27
6	22 KV Top Fitting	No.	13	374.36	4866.68
7	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
8	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	22 kV Pin Insulators with G.I. Pins	No.	39	335.98	13103.05
11	Disc Insulator 11 KV 4500 KG.	No.	48	244.47	11734.56
12	Strain Hardware for AAAC232 sq.mm.	Set	24	602.56	14461.44
13	AAAC 232 mm2	Rmt	3150	124.91	393466.50
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	8	586.66	4693.28
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
17	Earthing Sets H.T	Set	17	335.51	5703.67
18	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	24	718.19	17236.61
	Cost of material				**976219.94**

1	Transportation on material	4.00%	39049
2	T&P on material cost	1.00%	9762
3	Contigencies on material	0.50%	4881
5	Erection cost on material	15.00%	146433
6	Contractor supervision charges on material	5.00%	48811
7	Insurance , Labour & Finance Cost	2.50%	24405
	Service Cost		**273342**
	Sub-Total		**1249562**
8	Turnkey Charges	4.00%	49982
	Total		**1299544**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	33.12%
Cost with overheads on Material	1652252	1299544
Total Cost of the Estimate	1652252	1299544

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.

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	AAAC 232 mm2	m	100	124.91	12491.00
7	22 kV Pin Insulators with G.I. Pins	NO.	6	335.98	2015.85
8	Disc Insulator 11 KV 4500 KG.	NO.	24	244.47	5867.28
9	Strain Hardware for AAAC232 sq.mm.	No.	12	602.56	7230.72
10	H.T.Stay Set	No	4	586.66	2346.64
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
15	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
16	Concreting ration 1:4:8	CMT.	4	2596.08	10384.33
17	Black Bituminus Paint	Ltr.	2	60.00	120.00
18	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
19	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
20	Sundries	L.S.	1	770.00	770.00
21	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	718.19	8618.30
	Cost of material				**151781.69**

1	Transportation on material	4.00%	6071
2	T&P on material cost	1.00%	1518
3	Contigencies on material	0.50%	759
5	Erection cost on material	15.00%	22767
6	Contractor supervision charges on material	5.00%	7589
7	Insurance , Labour & Finance Cost	2.50%	3795
	Service Cost		**42499**
	Sub-Total		**194281**
8	Turnkey Charges	4.00%	7771
	Total		**202052**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	256891	202052
Total Cost of the Estimate	256891	202052

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	60	50.78	3046.80
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	AAAC 232 mm2	m	100	124.91	12491.00
7	22 kV Pin Insulators with G.I. Pins	NO.	4	335.98	1343.90
8	Disc Insulator 11 KV 4500 KG.	NO.	24	244.47	5867.28
9	Strain Hardware for AAAC232 sq.mm.	No.	12	602.56	7230.72
10	H.T.Stay Set	No	4	586.66	2346.64
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
15	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
16	Concreting ration 1:4:8	CMT.	4	2596.08	10384.33
17	Black Bituminus Paint	Ltr.	2	60.00	120.00
18	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
19	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
20	Sundries	L.S.	1	770.00	770.00
21	Wedge connectors			0.00	0.00
a)	PANTHER TO PANTHER or equivalent AAAC	No	12	718.19	8618.30
	Cost of material				**151109.74**

1	Transportation on material	4.00%	6044
2	T&P on material cost	1.00%	1511
3	Contigencies on material	0.50%	756
5	Erection cost on material	15.00%	22666
6	Contractor supervision charges on material	5.00%	7555
7	Insurance , Labour & Finance Cost	2.50%	3778
	Service Cost		**42311**
	Sub-Total		**193420**
8	Turnkey Charges	4.00%	7737
	Total		**201157**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	255753	201157
Total Cost of the Estimate	255753	201157

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	73412.00	73412.00
	Cost of material				**73412.00**
1	Transportation on material	4.00%			2936
2	T&P on material cost	1.00%			734
3	Contigencies on material	0.50%			367
5	Erection cost on material	15.00%			11012
6	Contractor supervision charges on material	5.00%			3671
7	Insurance , Labour & Finance Cost	2.50%			1835
	Service Cost				**20555**
	Sub-Total				**93967**
8	Turnkey Charges	4.00%			3759
	Total				**97726**
9	HT Pillar Foundation		1.00	11995.00	11995
	Total Cost of Estimate				**109721**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	124250	97726
HT Pillar Foundation	15251	11995
Total Cost of the Estimate	139500	109721

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	1098.00	1098.00
	Cost of material				**1098.00**
1	Transportation on material	4.00%			44
2	T&P on material cost	1.00%			11
3	Contigencies on material	0.50%			5
5	Erection cost on material	15.00%			165
6	Contractor supervision charges on material	5.00%			55
7	Insurance , Labour & Finance Cost	2.50%			27
	Service Cost				**307**
	Sub-Total				**1405**
8	Turnkey Charges	4.00%			56
	Total				**1462**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1858	1462
Total Cost of the Estimate	1858	1462

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MSEDCL

Item Code No.830					
Pin type, 22 KV, AAAC 55 mm2. 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	9073.00	136095.00
2	RSJ 116x100, 8 m long	No.	2	8065.00	16130.00
3	MS Channel 100x50x6 mm	Kg.	177	50.78	8988.06
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
6	22 KV V cross arm with clamp	No.	11	887.79	9765.69
7	22 KV Top Fitting	No.	11	374.36	4117.96
8	M.S. Flats(50 X 10mm)	Kg.	34	47.55	1616.70
9	G.I.Nut Bolts	Kg.	80	82.89	6631.14
10	22 kV Pin Insulators with G.I. Pins	No.	33	335.98	11087.19
11	Disc Insulator 11 KV 4500 KG.	No.	48	244.47	11734.56
12	Strain Hardware forWeasel/Squirrel	Set	24	178.40	4281.60
13	AAAC 55 mm^2	Rmt	3150	28.00	88200.00
14	H.T.Stay Set	Set	8	586.66	4693.28
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
16	Earthing Sets H.T	Set	15	335.51	5032.65
17	G.I.Barbed Wire `A' type.	Kg.	66	63.01	4158.66
18	Danger Board in yard.	No.	15	50.00	750.00
19	Black Bituminus Paint	Ltr.	6	60.00	360.00
20	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
21	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
22	Concreting ration 1:4:8	Cmt.	17.5	2596.08	45431.44
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
24	Sundries	LS	1	770.00	770.00
25	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**386300.02**

1	Transportation on material	4.00%	15452
2	T&P on material cost	1.00%	3863
3	Contigencies on material	0.50%	1932
5	Erection cost on material	15.00%	57945
6	Contractor supervision charges on material	5.00%	19315
7	Insurance , Labour & Finance Cost	2.50%	9658
	Service Cost		**108164**
	Sub-Total		**494464**
8	Turnkey Charges	4.00%	19779
	Total		**514243**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	653813	514243
Total Cost of the Estimate	653813	514243

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)

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Item Code No.831					
Pin type, 22 KV, AAAC 55 mm2. 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	11089.00	166335.00
2	RSJ 116x100, 10 m long	No.	2	10081.00	20162.00
3	MS Channel 100x50x6 mm	Kg.	177	50.78	8988.06
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
6	M.S. Flats(50 X 10mm)	Kg.	34	47.55	1616.70
7	22 KV V cross arm with clamp	No.	11	887.79	9765.69
8	22 KV Top Fitting	No.	11	374.36	4117.96
9	G.I.Nut Bolts	Kg.	80	82.89	6631.14
10	22 kV Pin Insulators with G.I. Pins	No.	33	335.98	11087.19
11	Disc Insulator 11 KV 4500 KG.	No.	48	244.47	11734.56
12	Strain Hardware forWeasel/Squirrel	Set	24	178.40	4281.60
13	AAAC 55 mm^2	Rmt	3150	28.00	88200.00
14	H.T.Stay Set	Set	8	586.66	4693.28
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
16	Earthing Sets H.T	Set	15	335.51	5032.65
17	G.I.Barbed Wire `A' type.	Kg.	66	63.01	4158.66
18	Danger Board in yard.	No.	15	50.00	750.00
19	Black Bituminus Paint	Ltr.	6	60.00	360.00
20	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
21	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
22	Concreting ration 1:4:8	Cmt.	17.5	2596.08	45431.44
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
24	Sundries	LS	1	770.00	770.00
25	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**420572.02**

1	Transportation on material	4.00%	16823
2	T&P on material cost	1.00%	4206
3	Contigencies on material	0.50%	2103
5	Erection cost on material	15.00%	63086
6	Contractor supervision charges on material	5.00%	21029
7	Insurance , Labour & Finance Cost	2.50%	10514
	Service Cost		**117760**
	Sub-Total		**538332**
8	Turnkey Charges	4.00%	21533
	Total		**559865**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	711818	559865
Total Cost of the Estimate	711818	559865

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)

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MSEDCL

Item Code No.832					
Pin type, 22 KV, 34 mm2. 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	9073.00	136095.00
2	RSJ 116x100, 8 m long	No.	2	8065.00	16130.00
3	MS Channel 100x50x6 mm	Kg.	177	50.78	8988.06
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
6	M.S. Flats(50 X 10mm)	Kg.	34	47.55	1616.70
7	22 KV V cross arm with clamp	No.	11	887.79	9765.69
8	22 KV Top Fitting	No.	11	374.36	4117.96
9	G.I.Nut Bolts	Kg.	80	82.89	6631.14
10	22 kV Pin Insulators with G.I. Pins	No.	33	335.98	11087.19
11	Disc Insulator 11 KV 4500 KG.	No.	48	244.47	11734.56
12	Strain Hardware forWeasel/Squirrel	Set	24	178.40	4281.60
13	AAAC 34 mm^2	Rmt	3150	17.80	56070.00
14	H.T.Stay Set	Set	8	586.66	4693.28
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
16	Earthing Sets H.T	Set	15	335.51	5032.65
17	G.I.Barbed Wire `A' type.	Kg.	66	63.01	4158.66
18	Danger Board in yard.	No.	15	50.00	750.00
19	Black Bituminus Paint	Ltr.	6	60.00	360.00
20	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
21	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
22	Concreting ration 1:4:8	Cmt.	17.5	2596.08	45431.44
23	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
24	Sundries	LS	1	770.00	770.00
25	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**354170.02**

1	Transportation on material	4.00%	14167
2	T&P on material cost	1.00%	3542
3	Contigencies on material	0.50%	1771
5	Erection cost on material	15.00%	53126
6	Contractor supervision charges on material	5.00%	17709
7	Insurance , Labour & Finance Cost	2.50%	8854
	Service Cost		**99168**
	Sub-Total		**453338**
8	Turnkey Charges	4.00%	18134
	Total		**471471**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	599433	471471
Total Cost of the Estimate	599433	471471

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)

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MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0901					
11 KV Pin type line with 34 sqmm AAAC Conductor & 200 Kg PSC Poles					
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	2060.00	37080.00
2	M.S. Flats(50 X 10mm)	Kg.	39	47.55	1854.45
3	11 KV V cross arm with clamp	No.	12	626.03	7512.36
4	11 KV Top fitting with clamp	No.	12	89.03	1068.36
5	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
6	11 kv guarding channel MS 75x40	Kg.	104	50.78	5281.12
7	Disc Insulator 11 KV 7000 KG.	No.	24	344.48	8267.52
8	11 kV Pin Insulators with G.I. Pins	No.	42	135.11	5674.42
9	AAAC 34 mm2	Rmt	3150	17.80	56070.00
10	Strain Hardware forWeasel/Squirrel	Set	24	178.40	4281.60
11	Sleve Joints	No.	3	115.21	345.63
12	H.T.Stay Set	No.	8	586.66	4693.28
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
14	Earthing Sets H.T	No	18	335.51	6039.18
15	G.I.Barbed Wire `A' type.	Kg.	30	63.01	1890.30
16	Danger Board in yard.	No.	18	50.00	900.00
17	Black Bituminus Paint	Ltr.	6	60.00	360.00
18	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
19	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
21	Concreting ration 1:4:8	LS	1	2596.08	2596.08
22	Sundries	LS	2	770.00	1540.00
23	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**168254.22**

1	Transportation on material	4.00%	6730
2	T&P on material cost	1.00%	1683
3	Contigencies on material	0.50%	841
5	Erection cost on material	15.00%	25238
6	Contractor supervision charges on material	5.00%	8413
7	Insurance , Labour & Finance Cost	2.50%	4206
	Service Cost		**47111**
	Sub-Total		**215365**
8	Turnkey Charges	4.00%	8615
	Total		**223980**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	284770	223980
Total Cost of the Estimate	284770	223980

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Item Code No.0903					
Cost data for 1.0 Km. pin type 11 KV line in town with AAAC,34 Sqmm conductor on RSJ Pole.					
Sr.No	**Description of Material**	**Unit**	**Qty.**	**RT/U Rs.**	**Amount**
1	RSJ 116x100, 11 m long	No.	17	11089.00	188513.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	11 kv guarding channel MS 75x40	Kg.	104	50.78	5281.12
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
6	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
7	11 KV V cross arm with clamp	No.	13	626.03	8138.39
8	11 KV Top fitting with clamp	No.	13	89.03	1157.39
9	11 kV Pin Insulators with G.I. Pins	No.	39	135.11	5269.11
10	Disc Insulator 11 KV 7000 KG.	No.	24	344.48	8267.52
11	Strain Hardware for 34 Sq.mm AAAC	Set	24	140.00	3360.00
12	AAAC 34 mm2	Rmt	3150	17.80	56070.00
13	H.T.Stay Set	Set	8	586.66	4693.28
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
15	Earthing Sets H.T	Set	17	335.51	5703.67
16	G.I.Barbed Wire `A' type.	Kg.	66	63.01	4158.66
17	Danger Board in yard.	No.	17	50.00	850.00
18	Black Bituminus Paint	Ltr.	6	60.00	360.00
19	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
20	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
21	Concreting ration 1:4:8	Cmt.	17	2596.08	44133.40
22	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
23	G.I.Nut Bolts	Kg.	80	82.89	6631.14
24	Wedge connectors				
a)	WEASEL TO WEASEL or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**388948.11**

1	Transportation on material	4.00%	15558
2	T&P on material cost	1.00%	3889
3	Contigencies on material	0.50%	1945
5	Erection cost on material	15.00%	58342
6	Contractor supervision charges on material	5.00%	19447
7	Insurance , Labour & Finance Cost	2.50%	9724
	Service Cost		**108905**
	Sub-Total		**497854**
8	Turnkey Charges	4.00%	19914
	Total		**517768**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	658295	517768
Total Cost of the Estimate	658295	517768

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)

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0905

Cost data for11 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	17887.00	304079.00
2	RSJ 116x100, 10 m long	No.	2	10081.00	20162.00
3	11 kv guarding channel MS 75x40	Kg.	104	50.78	5281.12
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	11 KV V cross arm with clamp	No.	13	626.03	8138.39
6	11 KV Top fitting with clamp	No.	13	89.03	1157.39
7	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
8	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	11 kV Pin Insulators with G.I. Pins	No.	39	135.11	5269.11
11	Disc Insulator 11 KV 7000 KG.	No.	24	344.48	8267.52
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	321.66	7719.84
13	AAAC 100 mm2	Rmt	3150	50.80	160020.00
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	8	586.66	4693.28
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
17	Earthing Sets H.T	Set	17	335.51	5703.67
18	G.I.Barbed Wire `A' type.	Kg.	71	63.01	4473.71
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:4:8	Cmt.	18	2596.08	46729.48
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**630363.12**

1	Transportation on material	4.00%	25215
2	T&P on material cost	1.00%	6304
3	Contigencies on material	0.50%	3152
5	Erection cost on material	15.00%	94554
6	Contractor supervision charges on material	5.00%	31518
7	Insurance , Labour & Finance Cost	2.50%	15759
	Service Cost		**176502**
	Sub-Total		**806865**
8	Turnkey Charges	4.00%	32275
	Total		**839139**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	1066890	839139
Total Cost of the Estimate	1066890	839139

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.

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0906

Cost data for11 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	10081.00	171377.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	11 kv guarding channel MS 75x40	Kg.	104	50.78	5281.12
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
6	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
7	11 KV V cross arm with clamp	No.	13	626.03	8138.39
8	11 KV Top fitting with clamp	No.	13	89.03	1157.39
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	11 kV Pin Insulators with G.I. Pins	No.	39	135.11	5269.11
11	Disc Insulator 11 KV 7000 KG.	No.	24	344.48	8267.52
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	321.66	7719.84
13	AAAC 100 mm2	Rmt	3150	50.80	160020.00
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	8	586.66	4693.28
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
17	Earthing Sets H.T	Set	17	335.51	5703.67
18	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**501215.35**

1	Transportation on material	4.00%	20049
2	T&P on material cost	1.00%	5012
3	Contigencies on material	0.50%	2506
5	Erection cost on material	15.00%	75182
6	Contractor supervision charges on material	5.00%	25061
7	Insurance , Labour & Finance Cost	2.50%	12530
	Service Cost		**140340**
	Sub-Total		**641556**
8	Turnkey Charges	4.00%	25662
	Total		**667218**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	848307	667218
Total Cost of the Estimate	848307	667218

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.

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MSEDCL

Item Code No. 0907

Cost data for11 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	9073.00	154241.00
2	RSJ 116x100, 8 m long	No.	2	8065.00	16130.00
3	11 kv guarding channel MS 75x40	Kg.	104	50.78	5281.12
4	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
5	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
6	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
7	11 KV V cross arm with clamp	No.	13	626.03	8138.39
8	11 KV Top fitting with clamp	No.	13	89.03	1157.39
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	11 kV Pin Insulators with G.I. Pins	No.	39	135.11	5269.11
11	Disc Insulator 11 KV 7000 KG.	No.	24	344.48	8267.52
12	Strain Hardware for 55 Sq.mm AAAC	Set	24	140.00	3360.00
13	AAAC 55 mm2	Rmt	3150	28.00	88200.00
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	8	586.66	4693.28
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
17	Earthing Sets H.T	Set	17	335.51	5703.67
18	G.I.Barbed Wire `A' type.	Kg.	71	63.01	4473.71
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:4:8	Cmt.	18	2596.08	46729.48
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**389645.76**

1	Transportation on material	4.00%	15586
2	T&P on material cost	1.00%	3896
3	Contigencies on material	0.50%	1948
5	Erection cost on material	15.00%	58447
6	Contractor supervision charges on material	5.00%	19482
7	Insurance , Labour & Finance Cost	2.50%	9741
	Service Cost		**109101**
	Sub-Total		**498747**
8	Turnkey Charges	4.00%	19950
	Total		**518696**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	659475	518696
Total Cost of the Estimate	659475	518696

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.

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0908

Cost data for11 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	2060.00	37080.00
2	11 kv guarding channel MS 75x40	Kg.	104	50.78	5281.12
3	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
4	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
5	11 KV V cross arm with clamp	No.	12	626.03	7512.36
6	11 KV Top fitting with clamp	No.	12	89.03	1068.36
7	M.S. Flats(50 X 10mm)	Kg.	39	47.55	1854.45
8	11 kV Pin Insulators with G.I. Pins	No.	42	135.11	5674.42
9	Disc Insulator 11 KV 7000 KG.	No.	24	344.48	8267.52
10	Strain Hardware for 55 Sq.mm AAAC	Set	24	140.00	3360.00
11	AAAC 55 mm2	Rmt	3150	28.00	88200.00
12	Sleve Joints	No.	3	115.21	345.63
13	H.T.Stay Set	Set	8	586.66	4693.28
14	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
15	Earthing Sets H.T	Set	18	335.51	6039.18
16	G.I.Barbed Wire `A' type.	Kg.	71	63.01	4473.71
17	Danger Board in yard.	No.	18	50.00	900.00
18	Concreting ration 1:4:8	Cmt.	18	2596.08	46729.48
19	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
20	Black Bituminus Paint	Ltr.	6	60.00	360.00
21	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
22	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
23	G.I.Nut Bolts	Kg.	90	82.89	7460.03
24	Sundries	LS	1	770.00	770.00
25	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**256525.63**

1	Transportation on material	4.00%	10261
2	T&P on material cost	1.00%	2565
3	Contigencies on material	0.50%	1283
5	Erection cost on material	15.00%	38479
6	Contractor supervision charges on material	5.00%	12826
7	Insurance , Labour & Finance Cost	2.50%	6413
	Service Cost		**71827**
	Sub-Total		**328353**
8	Turnkey Charges	4.00%	13134
	Total		**341487**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	434170	341487
Total Cost of the Estimate	434170	341487

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)

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MSEDCL

Item Code No. 0909					
Cost for 1.0 Km. Suspention 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	11089.00	188513.00
2	RSJ 116x100, 10 m long	No.	2	10081.00	20162.00
3	M.S.Channel 75x40x6 mm	Kg.	524	50.78	26608.72
4	MS angle 50x50x6 mm	Kg.	248	50.78	12593.44
5	M.S. Flats(50 X 10mm)	Kg.	107	47.55	5087.85
6	Disc Insulator 11 KV 7000 KG.	No.	63	344.48	21702.24
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	321.66	7719.84
8	SSN Hardware for 0.1 Dog or AAAC 100 Sq.mm	Set	39	224.63	8760.57
9	AAAC 100 mm2	Rmt	3150	50.80	160020.00
10	Sleve Joints	No.	3	115.21	345.63
11	H.T.Stay Set	Set	8	586.66	4693.28
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
13	Earthing Sets H.T	Set	17	335.51	5703.67
14	G.I.Barbed Wire `A' type.	Kg.	71	63.01	4473.71
15	Danger Board in yard.	No.	17	50.00	850.00
16	Concreting ration 1:4:8	Cmt.	18	2596.08	46729.48
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
18	Black Bituminus Paint	Ltr.	6	60.00	360.00
19	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
20	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
21	G.I.Nut Bolts	Kg.	90	82.89	7460.03
22	Sundries	LS	1	770.00	770.00
23	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**549825.74**

1	Transportation on material	4.00%	21993
2	T&P on material cost	1.00%	5498
3	Contigencies on material	0.50%	2749
5	Erection cost on material	15.00%	82474
6	Contractor supervision charges on material	5.00%	27491
7	Insurance , Labour & Finance Cost	2.50%	13746
	Service Cost		**153951**
	Sub-Total		**703777**
8	Turnkey Charges	4.00%	28151
	Total		**731928**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	930580	731928
Total Cost of the Estimate	930580	731928

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.

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MSEDCL

Item Code No. 0910

Cost data for11 KV Single circuit Suspension type with 55sq.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	11089.00	188513.00
2	RSJ 116x100, 10 m long	No.	2	10081.00	20162.00
3	M.S.Channel 75x40x6 mm	Kg.	524	50.78	26608.72
4	MS angle 50x50x6 mm	Kg.	248	50.78	12593.44
5	M.S. Flats(50 X 10mm)	Kg.	107	47.55	5087.85
6	Disc Insulator 11 KV 7000 KG.	No.	63	344.48	21702.24
7	Strain Hardware for 55 Sq.mm AAAC	Set	24	140.00	3360.00
8	Suspension Hardware for 55 sq mm Condr.	No.	39.00	149.62	5835.18
9	AAAC 55 mm2	Rmt	3150	28.00	88200.00
10	Sleve Joints	No.	3	115.21	345.63
11	H.T.Stay Set	Set	8	586.66	4693.28
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
13	Earthing Sets H.T	Set	17	335.51	5703.67
14	G.I.Barbed Wire `A' type.	Kg.	71	63.01	4473.71
15	Danger Board in yard.	No.	17	50.00	850.00
16	Concreting ration 1:4:8	Cmt.	18	2596.08	46729.48
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
18	Black Bituminus Paint	Ltr.	6	60.00	360.00
19	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
20	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
21	G.I.Nut Bolts	Kg.	90	82.89	7460.03
22	Sundries	LS	1	770.00	770.00
23	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**460052.99**

1	Transportation on material	4.00%	18402
2	T&P on material cost	1.00%	4601
3	Contigencies on material	0.50%	2300
5	Erection cost on material	15.00%	69008
6	Contractor supervision charges on material	5.00%	23003
7	Insurance , Labour & Finance Cost	2.50%	11501
	Service Cost		**128815**
	Sub-Total		**588868**
8	Turnkey Charges	4.00%	23555
	Total		**612423**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	778640	612423
Total Cost of the Estimate	778640	612423

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.

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MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	11089.00	44356.00
2	M.S.Channel 75x40x6 mm	Kg.	160	50.78	8124.80
3	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
4	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
5	AAAC 55 mm2	m	100	28.00	2800.00
6	11 kV Pin Insulators with G.I. Pins	NO.	6	135.11	810.63
7	Disc Insulator 11 KV 4500 KG.	NO.	12	244.47	2933.64
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
9	H.T.Stay Set	No	4	586.66	2346.64
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
11	Earthing Sets H.T	No.	4	335.51	1342.04
12	Danger Board in yard.	No.	4	50.00	200.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
14	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
15	Concreting ration 1:4:8	CMT.	4	2596.08	10384.33
16	Black Bituminus Paint	Ltr.	1	60.00	60.00
17	Red Oxide Paint for 2 coats	Ltr.	3	60.00	180.00
18	Aluminium Paint for 1 coat	Ltr.	2	93.93	187.86
19	Sundries	L.S.	1	770.00	770.00
20	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	12	114.11	1369.34
	Cost of material				**84774.25**

1	Transportation on material	4.00%	3391
2	T&P on material cost	1.00%	848
3	Contigencies on material	0.50%	424
5	Erection cost on material	15.00%	12716
6	Contractor supervision charges on material	5.00%	4239
7	Insurance , Labour & Finance Cost	2.50%	2119
	Service Cost		**23737**
	Sub-Total		**108511**
8	Turnkey Charges	4.00%	4340
	Total		**112851**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	143480	112851
Total Cost of the Estimate	143480	112851

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	160	50.78	8124.80
3	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
4	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
5	AAAC 100 mm2	m	100	50.80	5080.00
6	11 kV Pin Insulators with G.I. Pins	NO.	6	135.11	810.63
7	Disc Insulator 11 KV 4500 KG.	NO.	12	244.47	2933.64
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	321.66	3859.92
9	H.T.Stay Set	No	4	586.66	2346.64
10	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
11	Earthing Sets H.T	No.	4	335.51	1342.04
12	Danger Board in yard.	No.	4	50.00	200.00
13	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
14	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
15	Concreting ration 1:4:8	CMT.	4	2596.08	10384.33
16	Black Bituminus Paint	Ltr.	2	60.00	120.00
17	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
18	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
19	Sundries	L.S.	1	770.00	770.00
20	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	12	558.59	6703.10
	Cost of material				**134945.83**

1	Transportation on material	4.00%	5398
2	T&P on material cost	1.00%	1349
3	Contigencies on material	0.50%	675
5	Erection cost on material	15.00%	20242
6	Contractor supervision charges on material	5.00%	6747
7	Insurance , Labour & Finance Cost	2.50%	3374
	Service Cost		**37785**
	Sub-Total		**172731**
8	Turnkey Charges	4.00%	6909
	Total		**179640**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	228396	179640
Total Cost of the Estimate	228396	179640

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MSEDCL

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	1130.43	1130430.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	RCC Tiles (0.6 x 0.5) Mtrs.	No.	940.00	94.82	89130.80
4	11 kV heat shrinkable Straight through joint kit for 3 C X 300 sqmm	No	2.00	5288.96	10577.92
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	No.	2.00	2029.48	4058.96
6	Sand	Cmt	250.00	210.13	52532.50
7	Misc. for XLPE U/G Cable	LS	1.00	1000.00	1000.00
	Cost of material				**1303330.18**

1	Transportation on material	4.00%	52133
2	T&P on material cost	1.00%	13033
3	Contigencies on material	0.50%	6517
5	Erection cost on material	15.00%	195500
6	Contractor supervision charges on material	5.00%	65167
7	Insurance , Labour & Finance Cost	2.50%	32583
	Service Cost		**364932**
	Sub-Total		**1668263**
8	Turnkey Charges	4.00%	66731
	Total		**1734993**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2205886	1734993
Total Cost of the Estimate	2205886	1734993

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MSEDCL

Item Code No. 0914					
Cost Data for laying 11 KV 3x240 sq.mm XLPE under ground Cable					
Sr.No.	**Particulars**	**Unit**	**Qty.**	**Rate (Rs.)**	**Amount**
1	XLPE Cable 11 KV, 3 C / 240 mm sq.	Rmt	1000.00	982.46	982460.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 240 sqmm	No	2.00	5288.96	10577.92
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 240 sqmm	No.	2.00	2029.48	4058.96
6	Sand	Cmt	250.00	210.13	52532.50
7	Misc. for XLPE U/G Cable	LS	1.00	1000.00	1000.00
	Cost of material				**1160229.38**

1	Transportation on material	4.00%	46409
2	T&P on material cost	1.00%	11602
3	Contigencies on material	0.50%	5801
5	Erection cost on material	15.00%	174034
6	Contractor supervision charges on material	5.00%	58011
7	Insurance , Labour & Finance Cost	2.50%	29006
	Service Cost		**324864**
	Sub-Total		**1485094**
8	Turnkey Charges	4.00%	59404
	Total		**1544497**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1963688	1544497
Total Cost of the Estimate	1963688	1544497

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MSEDCL

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	794.00	794000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 185 sqmm	No.	2.00	5042.96	10085.92
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 185 sqmm	No.	2.00	1906.49	3812.98
6	Sand	Cmt	250.00	210.13	52532.50
7	Misc. for XLPE U/G Cable	LS	1.00	1000.00	1000.00
	Cost of material				**971031.40**

1	Transportation on material	4.00%	38841
2	T&P on material cost	1.00%	9710
3	Contigencies on material	0.50%	4855
5	Erection cost on material	15.00%	145655
6	Contractor supervision charges on material	5.00%	48552
7	Insurance , Labour & Finance Cost	2.50%	24276
	Service Cost		**271889**
	Sub-Total		**1242920**
8	Turnkey Charges	4.00%	49717
	Total		**1292637**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1643471	1292637
Total Cost of the Estimate	1643471	1292637

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MSEDCL

Item Code No.0916					
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	636.67	636670.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	No.	2.00	4181.97	8363.94
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No.	2.00	1458.10	2916.20
6	Sand	Cmt	250.00	210.13	52532.50
7	Misc. for XLPE U/G Cable	LS	1.00	1000.00	1000.00
	Cost of material				**811082.64**

1	Transportation on material	4.00%	32443
2	T&P on material cost	1.00%	8111
3	Contigencies on material	0.50%	4055
5	Erection cost on material	15.00%	121662
6	Contractor supervision charges on material	5.00%	40554
7	Insurance , Labour & Finance Cost	2.50%	20277
	Service Cost		**227103**
	Sub-Total		**1038186**
8	Turnkey Charges	4.00%	41527
	Total		**1079713**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1372757	1079713
Total Cost of the Estimate	1372757	1079713

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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	794.00	794000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 185 sqmm	No	2.00	5042.96	10085.92
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 185 sqmm	No.	2.00	1906.49	3812.98
6	Sand	Cmt	250.00	210.13	52532.50
7	Misc. for XLPE U/G Cable	LS	1.00	1000.00	1000.00

	Cost of material		**971031.40**
1	Transportation on material	4.00%	38841
2	T&P on material cost	1.00%	9710
3	Contigencies on material	0.50%	4855
5	Erection cost on material	15.00%	145655
6	Contractor supervision charges on material	5.00%	48552
7	Insurance , Labour & Finance Cost	2.50%	24276
	Service Cost		**271889**
	Sub-Total		**1242920**
8	Turnkey Charges	4.00%	49717
	Total		**1292637**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1643471	1292637
Total Cost of the Estimate	1643471	1292637

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MSEDCL

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	636.67	636670.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	No	2.00	4181.97	8363.94
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No.	2.00	1458.10	2916.20
6	Sand	Cmt	250.00	210.13	52532.50
7	Misc. for XLPE U/G Cable	LS	1.00	1000.00	1000.00

	Cost of material		**811082.64**
1	Transportation on material	4.00%	32443
2	T&P on material cost	1.00%	8111
3	Contigencies on material	0.50%	4055
5	Erection cost on material	15.00%	121662
6	Contractor supervision charges on material	5.00%	40554
7	Insurance , Labour & Finance Cost	2.50%	20277
	Service Cost		**227103**
	Sub-Total		**1038186**
8	Turnkey Charges	4.00%	41527
	Total		**1079713**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1372757	1079713
Total Cost of the Estimate	1372757	1079713

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MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 0919					
Cost data for Major river crossing with 55 sqmm overhead conductor on 152X152MM,13 mtr RSJ pole as per sketch for one span of					
S.N.	**Description of Material**	**Unit**	**QTY**	**RT/U.Rs.**	**Amt Rs.**
1	RSJ 152x152, 13 m long	No.	4	21139.00	84556.00
2	M.S.Channel 75x40x6 mm	Kg.	75	50.78	3808.50
3	MS Channel 100x50x6 mm	Kg.	110	50.78	5585.80
4	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
6	AAAC 55 mm2	Rmt	330	28.00	9240.00
7	11 kV Pin Insulators with G.I. Pins	NO.	6	135.11	810.63
8	Disc Insulator 11 KV 4500 KG.	NO.	12	244.47	2933.64
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	12	321.66	3859.92
10	H.T.Stay Set	No	4	586.66	2346.64
11	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Danger Board in yard.	No.	4	50.00	200.00
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
15	G.I.Barbed Wire `A' type.	kg.	30	63.01	1890.30
16	Black Bituminus Paint	Ltr.	2	60.00	120.00
17	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
18	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
19	Concreting ration 1:4:8	CMT.	4	2596.08	10384.33
20	Sundries	L.S.	1	770.00	770.00
21	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	12	114.11	1369.34
	Cost of material				**135041.57**

1	Transportation on material	4.00%	5402
2	T&P on material cost	1.00%	1350
3	Contigencies on material	0.50%	675
5	Erection cost on material	15.00%	20256
6	Contractor supervision charges on material	5.00%	6752
7	Insurance , Labour & Finance Cost	2.50%	3376
	Service Cost		**37812**
	Sub-Total		**172853**
8	Turnkey Charges	4.00%	6914
	Total		**179767**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	228558	179767
Total Cost of the Estimate	228558	179767

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MSEDCL

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	21139.00	42278.00
2	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
3	MS Channel 100x50x6 mm	Kg.	110	50.78	5585.80
4	M.S.Channel 75x40x6 mm	Kg.	75	50.78	3808.50
5	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
7	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
8	H.T.Stay Set	No.	2	586.66	1173.32
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	56.32	1408.00
10	Earthing Sets H.T	No	2	335.51	671.02
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	56.27	337.62
12	G.I.Barbed Wire `A' type.	kg.	7	63.01	441.07
13	Danger Board in yard.	No.	2	50.00	100.00
14	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
15	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
16	Black Bituminus Paint	Ltr.	2	60.00	120.00
17	Concreting ration 1:4:8	Cmt.	2	2596.08	5192.16
18	Sundries	L.S.	1	770.00	770.00
	Cost of material				**69632.55**

1	Transportation on material	4.00%	2785
2	T&P on material cost	1.00%	696
3	Contigencies on material	0.50%	348
5	Erection cost on material	15.00%	10445
6	Contractor supervision charges on material	5.00%	3482
7	Insurance , Labour & Finance Cost	2.50%	1741
	Service Cost		**19497**
	Sub-Total		**89130**
8	Turnkey Charges	4.00%	3565
	Total		**92695**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	117853	92695
Total Cost of the Estimate	117853	92695

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	17887.00	35774.00
2	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
3	MS Channel 100x50x6 mm	Kg.	110	50.78	5585.80
4	M.S.Channel 75x40x6 mm	Kg.	75	50.78	3808.50
5	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
7	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
8	H.T.Stay Set	No.	2	586.66	1173.32
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	56.32	1408.00
10	Earthing Sets H.T	No	2	335.51	671.02
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	56.27	337.62
12	G.I.Barbed Wire `A' type.	kg.	7	63.01	441.07
13	Danger Board in yard.	No.	2	50.00	100.00
14	Black Bituminus Paint	Ltr.	2	60.00	120.00
15	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
16	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
17	Concreting ration 1:4:8	Cmt.	2	2596.08	5192.16
18	Sundries	L.S.	1	770.00	770.00
	Cost of material				**63128.55**

1	Transportation on material	4.00%	2525
2	T&P on material cost	1.00%	631
3	Contigencies on material	0.50%	316
5	Erection cost on material	15.00%	9469
6	Contractor supervision charges on material	5.00%	3156
7	Insurance , Labour & Finance Cost	2.50%	1578
	Service Cost		**17676**
	Sub-Total		**80805**
8	Turnkey Charges	4.00%	3232
	Total		**84037**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	106845	84037
Total Cost of the Estimate	106845	84037

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CIN: U40109MH2005SGC153645

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	11089.00	22178.00
2	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
3	MS Channel 100x50x6 mm	Kg.	110	50.78	5585.80
4	M.S.Channel 75x40x6 mm	Kg.	75	50.78	3808.50
5	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
6	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
7	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
8	H.T.Stay Set	No.	2	586.66	1173.32
9	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	56.32	1408.00
10	Earthing Sets H.T	No	2	335.51	671.02
11	G.I.Wire 8 SWG/ 6 SWG	kg.	6	56.27	337.62
12	G.I.Barbed Wire `A' type.	kg.	7	63.01	441.07
13	Danger Board in yard.	No.	2	50.00	100.00
14	Black Bituminus Paint	Ltr.	2	60.00	120.00
15	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
16	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
17	Concreting ration 1:4:8	Cmt.	2	2596.08	5192.16
18	Sundries	L.S.	1	770.00	770.00
	Cost of material				**49532.55**

1	Transportation on material	4.00%	1981
2	T&P on material cost	1.00%	495
3	Contigencies on material	0.50%	248
5	Erection cost on material	15.00%	7430
6	Contractor supervision charges on material	5.00%	2477
7	Insurance , Labour & Finance Cost	2.50%	1238
	Service Cost		**13869**
	Sub-Total		**63402**
8	Turnkey Charges	4.00%	2536
	Total		**65938**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	83834	65938
Total Cost of the Estimate	83834	65938

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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	9073.00	9073.00
2	M.S.Channel 75x40x6 mm	Kg.	40	50.78	2031.20
3	MS angle 50x50x6 mm	Kg.	25	50.78	1269.50
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
5	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
6	H.T.Stay Set	No.	2	586.66	1173.32
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	56.32	732.16
8	Earthing Sets H.T	No.	1	335.51	335.51
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	56.27	112.54
10	G.I.Barbed Wire `A' type.	Kg.	2	63.01	126.02
11	Danger Board in yard.	No.	1	50.00	50.00
12	Black Bituminus Paint	Ltr.	0.5	60.00	30.00
13	Red Oxide Paint for 2 coats	Ltr.	1.5	60.00	90.00
14	Aluminium Paint for 1 coat	Ltr.	1	93.93	93.93
15	Concreting ration 1:4:8	Cmt.	1.5	2596.08	3894.12
16	Sundries	LS	1	770.00	770.00
	Cost of material				**23778.14**

1	Transportation on material	4.00%	951
2	T&P on material cost	1.00%	238
3	Contigencies on material	0.50%	119
5	Erection cost on material	15.00%	3567
6	Contractor supervision charges on material	5.00%	1189
7	Insurance , Labour & Finance Cost	2.50%	594
	Service Cost		**6658**
	Sub-Total		**30436**
8	Turnkey Charges	4.00%	1217
	Total		**31653**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	40245	31653
Total Cost of the Estimate	40245	31653

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item code No. 0924					
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	17887.00	17887.00
2	M.S.Channel 75x40x6 mm	Kg.	40	50.78	2031.20
3	MS angle 50x50x6 mm	Kg.	25	50.78	1269.50
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
5	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
6	H.T.Stay Set	No.	2	586.66	1173.32
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	56.32	732.16
8	Earthing Sets H.T	No.	1	335.51	335.51
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	56.27	112.54
10	G.I.Barbed Wire `A' type.	Kg.	2	63.01	126.02
11	Black Bituminus Paint	Ltr.	0.5	60.00	30.00
12	Red Oxide Paint for 2 coats	Ltr.	1.5	60.00	90.00
13	Aluminium Paint for 1 coat	Ltr.	1	93.93	93.93
14	Danger Board in yard.	No.	1	50.00	50.00
15	Concreting ration 1:4:8	Cmt.	1.5	2596.08	3894.12
16	Sundries	LS	1	770.00	770.00
	Cost of material				**32592.14**

1	Transportation on material	4.00%	1304
2	T&P on material cost	1.00%	326
3	Contigencies on material	0.50%	163
5	Erection cost on material	15.00%	4889
6	Contractor supervision charges on material	5.00%	1630
7	Insurance , Labour & Finance Cost	2.50%	815
	Service Cost		**9126**
	Sub-Total		**41718**
8	Turnkey Charges	4.00%	1669
	Total		**43387**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	55162	43387
Total Cost of the Estimate	55162	43387

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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	2060.00	2060.00
2	M.S.Channel 75x40x6 mm	Kg.	40	50.78	2031.20
3	MS angle 50x50x6 mm	Kg.	25	50.78	1269.50
4	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
5	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
6	H.T.Stay Set	No.	2	586.66	1173.32
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	13	56.32	732.16
8	Earthing Sets H.T	No.	1	335.51	335.51
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	56.27	112.54
10	G.I.Barbed Wire `A' type.	Kg.	2	63.01	126.02
11	Danger Board in yard.	No.	1	50.00	50.00
12	Black Bituminus Paint	Ltr.	0.5	60.00	30.00
13	Red Oxide Paint for 2 coats	Ltr.	1.5	60.00	90.00
14	Aluminium Paint for 1 coat	Ltr.	1	93.93	93.93
15	Concreting ration 1:4:8	Cmt.	1.5	2596.08	3894.12
16	Sundries	LS	1	770.00	770.00
	Cost of material				**16765.14**

1	Transportation on material	4.00%	671
2	T&P on material cost	1.00%	168
3	Contigencies on material	0.50%	84
5	Erection cost on material	15.00%	2515
6	Contractor supervision charges on material	5.00%	838
7	Insurance , Labour & Finance Cost	2.50%	419
	Service Cost		**4694**
	Sub-Total		**21459**
8	Turnkey Charges	4.00%	858
	Total		**22318**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	28375	22318
Total Cost of the Estimate	28375	22318

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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	11089.00	188513.00
2	RSJ 116x100, 10 m long	No.	2	10081.00	20162.00
3	11 kv guarding channel MS 75x40	Kg.	104	50.78	5281.12
4	11 KV V cross arm with clamp	No.	13	626.03	8138.39
5	11 KV Top fitting with clamp	No.	13	89.03	1157.39
6	M.S.Channel 75x40x6 mm	Kg.	122	50.78	6195.16
7	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
8	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	11 kV Pin Insulators with G.I. Pins	No.	39	135.11	5269.11
11	Disc Insulator 11 KV 7000 KG.	No.	24	344.48	8267.52
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	24	321.66	7719.84
13	AAAC 100 mm2	Rmt	3150	50.80	160020.00
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	8	586.66	4693.28
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	80	56.32	4505.60
17	Earthing Sets H.T	Set	17	335.51	5703.67
18	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
19	Danger Board in yard.	No.	17	50.00	850.00
20	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	130	56.27	7315.10
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**520367.35**

1	Transportation on material	4.00%	20815
2	T&P on material cost	1.00%	5204
3	Contigencies on material	0.50%	2602
5	Erection cost on material	15.00%	78055
6	Contractor supervision charges on material	5.00%	26018
7	Insurance , Labour & Finance Cost	2.50%	13009
	Service Cost		**145703**
	Sub-Total		**666070**
8	Turnkey Charges	4.00%	26643
	Total		**692713**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	880722	692713
Total Cost of the Estimate	880722	692713

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.

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

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	80900.00	80900.00
	Cost of material				**80900.00**
1	Transportation on material	4.00%			3236
2	T&P on material cost	1.00%			809
3	Contigencies on material	0.50%			405
5	Erection cost on material	15.00%			12135
6	Contractor supervision charges on material	5.00%			4045
7	Insurance , Labour & Finance Cost	2.50%			2023
	Service Cost				**22652**
	Sub-Total				**103552**
8	Turnkey Charges	4.00%			4142
	Total				**107694**
9	HT Pillar Foundation		1.00	11995.00	11995
	Total Cost of Estimate				**119689**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	136923	107694
HT Pillar Foundation	11995	11995
Total Cost of the Estimate	148918	119689

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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	85200.00	85200.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	22 kV Pin Insulators with G.I. Pins	NO.	3	335.98	1007.93
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	15000.00	15000.00
10	L.A.s 22KV (Gapless type) with disconnector	Set.	1	2200.00	2200.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	22KV H.G.Fuses	Set.	1	4050.00	4050.00
15	22KV A.B.Switch	No.	1	12050.00	12050.00
16	Danger Board in yard.	No.	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
18	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
19	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
20	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
21	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	10007.01	10007.01
22	Sundries	L.S.	1	770.00	770.00
	Cost of material				**171607.00**

1	Transportation on material	4.00%	6864
2	T&P on material cost	1.00%	1716
3	Contigencies on material	0.50%	858
5	Erection cost on material	15.00%	25741
6	Contractor supervision charges on material	5.00%	8580
7	Insurance , Labour & Finance Cost	2.50%	4290
	Service Cost		**48050**
	Sub-Total		**219657**
8	Turnkey Charges	4.00%	8786
	Total		**228443**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	290445	228443
Total Cost of the Estimate	290445	228443

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CIN: U40109MH2005SGC153645

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	137609.00	137609.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	22 kV Pin Insulators with G.I. Pins	NO.	3	335.98	1007.93
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	15000.00	15000.00
10	L.A.s 22KV (Gapless type) with disconnector	Set.	1	2200.00	2200.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	22KV H.G.Fuses	Set.	1	4050.00	4050.00
15	22KV A.B.Switch	No.	1	12050.00	12050.00
16	Danger Board in yard.	No.	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
18	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
19	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
20	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
21	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	11954.61	11954.61
22	Sundries	L.S.	1	770.00	770.00
	Cost of material				**225963.60**

1	Transportation on material	4.00%	9039
2	T&P on material cost	1.00%	2260
3	Contigencies on material	0.50%	1130
5	Erection cost on material	15.00%	33895
6	Contractor supervision charges on material	5.00%	11298
7	Insurance , Labour & Finance Cost	2.50%	5649
	Service Cost		**63270**
	Sub-Total		**289233**
8	Turnkey Charges	4.00%	11569
	Total		**300803**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	382443	300803
Total Cost of the Estimate	382443	300803

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MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	183000.00	183000.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	22 kV Pin Insulators with G.I. Pins	NO.	3	335.98	1007.93
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	15325.00	15325.00
10	L.A.s 22KV (Gapless type) with disconnector	Set.	1	2200.00	2200.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	22KV H.G.Fuses	Set.	1	4050.00	4050.00
15	22KV A.B.Switch	No.	1	12050.00	12050.00
16	Danger Board in yard.	No.	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
18	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
19	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
20	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	14661.81	14661.81
22	Sundries	L.S.	1	770.00	770.00
	Cost of material				**274386.80**

1	Transportation on material	4.00%	10975
2	T&P on material cost	1.00%	2744
3	Contigencies on material	0.50%	1372
5	Erection cost on material	15.00%	41158
6	Contractor supervision charges on material	5.00%	13719
7	Insurance , Labour & Finance Cost	2.50%	6860
	Service Cost		**76828**
	Sub-Total		**351215**
8	Turnkey Charges	4.00%	14049
	Total		**365264**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	464400	365264
Total Cost of the Estimate	464400	365264

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	326000.00	326000.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	22 kV Pin Insulators with G.I. Pins	NO.	3	335.98	1007.93
8	Disc Insulator 11 KV 4500 KG.	No.	6	244.47	1466.82
9	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	24661.00	24661.00
11	L.A.s 22KV (Gapless type) with disconnector	Set.	1	2200.00	2200.00
12	H.T.Stay Set	No	4	586.66	2346.64
13	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
14	Earthing Sets H.T	No.	3	335.51	1006.53
15	22KV H.G.Fuses	Set.	1	4050.00	4050.00
16	22KV A.B.Switch	No.	1	12050.00	12050.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
19	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
20	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
21	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
22	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	23055.81	23055.81
23	Sundries	L.S.	1	770.00	770.00
	Cost of material				**436583.62**

1	Transportation on material	4.00%	17463
2	T&P on material cost	1.00%	4366
3	Contigencies on material	0.50%	2183
5	Erection cost on material	15.00%	65488
6	Contractor supervision charges on material	5.00%	21829
7	Insurance , Labour & Finance Cost	2.50%	10915
	Service Cost		**122243**
	Sub-Total		**558827**
8	Turnkey Charges	4.00%	22353
	Total		**581180**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	738918	581180
Total Cost of the Estimate	738918	581180

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MSEDCL

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	326000.00	326000.00
2	RSJ 116x100, 11 m long	No.	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	Kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	Kg.	24	48.20	1156.80
7	22 kV Pin Insulators with G.I. Pins	No.	3	335.98	1007.93
8	Disc Insulator 11 KV 4500 KG.	No.	6	244.47	1466.82
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	24661.00	24661.00
11	L.A.s 22KV (Gapless type) with disconnector	No.	1	2200.00	2200.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	56.32	901.12
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	22KV H.G.Fuses	Set	1	4050.00	4050.00
16	22KV A.B.Switch	No.	1	12050.00	12050.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	2.3	2596.08	5970.99
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	23055.81	23055.81
23	Sundries	LS	1	770.00	770.00
	Cost of material				**440643.82**

1	Transportation on material	4.00%	17626
2	T&P on material cost	1.00%	4406
3	Contigencies on material	0.50%	2203
5	Erection cost on material	15.00%	66097
6	Contractor supervision charges on material	5.00%	22032
7	Insurance , Labour & Finance Cost	2.50%	11016
	Service Cost		**123380**
	Sub-Total		**564024**
8	Turnkey Charges	4.00%	22561
	Total		**586585**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	745790	586585
Total Cost of the Estimate	745790	586585

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	451500.00	451500.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	124	50.78	6296.72
4	M.S.Channel 75x40x6 mm	Kg.	100	50.78	5078.00
5	MS angle 50x50x6 mm	Kg.	86	50.78	4367.08
6	M.S. Flats(50 X 10mm)	Kg.	56	47.55	2662.80
7	22 kV Pin Insulators with G.I. Pins	No.	3	335.98	1007.93
8	Disc Insulator 11 KV 4500 KG.	No.	6	244.47	1466.82
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	6 way feeder pillar with ACB	No.	1	61500.00	61500.00
11	L.A.s 22KV (Gapless type) with disconnector	Set	1	2200.00	2200.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	56.32	901.12
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	22KV H.G.Fuses	Set	1	4050.00	4050.00
16	22KV A.B.Switch	No.	1	12050.00	12050.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	10.25	2596.08	26609.84
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	30871.41	30871.41
24	Minor Fabrication, etc.				
	Cost of material				**636223.59**

1	Transportation on material	4.00%	25449
2	T&P on material cost	1.00%	6362
3	Contigencies on material	0.50%	3181
5	Erection cost on material	15.00%	95434
6	Contractor supervision charges on material	5.00%	31811
7	Insurance , Labour & Finance Cost	2.50%	15906
	Service Cost		**178143**
	Sub-Total		**814366**
8	Turnkey Charges	4.00%	32575
	Total		**846941**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1076808	846941
Total Cost of the Estimate	1076808	846941

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1008					
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	451500.00	451500.00
2	RSJ 116x100, 11 m long	No.	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg.	124	50.78	6296.72
4	M.S.Channel 75x40x6 mm	Kg.	100	50.78	5078.00
5	MS angle 50x50x6 mm	Kg.	86	50.78	4367.08
6	M.S. Flats(50 X 10mm)	Kg.	56	47.55	2662.80
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.11	405.32
8	Disc Insulator 11 KV 4500 KG.	No.	6	244.47	1466.82
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	6 way feeder pillar with ACB	No.	1	61500.00	61500.00
11	L.A.s 22KV (Gapless type) with disconnector	Set	1	2200.00	2200.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	56.32	901.12
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	22KV H.G.Fuses	Set	1	4050.00	4050.00
16	22KV A.B.Switch	No.	1	12050.00	12050.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	2.3	2596.08	5970.99
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	30871.41	30871.41
24	Minor Fabrication, etc.				
	Cost of material				**619014.13**

1	Transportation on material	4.00%	24761
2	T&P on material cost	1.00%	6190
3	Contigencies on material	0.50%	3095
5	Erection cost on material	15.00%	92852
6	Contractor supervision charges on material	5.00%	30951
7	Insurance , Labour & Finance Cost	2.50%	15475
	Service Cost		**173324**
	Sub-Total		**792338**
8	Turnkey Charges	4.00%	31694
	Total		**824032**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1047681	824032
Total Cost of the Estimate	1047681	824032

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MSEDCL

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	686500.00	686500.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	180	50.78	9140.40
4	M.S.Channel 75x40x6 mm	Kg.	150	50.78	7617.00
5	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
6	M.S. Flats(50 X 10mm)	Kg.	75	47.55	3566.25
7	22 kV Pin Insulators with G.I. Pins	No.	3	335.98	1007.93
8	Disc Insulator 11 KV 4500 KG.	No.	6	244.47	1466.82
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
11	L.A.s 22KV (Gapless type) with disconnector	Set	1	2200.00	2200.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	56.32	1351.68
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	22KV H.G.Fuses	Set	1	4050.00	4050.00
16	22KV A.B.Switch	No.	1	12050.00	12050.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	10.25	2596.08	26609.84
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
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	54564.21	54564.21
	Cost of material				**912864.00**

1	Transportation on material	4.00%	36515
2	T&P on material cost	1.00%	9129
3	Contigencies on material	0.50%	4564
5	Erection cost on material	15.00%	136930
6	Contractor supervision charges on material	5.00%	45643
7	Insurance , Labour & Finance Cost	2.50%	22822
	Service Cost		**255602**
	Sub-Total		**1168466**
8	Turnkey Charges	4.00%	46739
	Total		**1215205**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1545022	1215205
Total Cost of the Estimate	1545022	1215205

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1010					
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	686500.00	686500.00
2	RSJ 116x100, 11 m long	No.	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg.	180	50.78	9140.40
4	M.S.Channel 75x40x6 mm	Kg.	150	50.78	7617.00
5	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
6	M.S. Flats(50 X 10mm)	Kg.	75	47.55	3566.25
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.11	405.32
8	Disc Insulator 11 KV 4500 KG.	No.	6	244.47	1466.82
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
11	L.A.s 22KV (Gapless type) with disconnector	Set	1	2200.00	2200.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	56.32	1351.68
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	22KV H.G.Fuses	Set	1	4050.00	4050.00
16	22KV A.B.Switch	No.	1	12050.00	12050.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	3.5	2596.08	9086.29
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
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	54564.21	54564.21
	Cost of material				**898769.83**

1	Transportation on material	4.00%	35951
2	T&P on material cost	1.00%	8988
3	Contigencies on material	0.50%	4494
5	Erection cost on material	15.00%	134815
6	Contractor supervision charges on material	5.00%	44938
7	Insurance , Labour & Finance Cost	2.50%	22469
	Service Cost		**251656**
	Sub-Total		**1150425**
8	Turnkey Charges	4.00%	46017
	Total		**1196442**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1521168	1196442
Total Cost of the Estimate	1521168	1196442

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Item Code No. 1015					
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	137609.00	137609.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg	44	50.78	2234.32
5	MS angle 50x50x6 mm	Kg	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
7	22 kV Pin Insulators with G.I. Pins	No	3	335.98	1007.93
8	Strain Hardware forWeasel/Squirrel	Set	3	178.40	535.20
9	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14209.00	14209.00
10	L.A.s 22KV (Gapless type) with disconnector	No	1	2200.00	2200.00
11	H.T.Stay Set	Set	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	56.32	1408.00
13	Earthing Sets H.T	Set	7	335.51	2348.57
14	22KV H.G.Fuses	Set	1	4050.00	4050.00
15	22KV A.B.Switch	Set	1	12050.00	12050.00
16	Danger Board in yard.	No	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
18	G.I.Barbed Wire `A' type.	Kg.	15	63.01	945.15
19	Painting/Hardware & support with numbering of pole	No	1	219.57	219.57
20	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	Set	1	11954.61	11954.61
21	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
22	Sundries	LS	1	770.00	770.00
	Cost of Material				**226084.86**

1	Transportation on material	4.00%	9043
2	T&P on material cost	1.00%	2261
3	Contigencies on material	0.50%	1130
5	Erection cost on material	15.00%	33913
6	Contractor supervision charges on material	5.00%	11304
7	Insurance , Labour & Finance Cost	2.50%	5652
	Service Cost		**63304**
	Sub-Total		**289389**
8	Turnkey Charges	4.00%	11576
	Total		**300964**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	382649	300964
Total Cost of the Estimate	382649	300964

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	183000.00	183000.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg	44	50.78	2234.32
5	MS angle 50x50x6 mm	Kg	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
7	22 kV Pin Insulators with G.I. Pins	No	3	335.98	1007.93
8	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14209.00	14209.00
9	L.A.s 22KV (Gapless type) with disconnector	Set	1	2200.00	2200.00
10	H.T.Stay Set	Set	4	586.66	2346.64
11	Earthing Sets H.T	Set	5	335.51	1677.55
12	22KV H.G.Fuses	Set	1	4050.00	4050.00
13	22KV A.B.Switch	Set	1	12050.00	12050.00
14	Danger Board in yard.	No	2	50.00	100.00
15	Painting/Hardware & support with numbering of pole	LS	1	219.57	219.57
16	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No	1	14661.81	14661.81
17	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
18	Sundries	LS	1	770.00	770.00
	Cost of Material				**269216.94**

1	Transportation on material	4.00%	10769
2	T&P on material cost	1.00%	2692
3	Contigencies on material	0.50%	1346
5	Erection cost on material	15.00%	40383
6	Contractor supervision charges on material	5.00%	13461
7	Insurance , Labour & Finance Cost	2.50%	6730
	Service Cost		**75381**
	Sub-Total		**344598**
8	Turnkey Charges	4.00%	13784
	Total		**358382**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	455650	358382
Total Cost of the Estimate	455650	358382

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Item Code No. 1017					
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	183000.00	183000.00
2	RSJ 116x100, 11 m long	No	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg	44	50.78	2234.32
5	MS angle 50x50x6 mm	Kg	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
7	22 kV Pin Insulators with G.I. Pins	No	3	335.98	1007.93
8	Strain Hardware forWeasel/Squirrel	Set	3	178.40	535.20
9	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14209.00	14209.00
10	L.A.s 22KV (Gapless type) with disconnector	No	1	2200.00	2200.00
11	H.T.Stay Set	Set	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	56.32	1408.00
13	Earthing Sets H.T	Set	7	335.51	2348.57
14	22KV H.G.Fuses	Set	1	4050.00	4050.00
15	22KV A.B.Switch	Set	1	12050.00	12050.00
16	Danger Board in yard.	No	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
18	G.I.Barbed Wire `A' type.	Kg.	15	63.01	945.15
19	Painting/Hardware & support with numbering of pole	No	1	219.57	219.57
20	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	Set	1	14661.81	14661.81
21	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
22	Sundries	LS	1	770.00	770.00
	Cost of Material				**278215.06**

1	Transportation on material	4.00%	11129
2	T&P on material cost	1.00%	2782
3	Contigencies on material	0.50%	1391
5	Erection cost on material	15.00%	41732
6	Contractor supervision charges on material	5.00%	13911
7	Insurance , Labour & Finance Cost	2.50%	6955
	Service Cost		**77900**
	Sub-Total		**356115**
8	Turnkey Charges	4.00%	14245
	Total		**370360**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	470879	370360
Total Cost of the Estimate	470879	370360

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

Item Code No. 1101					
Cost Data for Augumentation of Pole mounted Distribution Transformer Sub-station					**22/0.433**
Sr.No	**Description of Material**	**Unit**	**Qty.**	**RT/U.Rs.**	**Amount (Rs.)**
1	Dist.transformer 100kva,22/0.4kv	No.	1	183000.00	183000.00
2	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	15325.00	15325.00
3	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	25	170.70	4267.50
4	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	10	286.71	2867.10
5	Sundries	no	1	770.00	770.00
	Cost of material				**206229.60**

1	Transportation on material	4.00%	8249
2	T&P on material cost	1.00%	2062
3	Contigencies on material	0.50%	1031
5	Erection cost on material	15.00%	30934
6	Contractor supervision charges on material	5.00%	10311
7	Insurance , Labour & Finance Cost	2.50%	5156
	Service Cost		**57744**
	Sub-Total		**263974**
8	Turnkey Charges	4.00%	10559
	Total		**274533**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	349044	274533
Total Cost of the Estimate	349044	274533

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CIN: U40109MH2005SGC153645

Item Code No. 1102					
Cost Data for Augumentation of Pole mounted Distribution Transformer Sub-station					**22/0.433**
Sr.No	**Description of Material**	**Unit**	**Qty.**	**RT/U.Rs.**	**Amount (Rs.)**
1	Dist.transformer 200kva,22/0.4kv	No.	1.00	326000.00	326000.00
2	L.T.Dist.Boxes 200 KVA with MCCB	No.	1.000	24661.00	24661.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25.00	286.71	7167.75
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10.00	558.30	5583.00
5	Sundries	LS	1.00	770.00	770.00
	Cost of material				**364181.75**

1	Transportation on material	4.00%	14567
2	T&P on material cost	1.00%	3642
3	Contigencies on material	0.50%	1821
5	Erection cost on material	15.00%	54627
6	Contractor supervision charges on material	5.00%	18209
7	Insurance , Labour & Finance Cost	2.50%	9105
	Service Cost		**101971**
	Sub-Total		**466153**
8	Turnkey Charges	4.00%	18646
	Total		**484799**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	616378	484799
Total Cost of the Estimate	616378	484799

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

Item Code No. 1103					
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 315 KVA, 22/0.43 kv	No.	1	451500.00	451500.00
2	6 way feeder pillar with ACB	No.	1	61500.00	61500.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25	286.71	7167.75
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10	558.30	5583.00
5	Sundries	LS	1	770.00	770.00
	Cost of Material				**526520.75**

1	Transportation on material	4.00%	21061
2	T&P on material cost	1.00%	5265
3	Contigencies on material	0.50%	2633
5	Erection cost on material	15.00%	78978
6	Contractor supervision charges on material	5.00%	26326
7	Insurance , Labour & Finance Cost	2.50%	13163
	Service Cost		**147426**
	Sub-Total		**673947**
8	Turnkey Charges	4.00%	26958
	Total		**700904**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	891136	700904
Total Cost of the Estimate	891136	700904

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

Item Code No. 1104					
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 315 KVA, 22/0.43 kv	No.	1	451500.00	451500.00
2	6 way feeder pillar with ACB	No.	1	61500.00	61500.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25	286.71	7167.75
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10	558.30	5583.00
5	Sundries	LS	1	770.00	770.00
	Cost of Material				**526520.75**

1	Transportation on material	4.00%	21061
2	T&P on material cost	1.00%	5265
3	Contigencies on material	0.50%	2633
5	Erection cost on material	15.00%	78978
6	Contractor supervision charges on material	5.00%	26326
7	Insurance , Labour & Finance Cost	2.50%	13163
	Service Cost		**147426**
	Sub-Total		**673947**
8	Turnkey Charges	4.00%	26958
	Total		**700904**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	891136	700904
Total Cost of the Estimate	891136	700904

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

Item Code No. 1105					
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	686500.00	686500.00
2	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	659.26	29666.70
4	Sundries	LS	1	770.00	770.00
	Cost of Material				**788936.70**

1	Transportation on material	4.00%	31557
2	T&P on material cost	1.00%	7889
3	Contigencies on material	0.50%	3945
5	Erection cost on material	15.00%	118341
6	Contractor supervision charges on material	5.00%	39447
7	Insurance , Labour & Finance Cost	2.50%	19723
	Service Cost		**220902**
	Sub-Total		**1009839**
8	Turnkey Charges	4.00%	40394
	Total		**1050233**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1335275	1050233
Total Cost of the Estimate	1335275	1050233

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Item Code No. 1106					
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	686500.00	686500.00
2	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
3	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
4	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	659.26	29666.70
5	Sundries	LS	1	770.00	770.00
	Cost of Material				**860936.70**

1	Transportation on material	4.00%	34437
2	T&P on material cost	1.00%	8609
3	Contigencies on material	0.50%	4305
5	Erection cost on material	15.00%	129141
6	Contractor supervision charges on material	5.00%	43047
7	Insurance , Labour & Finance Cost	2.50%	21523
	Service Cost		**241062**
	Sub-Total		**1101999**
8	Turnkey Charges	4.00%	44080
	Total		**1146079**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1457135	1146079
Total Cost of the Estimate	1457135	1146079

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CIN: U40109MH2005SGC153645

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	686500.00	686500.00
2	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
3	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
4	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	659.26	29666.70
5	Sundries	LS	1	770.00	770.00
	Cost of Material				**860936.70**

1	Transportation on material	4.00%	34437
2	T&P on material cost	1.00%	8609
3	Contigencies on material	0.50%	4305
5	Erection cost on material	15.00%	129141
6	Contractor supervision charges on material	5.00%	43047
7	Insurance , Labour & Finance Cost	2.50%	21523
	Service Cost		**241062**
	Sub-Total		**1101999**
8	Turnkey Charges	4.00%	44080
	Total		**1146079**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1457135	1146079
Total Cost of the Estimate	1457135	1146079

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(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1108					
Cost Data for Augumentation of Pole mounted Distribution Transformer Sub-station 22/0.433 kv, 100/200/315 KVA to 22/0.433 kv,					
Sr.No	**Description of Material**	**Unit**	**Qty.**	**RT/U Rs.**	**Amount (Rs.)**
1	Dist. Transformer 630 KVA, 22/0.43 kv	No.	1	686500.00	686500.00
2	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	659.26	29666.70
4	Sundries	LS	1	770.00	770.00
5	22 KV Lightning Arrestors (Screw type)	Set	1	8400.00	8400.00
6	Earthing Replenishment for DTC	Set	1	11181.73	11181.73
	Cost of Material				**808518.43**
1	Transportation on material	4.00%			32341
2	T&P on material cost	1.00%			8085
3	Contigencies on material	0.50%			4043
5	Erection cost on material	15.00%			121278
6	Contractor supervision charges on material	5.00%			40426
7	Insurance , Labour & Finance Cost	2.50%			20213
	Service Cost				**226385**
	Sub-Total				**1034904**
8	Turnkey Charges	4.00%			41396
	Total				**1076300**
	Concreting ration 1:4:8		10.25	2596.08	26610
	Total Cost of Estimate				**1102910**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1368417	1076300
Concreting ration 1:4:8	26610	26610
Total Cost of the Estimate	1395027	1102910

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CIN: U40109MH2005SGC153645

Item Code No. 1109					
Cost Data for Augumentation of Pole mounted Distribution Transformer Sub-station					**22/0.433**
Sr.No	**Description of Material**	**Unit**	**Qty.**	**RT/U.Rs.**	**Amount (Rs.)**
1	Dist.transformer 200kva,22/0.4kv	No.	1.00	326000.00	326000.00
2	L.T.Dist.Boxes 200 KVA with KitKat	No.	1.00	18479.00	18479.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25.00	286.71	7167.75
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10.00	558.30	5583.00
5	Sundries	LS	1.00	770.00	770.00
	Cost of material				**357999.75**

1	Transportation on material	4.00%	14320
2	T&P on material cost	1.00%	3580
3	Contigencies on material	0.50%	1790
5	Erection cost on material	15.00%	53700
6	Contractor supervision charges on material	5.00%	17900
7	Insurance , Labour & Finance Cost	2.50%	8950
	Service Cost		**100240**
	Sub-Total		**458240**
8	Turnkey Charges	4.00%	18330
	Total		**476569**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	605915	476569
Total Cost of the Estimate	605915	476569

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1201					
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	48800.00	48800.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.11	405.32
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	15000.00	15000.00
10	L.As. 11 KV (Gapless type) with disconector	Set.	1	1100.00	1100.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	11KV H.G.Fuses	Set.	1	1780.00	1780.00
	11KV A.B. Switch	No.	1	8400.00	8400.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
17	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
18	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
19	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
20	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	10007.01	10007.01
21	Sundries	L.S.	1	770.00	770.00
	Cost of material				**127584.39**

1	Transportation on material	4.00%	5103
2	T&P on material cost	1.00%	1276
3	Contigencies on material	0.50%	638
5	Erection cost on material	15.00%	19138
6	Contractor supervision charges on material	5.00%	6379
7	Insurance , Labour & Finance Cost	2.50%	3190
	Service Cost		**35724**
	Sub-Total		**163308**
8	Turnkey Charges	4.00%	6532
	Total		**169840**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	215937	169840
Total Cost of the Estimate	215937	169840

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	81137.00	81137.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.11	405.32
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	15000.00	15000.00
10	L.As. 11 KV (Gapless type) with disconector	Set.	1	1100.00	1100.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	11KV H.G.Fuses	Set.	1	1780.00	1780.00
	11KV A.B. Switch	No.	1	8400.00	8400.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
17	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
18	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
19	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
20	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	11954.61	11954.61
21	Sundries	L.S.	1	770.00	770.00
	Cost of material				**161868.99**

1	Transportation on material	4.00%	6475
2	T&P on material cost	1.00%	1619
3	Contigencies on material	0.50%	809
5	Erection cost on material	15.00%	24280
6	Contractor supervision charges on material	5.00%	8093
7	Insurance , Labour & Finance Cost	2.50%	4047
	Service Cost		**45323**
	Sub-Total		**207192**
8	Turnkey Charges	4.00%	8288
	Total		**215480**
8	Turnkey Charges	4.00%	0
	Total		**0**
8	**Contractor profit on services © 4% i.e. 0.9% of material (C)**	**0.90%**	**1456.82**
	Total Cost (A+B+C)		**167372.54**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	273963	215480
Total Cost of the Estimate	273963	215480

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MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	105000.00	105000.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.11	405.32
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	15325.00	15325.00
10	L.As. 11 KV (Gapless type) with disconector	Set.	1	1100.00	1100.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	11KV H.G.Fuses	Set.	1	1780.00	1780.00
	11KV A.B. Switch	No.	1	8400.00	8400.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
17	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
18	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
19	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
20	Sundries	L.S.	1	770.00	770.00
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	14661.81	14661.81
	Cost of material				**188764.19**

1	Transportation on material	4.00%	7551
2	T&P on material cost	1.00%	1888
3	Contigencies on material	0.50%	944
5	Erection cost on material	15.00%	28315
6	Contractor supervision charges on material	5.00%	9438
7	Insurance , Labour & Finance Cost	2.50%	4719
	Service Cost		**52854**
	Sub-Total		**241618**
8	Turnkey Charges	4.00%	9665
	Total		**251283**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	319483	251283
Total Cost of the Estimate	319483	251283

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MSEDCL

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	186000.00	186000.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	124	50.78	6296.72
4	M.S.Channel 75x40x6 mm	Kg.	100	50.78	5078.00
5	MS angle 50x50x6 mm	Kg.	86	50.78	4367.08
6	M.S. Flats(50 X 10mm)	Kg.	56	47.55	2662.80
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.11	405.32
8	Disc Insulator 11 KV 4500 KG.	No.	3	244.47	733.41
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	24661.00	24661.00
11	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	56.32	901.12
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	11KV H.G.Fuses	Set	1	1780.00	1780.00
16	11KV A.B. Switch	No.	1	8400.00	8400.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	2.3	2596.08	5970.99
21	Painting of Supports & fabricated materials	LS	2	153.70	307.40
22	Sundries	LS	1	770.00	770.00
23	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	23055.81	23055.81
	Minor Fabrication, etc.				
	Cost of material				**297227.82**

1	Transportation on material	4.00%	11889
2	T&P on material cost	1.00%	2972
3	Contigencies on material	0.50%	1486
5	Erection cost on material	15.00%	44584
6	Contractor supervision charges on material	5.00%	14861
7	Insurance , Labour & Finance Cost	2.50%	7431
	Service Cost		**83224**
	Sub-Total		**380452**
8	Turnkey Charges	4.00%	15218
	Total		**395670**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	503058	395670
Total Cost of the Estimate	503058	395670

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MSEDCL

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	186000.00	186000.00
2	RSJ 116x100, 11 m long	No.	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg.	124	50.78	6296.72
4	M.S.Channel 75x40x6 mm	Kg.	100	50.78	5078.00
5	MS angle 50x50x6 mm	Kg.	86	50.78	4367.08
6	M.S. Flats(50 X 10mm)	Kg.	56	47.55	2662.80
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.11	405.32
8	Disc Insulator 11 KV 4500 KG.	No.	3	244.47	733.41
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	L.T.Dist.Boxes 200 KVA with MCCB	No.	1	24661.00	24661.00
11	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	56.32	901.12
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	11KV H.G.Fuses	Set	1	1780.00	1780.00
16	11KV A.B. Switch	No.	1	8400.00	8400.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	2.3	2596.08	5970.99
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
23	DTC Metring with Box, single core L.T. XLPE cable (185 sq.mm., 200 mtr length) and other allied material.	No.	1	23055.81	23055.81
	Minor Fabrication, etc.				
	Cost of material				**301106.12**

1	Transportation on material	4.00%	12044
2	T&P on material cost	1.00%	3011
3	Contigencies on material	0.50%	1506
5	Erection cost on material	15.00%	45166
6	Contractor supervision charges on material	5.00%	15055
7	Insurance , Labour & Finance Cost	2.50%	7528
	Service Cost		**84310**
	Sub-Total		**385416**
8	Turnkey Charges	4.00%	15417
	Total		**400832**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	509622	400832
Total Cost of the Estimate	509622	400832

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MSEDCL

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	445000.00	445000.00
2	RSJ 116x100, 11 m long	No.	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg.	124	50.78	6296.72
4	M.S.Channel 75x40x6 mm	Kg.	100	50.78	5078.00
5	MS angle 50x50x6 mm	Kg.	86	50.78	4367.08
6	M.S. Flats(50 X 10mm)	Kg.	56	47.55	2662.80
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.11	405.32
8	Disc Insulator 11 KV 4500 KG.	No.	3	244.47	733.41
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	6 way feeder pillar with ACB	No.	1	61500.00	61500.00
11	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	56.32	901.12
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	11KV H.G.Fuses	Set	1	1780.00	1780.00
16	11KV A.B. Switch	No.	1	8400.00	8400.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	2.3	2596.08	5970.99
21	Painting of Supports & fabricated materials	LS	2	153.70	307.40
22	Sundries	LS	1	770.00	770.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	30871.41	30871.41
	Minor Fabrication, etc.				
	Cost of material				**604914.42**

1	Transportation on material	4.00%	24197
2	T&P on material cost	1.00%	6049
3	Contigencies on material	0.50%	3025
5	Erection cost on material	15.00%	90737
6	Contractor supervision charges on material	5.00%	30246
7	Insurance , Labour & Finance Cost	2.50%	15123
	Service Cost		**169376**
	Sub-Total		**774290**
8	Turnkey Charges	4.00%	30972
	Total		**805262**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1023818	805262
Total Cost of the Estimate	1023818	805262

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MSEDCL

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	445000.00	445000.00
2	RSJ 116x100, 11 m long	No.	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg.	124	50.78	6296.72
4	M.S.Channel 75x40x6 mm	Kg.	100	50.78	5078.00
5	MS angle 50x50x6 mm	Kg.	86	50.78	4367.08
6	M.S. Flats(50 X 10mm)	Kg.	56	47.55	2662.80
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.11	405.32
8	Disc Insulator 11 KV 4500 KG.	No.	3	244.47	733.41
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	6 way feeder pillar with ACB	No.	1	61500.00	61500.00
11	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	56.32	901.12
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	11KV H.G.Fuses	Set	1	1780.00	1780.00
16	11KV A.B. Switch	No.	1	8400.00	8400.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	2.3	2596.08	5970.99
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	30871.41	30871.41
	Minor Fabrication, etc.				
	Cost of material				**604760.72**

1	Transportation on material	4.00%	24190
2	T&P on material cost	1.00%	6048
3	Contigencies on material	0.50%	3024
5	Erection cost on material	15.00%	90714
6	Contractor supervision charges on material	5.00%	30238
7	Insurance , Labour & Finance Cost	2.50%	15119
	Service Cost		**169333**
	Sub-Total		**774094**
8	Turnkey Charges	4.00%	30964
	Total		**805057**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1023558	805057
Total Cost of the Estimate	1023558	805057

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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	655000.00	655000.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	180	50.78	9140.40
4	M.S.Channel 75x40x6 mm	Kg.	150	50.78	7617.00
5	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
6	M.S. Flats(50 X 10mm)	Kg.	75	47.55	3566.25
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.11	405.32
8	Disc Insulator 11 KV 4500 KG.	No.	6	244.47	1466.82
9	Strain Hardware for 34 Sq.mm AAAC	No.	3	140.00	420.00
10	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
11	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	24	56.32	1351.68
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	11KV H.G.Fuses	Set	1	1780.00	1780.00
	11KV A.B. Switch	No	1	8400.00	8400.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	10.25	2596.08	26609.84
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
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	54564.21	54564.21

	Cost of material		**873741.39**
1	Transportation on material	4.00%	34950
2	T&P on material cost	1.00%	8737
3	Contigencies on material	0.50%	4369
5	Erection cost on material	15.00%	131061
6	Contractor supervision charges on material	5.00%	43687
7	Insurance , Labour & Finance Cost	2.50%	21844
	Service Cost		**244648**
	Sub-Total		**1118389**
8	Turnkey Charges	4.00%	44736
	Total		**1163125**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1478807	1163125
Total Cost of the Estimate	1478807	1163125

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	81137.00	81137.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.11	405.32
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 25/63 KVA with KITKAT	No.	1	13487.00	13487.00
10	L.As. 11 KV (Gapless type) with disconector	Set.	1	1100.00	1100.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	11KV H.G.Fuses	Set.	1	1780.00	1780.00
	11KV A.B. Switch	No.	1	8400.00	8400.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
17	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
18	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
19	Painting/Hardware & support with numbering of pole	L.S.	2	219.57	439.14
20	Sundries	L.S.	1	770.00	770.00
21	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	11954.61	11954.61
	Cost of material				**160575.56**

1	Transportation on material	4.00%	6423
2	T&P on material cost	1.00%	1606
3	Contigencies on material	0.50%	803
5	Erection cost on material	15.00%	24086
6	Contractor supervision charges on material	5.00%	8029
7	Insurance , Labour & Finance Cost	2.50%	4014
	Service Cost		**44961**
	Sub-Total		**205537**
8	Turnkey Charges	4.00%	8221
	Total		**213758**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	271774	213758
Total Cost of the Estimate	271774	213758

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	105000.00	105000.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.11	405.32
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 100 KVA with KITKAT	No.	1	14209.00	14209.00
10	L.As. 11 KV (Gapless type) with disconector	Set.	1	1100.00	1100.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	11KV H.G.Fuses	Set.	1	1780.00	1780.00
	11KV A.B. Switch	No.	1	8400.00	8400.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
17	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
18	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
19	Painting/Hardware & support with numbering of pole	L.S.	2	219.57	439.14
20	Sundries	L.S.	1	770.00	770.00
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	14661.81	14661.81
	Cost of material				**187867.76**

1	Transportation on material	4.00%	7515
2	T&P on material cost	1.00%	1879
3	Contigencies on material	0.50%	939
5	Erection cost on material	15.00%	28180
6	Contractor supervision charges on material	5.00%	9393
7	Insurance , Labour & Finance Cost	2.50%	4697
	Service Cost		**52603**
	Sub-Total		**240471**
8	Turnkey Charges	4.00%	9619
	Total		**250090**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	317966	250090
Total Cost of the Estimate	317966	250090

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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	445000.00	445000.00
2	RSJ 116x100, 9 m long	No.	2	9073.00	18146.00
3	G.I.Channel 100x50x6mm	Kg.	124	64.78	8032.72
4	G.I.Channel 75x40x6mm	Kg.	100	64.78	6478.00
5	G.I.Angle 50x50x6mm	Kg.	86	64.78	5571.08
6	G.I Flat 50x10 mm	Kg.	56	61.55	3446.80
7	11 kV Pin Insulators with G.I. Pins	No.	3	135.11	405.32
8	Disc Insulator 11 KV 4500 KG.	No.	3	244.47	733.41
9	Strain Hardware forWeasel/Squirrel	No.	3	178.40	535.20
10	6 way feeder pillar with ACB	No.	1	61500.00	61500.00
11	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
12	H.T.Stay Set	No.	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	56.32	901.12
14	Earthing Sets H.T	No.	5	335.51	1677.55
15	11KV H.G.Fuses	Set	1	1780.00	1780.00
16	11KV A.B. Switch	No.	1	8400.00	8400.00
17	Danger Board in yard.	No.	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	Concreting ration 1:4:8	Cmt.	2.3	2596.08	5970.99
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
23	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	30871.41	30871.41
	Cost of Material				**605967.92**

1	Transportation on material	4.00%	24239
2	T&P on material cost	1.00%	6060
3	Contigencies on material	0.50%	3030
5	Erection cost on material	15.00%	90895
6	Contractor supervision charges on material	5.00%	30298
7	Insurance , Labour & Finance Cost	2.50%	15149
	Service Cost		**169671**
	Sub-Total		**775639**
8	Turnkey Charges	4.00%	31026
	Total		**806664**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1025601	806664
Total Cost of the Estimate	1025601	806664

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	81137.00	81137.00
2	RSJ 116x100, 11 m long	No	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.11	405.32
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	15000.00	15000.00
10	L.As. 11 KV (Gapless type) with disconector	Set.	1	1100.00	1100.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	11KV H.G.Fuses	Set.	1	1780.00	1780.00
	11KV A.B. Switch	No.	1	8400.00	8400.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
17	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
18	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
19	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
20	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No.	1	11954.61	11954.61
21	Sundries	L.S.	1	770.00	770.00
	Cost of material				**165900.99**

1	Transportation on material	4.00%	6636
2	T&P on material cost	1.00%	1659
3	Contigencies on material	0.50%	830
5	Erection cost on material	15.00%	24885
6	Contractor supervision charges on material	5.00%	8295
7	Insurance , Labour & Finance Cost	2.50%	4148
	Service Cost		**46452**
	Sub-Total		**212353**
8	Turnkey Charges	4.00%	8494
	Total		**220847**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	280787	220847
Total Cost of the Estimate	280787	220847

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Item Code No. 1216					
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	105000.00	105000.00
2	RSJ 116x100, 11 m long	No	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.11	405.32
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	15325.00	15325.00
10	L.As. 11 KV (Gapless type) with disconector	Set.	1	1100.00	1100.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	11KV H.G.Fuses	Set.	1	1780.00	1780.00
	11KV A.B. Switch	No.	1	8400.00	8400.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
17	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
18	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
19	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
20	Sundries	L.S.	1	770.00	770.00
21	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No.	1	14661.81	14661.81
	Cost of material				**192796.19**

1	Transportation on material	4.00%	7712
2	T&P on material cost	1.00%	1928
3	Contigencies on material	0.50%	964
5	Erection cost on material	15.00%	28919
6	Contractor supervision charges on material	5.00%	9640
7	Insurance , Labour & Finance Cost	2.50%	4820
	Service Cost		**53983**
	Sub-Total		**246779**
8	Turnkey Charges	4.00%	9871
	Total		**256650**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	326308	256650
Total Cost of the Estimate	326308	256650

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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	48800.00	48800.00
2	RSJ 116x100, 11 m long	No	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg	80	50.78	4062.40
5	MS angle 50x50x6 mm	Kg	60	50.78	3046.80
6	M.S. Flats(50 X 10mm)	Kg	24	47.55	1141.20
7	11 kV Pin Insulators with G.I. Pins	No	3	135.11	405.32
8	Disc Insulator 11 KV 4500 KG.	No	3	244.47	733.41
9	Strain Hardware forWeasel/Squirrel	Set	3	178.40	535.20
10	L.T.Dist.Boxes 25/63 KVA with MCCB	No	1	15000.00	15000.00
11	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
12	H.T.Stay Set	Set	2	586.66	1173.32
13	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	16	56.32	901.12
14	Earthing Sets H.T	Set	5	335.51	1677.55
15	11KV H.G.Fuses	Set	1	1780.00	1780.00
16	11KV A.B. Switch	Set	1	8400.00	8400.00
17	Danger Board in yard.	No	2	50.00	100.00
18	G.I.Strip (25 X 3 mm)	Kg	40	64.78	2591.20
19	G.I.Barbed Wire `A' type.	Kg.	10	63.01	630.10
20	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No	1	10007.01	10007.01
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
	Cost of material				**130264.33**

1	Transportation on material	4.00%	5211
2	T&P on material cost	1.00%	1303
3	Contigencies on material	0.50%	651
5	Erection cost on material	15.00%	19540
6	Contractor supervision charges on material	5.00%	6513
7	Insurance , Labour & Finance Cost	2.50%	3257
	Service Cost		**36474**
	Sub-Total		**166738**
8	Turnkey Charges	4.00%	6670
	Total		**173408**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	220472	173408
Total Cost of the Estimate	220472	173408

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

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	48800.00	48800.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg	44	50.78	2234.32
5	MS angle 50x50x6 mm	Kg	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	No	3	135.11	405.32
8	L.T.Dist.Boxes 25/63 KVA with KITKAT	No	1	13487.00	13487.00
9	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
10	H.T.Stay Set	Set	4	586.66	2346.64
11	Earthing Sets H.T	Set	5	335.51	1677.55
12	11KV H.G.Fuses	Set	1	1780.00	1780.00
13	11KV A.B. Switch	Set	1	8400.00	8400.00
14	Danger Board in yard.	No	2	50.00	100.00
15	Painting/Hardware & support with numbering of pole	LS	1	219.57	219.57
16	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No	1	10007.01	10007.01
17	Sundries	LS	1	770.00	770.00
	Cost of Material				**116825.37**

1	Transportation on material	4.00%	4673
2	T&P on material cost	1.00%	1168
3	Contigencies on material	0.50%	584
5	Erection cost on material	15.00%	17524
6	Contractor supervision charges on material	5.00%	5841
7	Insurance , Labour & Finance Cost	2.50%	2921
	Service Cost		**32711**
	Sub-Total		**149536**
8	Turnkey Charges	4.00%	5981
	Total		**155518**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	197727	155518
Total Cost of the Estimate	197727	155518

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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	81137.00	81137.00
2	RSJ 116x100, 11 m long	No	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg	44	50.78	2234.32
5	MS angle 50x50x6 mm	Kg	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	No	3	135.11	405.32
8	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14209.00	14209.00
9	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
10	H.T.Stay Set	Set	4	586.66	2346.64
11	Earthing Sets H.T	Set	5	335.51	1677.55
12	11KV H.G.Fuses	Set	1	1780.00	1780.00
13	11KV A.B. Switch	Set	1	8400.00	8400.00
14	Danger Board in yard.	No	2	50.00	100.00
15	Painting/Hardware & support with numbering of pole	LS	1	219.57	219.57
16	DTC Metring with Box, single core L.T. XLPE cable (35 sq.mm., 120 mtr length) and other allied material.	No	1	11954.61	11954.61
17	Sundries	LS	1	770.00	770.00
	Cost of Material				**155863.97**

1	Transportation on material	4.00%	6235
2	T&P on material cost	1.00%	1559
3	Contigencies on material	0.50%	779
5	Erection cost on material	15.00%	23380
6	Contractor supervision charges on material	5.00%	7793
7	Insurance , Labour & Finance Cost	2.50%	3897
	Service Cost		**43642**
	Sub-Total		**199506**
8	Turnkey Charges	4.00%	7980
	Total		**207486**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	263800	207486
Total Cost of the Estimate	263800	207486

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	105000.00	105000.00
2	RSJ 116x100, 11 m long	No	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	Kg	44	50.78	2234.32
5	MS angle 50x50x6 mm	Kg	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	No	3	135.11	405.32
8	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14209.00	14209.00
9	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
10	H.T.Stay Set	Set	4	586.66	2346.64
11	Earthing Sets H.T	Set	5	335.51	1677.55
12	11KV H.G.Fuses	Set	1	1780.00	1780.00
13	11KV A.B. Switch	Set	1	8400.00	8400.00
14	Danger Board in yard.	No	2	50.00	100.00
15	Painting/Hardware & support with numbering of pole	LS	1	219.57	219.57
16	DTC Metring with Box, single core L.T. XLPE cable (70 sq.mm., 120 mtr length) and other allied material.	No	1	14661.81	14661.81
17	Sundries	LS	1	770.00	770.00
	Cost of Material				**182434.17**

1	Transportation on material	4.00%	7297
2	T&P on material cost	1.00%	1824
3	Contigencies on material	0.50%	912
5	Erection cost on material	15.00%	27365
6	Contractor supervision charges on material	5.00%	9122
7	Insurance , Labour & Finance Cost	2.50%	4561
	Service Cost		**51082**
	Sub-Total		**233516**
8	Turnkey Charges	4.00%	9341
	Total		**242856**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	308770	242856
Total Cost of the Estimate	308770	242856

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	655000.00	655000.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso + 1 Br	No.	1	390000.00	390000.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	636.67	9550.05
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1168.49	2336.98
5	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
6	Earthing with GI pipe	L.S.	4	268.81	1075.24
7	Earthing with GI plate	L.S.	4	1570.04	6280.17
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	54564.21	54564.21
9	Sundries	L.S.	1	770.00	770.00
	Cost of Material				**1191576.66**

1	Transportation on material	4.00%			47663
2	T&P on material cost	1.00%			11916
3	Contigencies on material	0.50%			5958
5	Erection cost on material	15.00%			178736
6	Contractor supervision charges on material	5.00%			59579
7	Insurance , Labour & Finance Cost	2.50%			29789
	Service Cost				**333641**
	Sub-Total				**1525218**
8	Turnkey Charges	4.00%			61009
	Total				**1586227**
9	Civil Works 20 Sq. Mtr	LS	1	271915.00	271915
	Total Cost of Estimate				**1858142**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2016743	1586227
Civil Works 20 Sq. Mtr	271915	271915
Total Cost of the Estimate	2288658	1858142

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Maharashtra State Electricity Distribution Co. Ltd.
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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	655000.00	1310000.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso +	No.	1	390000.00	390000.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	30	636.67	19100.10
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	4	1168.49	4673.96
5	8 way feeder pillar with ACB	No.	2	72000.00	144000.00
6	Earthing with GI pipe	L.S.	8	268.81	2150.49
7	Earthing with GI plate	L.S.	8	1570.04	12560.35
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	54564.21	109128.42
9	Sundries	L.S.	2	770.00	1540.00
	Cost of Material				**1993153.31**

1	Transportation on material	4.00%			79726
2	T&P on material cost	1.00%			19932
3	Contigencies on material	0.50%			9966
5	Erection cost on material	15.00%			298973
6	Contractor supervision charges on material	5.00%			99658
7	Insurance , Labour & Finance Cost	2.50%			49829
	Service Cost				**558083**
	Sub-Total				**2551236**
8	Turnkey Charges	4.00%			102049
	Total				**2653286**
9	Civil Works 20 Sq. Mtr	LS	2	271915.00	543830
	Total Cost of Estimate				**3197116**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3373412	2653286
Civil Works 20 Sq. Mtr	543830	543830
Total Cost of the Estimate	3917242	3197116

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	655000.00	655000.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso +	No.	1	390000.00	390000.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	636.67	9550.05
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1168.49	2336.98
5	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
6	Earthing with GI pipe	L.S.	4	268.81	1075.24
7	Earthing with GI plate	L.S.	4	1570.04	6280.17
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	54564.21	54564.21
9	Sundries	L.S.	1	770.00	770.00
	Cost of Material				**1191576.66**
1	Transportation on material	4.00%			47663
2	T&P on material cost	1.00%			11916
3	Contigencies on material	0.50%			5958
5	Erection cost on material	15.00%			178736
6	Contractor supervision charges on material	5.00%			59579
7	Insurance , Labour & Finance Cost	2.50%			29789
	Service Cost				**333641**
	Sub-Total				**1525218**
8	Turnkey Charges	4.00%			61009
	Total				**1586227**
9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	22841.00	22841
	Total Cost of Estimate				**1609068**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2016743	1586227
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	22841	22841
Total Cost of the Estimate	2039584	1609068

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(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	655000.00	1310000.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso +	No.	1	530000.00	530000.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	30	636.67	19100.10
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	4	1168.49	4673.96
5	8 way feeder pillar with ACB	No.	2	72000.00	144000.00
6	Earthing with GI pipe	L.S.	8	268.81	2150.49
7	Earthing with GI plate	L.S.	8	1570.04	12560.35
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	54564.21	109128.42
9	Sundries	L.S.	2	770.00	1540.00
	Cost of Material				**2133153.31**
1	Transportation on material	4.00%			85326
2	T&P on material cost	1.00%			21332
3	Contigencies on material	0.50%			10666
5	Erection cost on material	15.00%			319973
6	Contractor supervision charges on material	5.00%			106658
7	Insurance , Labour & Finance Cost	2.50%			53329
	Service Cost				**597283**
	Sub-Total				**2730436**
8	Turnkey Charges	4.00%			109217
	Total				**2839654**
9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	2	22841.00	45682
	Total Cost of Estimate				**2885336**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3610362	2839654
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	45682	45682
Total Cost of the Estimate	3656044	2885336

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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	445000.00	445000.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso +	No.	1	390000.00	390000.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	636.67	9550.05
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1168.49	2336.98
5	6 way feeder pillar with ACB	No.	1	61500.00	61500.00
6	Earthing with GI pipe	L.S.	4	268.81	1075.24
7	Earthing with GI plate	L.S.	4	1570.04	6280.17
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	1	30871.41	30871.41
9	Sundries	L.S.	1	770.00	770.00
	Cost of Material				**947383.86**
1	Transportation on material	4.00%			37895
2	T&P on material cost	1.00%			9474
3	Contigencies on material	0.50%			4737
5	Erection cost on material	15.00%			142108
6	Contractor supervision charges on material	5.00%			47369
7	Insurance , Labour & Finance Cost	2.50%			23685
	Service Cost				**265267**
	Sub-Total				**1212651**
8	Turnkey Charges	4.00%			48506
	Total				**1261157**
9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	2	22841.00	45682
	Total Cost of Estimate				**1306839**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1603447	1261157
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	45682	45682
Total Cost of the Estimate	1649129	1306839

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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	445000.00	890000.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso +	No.	1	530000.00	530000.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	30	636.67	19100.10
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	4	1168.49	4673.96
5	6 way feeder pillar with ACB	No.	2	61500.00	123000.00
6	Earthing with GI pipe	L.S.	8	268.81	2150.49
7	Earthing with GI plate	L.S.	8	1570.04	12560.35
8	DTC Metring with Box, single core L.T. XLPE cable (300 sq.mm., 280 mtr length) and other allied material.	No.	2	30871.41	61742.82
9	Sundries	L.S.	2	770.00	1540.00
	Cost of Material				**1644767.71**
1	Transportation on material	4.00%			65791
2	T&P on material cost	1.00%			16448
3	Contigencies on material	0.50%			8224
5	Erection cost on material	15.00%			246715
6	Contractor supervision charges on material	5.00%			82238
7	Insurance , Labour & Finance Cost	2.50%			41119
	Service Cost				**460535**
	Sub-Total				**2105303**
8	Turnkey Charges	4.00%			84212
	Total				**2189515**
9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	2	22841.00	45682
	Total Cost of Estimate				**2235197**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2783769	2189515
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	45682	45682
Total Cost of the Estimate	2829451	2235197

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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	445000.00	445000.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso +	No.	1	390000.00	390000.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	636.67	9550.05
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1168.49	2336.98
5	6 way feeder pillar with ACB	No.	1	61500.00	61500.00
6	Earthing with GI pipe	L.S.	4	268.81	1075.24
7	Earthing with GI plate	L.S.	4	1570.04	6280.17
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	30871.41	30871.41
9	Sundries	L.S.	1	770.00	770.00
	Cost of Material				**947383.86**
1	Transportation on material	4.00%			37895
2	T&P on material cost	1.00%			9474
3	Contigencies on material	0.50%			4737
5	Erection cost on material	15.00%			142108
6	Contractor supervision charges on material	5.00%			47369
7	Insurance , Labour & Finance Cost	2.50%			23685
	Service Cost				**265267**
	Sub-Total				**1212651**
8	Turnkey Charges	4.00%			48506
	Total				**1261157**
9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	22841.00	22841
	Total Cost of Estimate				**1283998**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1603447	1261157
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	22841	22841
Total Cost of the Estimate	1626288	1283998

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
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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	655000.00	655000.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso +	No.	1	390000.00	390000.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	636.67	9550.05
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1168.49	2336.98
5	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
6	Earthing with GI pipe	L.S.	4	268.81	1075.24
7	Earthing with GI plate	L.S.	4	1570.04	6280.17
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	54564.21	54564.21
9	Sundries	L.S.	1	770.00	770.00
	Cost of Material				**1191576.66**
1	Transportation on material	4.00%			47663
2	T&P on material cost	1.00%			11916
3	Contigencies on material	0.50%			5958
5	Erection cost on material	15.00%			178736
6	Contractor supervision charges on material	5.00%			59579
7	Insurance , Labour & Finance Cost	2.50%			29789
	Service Cost				**333641**
	Sub-Total				**1525218**
8	Turnkey Charges	4.00%			61009
	Total				**1586227**
9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	22841.00	22841
	Total Cost of Estimate				**1609068**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2016743	1586227
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	22841	22841
Total Cost of the Estimate	2039584	1609068

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	982720.00	982720.00
2	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso +	No.	1	390000.00	390000.00
3	XLPE Cable 11 KV, 3 C / 95 mm sq.	Rmt	15	636.67	9550.05
4	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No.	2	1168.49	2336.98
5	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
6	Earthing with GI pipe	L.S.	4	268.81	1075.24
7	Earthing with GI plate	L.S.	4	1570.04	6280.17
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	78257.01	78257.01
9	Sundries	L.S.	1	770.00	770.00
	Cost of Material				**1542989.46**
1	Transportation on material	4.00%			61720
2	T&P on material cost	1.00%			15430
3	Contigencies on material	0.50%			7715
5	Erection cost on material	15.00%			231448
6	Contractor supervision charges on material	5.00%			77149
7	Insurance , Labour & Finance Cost	2.50%			38575
	Service Cost				**432037**
	Sub-Total				**1975027**
8	Turnkey Charges	4.00%			79001
	Total				**2054028**
9	Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	L.S.	1	22841.00	22841
	Total Cost of Estimate				**2076869**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2611510	2054028
Civil Works - Foundation Structure for Feeder Pillar, RMU & Transformer	22841	22841
Total Cost of the Estimate	2634351	2076869

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

Item Code No. 1301					
Cost Data for Augumentation of Pole mounted Distribution Transformer Sub-station					
Sr.No	**Description of Material**	**Unit**	**Qty.**	**RT/UNIT(RS)**	**Amount (Rs.)**
1	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
2	L.T.Dist.Boxes 100 KVA with MCCB	No.	1	15325.00	15325.00
3	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	25	170.70	4267.50
4	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	10	286.71	2867.10
5	Sundries	no	1	770.00	770.00
	Cost of material				**128229.60**

1	Transportation on material	4.00%	5129
2	T&P on material cost	1.00%	1282
3	Contigencies on material	0.50%	641
5	Erection cost on material	15.00%	19234
6	Contractor supervision charges on material	5.00%	6411
7	Insurance , Labour & Finance Cost	2.50%	3206
	Service Cost		**35904**
	Sub-Total		**164134**
8	Turnkey Charges	4.00%	6565
	Total		**170699**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	217029	170699
Total Cost of the Estimate	217029	170699

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	186000.00	186000.00
2	L.T.Dist.Boxes 200 KVA with MCCB	No.	1.000	24661.00	24661.00
3	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25.00	286.71	7167.75
4	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10.00	558.30	5583.00
5	Sundries	no	1.00	770.00	770.00

	Cost of material		**224181.75**
1	Transportation on material	4.00%	8967
2	T&P on material cost	1.00%	2242
3	Contigencies on material	0.50%	1121
5	Erection cost on material	15.00%	33627
6	Contractor supervision charges on material	5.00%	11209
7	Insurance , Labour & Finance Cost	2.50%	5605
	Service Cost		**62771**
	Sub-Total		**286953**
8	Turnkey Charges	4.00%	11478
	Total		**298431**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	379428	298431
Total Cost of the Estimate	379428	298431

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CIN: U40109MH2005SGC153645

Item Code No. 1303					
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	445000.00	445000.00
2	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	659.26	29666.70
4	Sundries	LS	1	770.00	770.00
	Cost of Material				**547436.70**
1	Transportation on material	4.00%			21897
2	T&P on material cost	1.00%			5474
3	Contigencies on material	0.50%			2737
5	Erection cost on material	15.00%			82116
6	Contractor supervision charges on material	5.00%			27372
7	Insurance , Labour & Finance Cost	2.50%			13686
	Service Cost				**153282**
	Sub-Total				**700719**
8	Turnkey Charges	4.00%			28029
	Total				**728748**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	926537	728748
Total Cost of the Estimate	926537	728748

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	445000.00	445000.00
2	6 way feeder pillar with ACB	No.	1	61500.00	61500.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	659.26	29666.70
4	Sundries	LS	1	770.00	770.00
	Cost of Material				**536936.70**
1	Transportation on material	4.00%			21477
2	T&P on material cost	1.00%			5369
3	Contigencies on material	0.50%			2685
5	Erection cost on material	15.00%			80541
6	Contractor supervision charges on material	5.00%			26847
7	Insurance , Labour & Finance Cost	2.50%			13423
	Service Cost				**150342**
	Sub-Total				**687279**
8	Turnkey Charges	4.00%			27491
	Total				**714770**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	908765	714770
Total Cost of the Estimate	908765	714770

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(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1305					
Cost Data for Augumentation 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	655000.00	655000.00
2	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	659.26	29666.70
4	Sundries	LS	1	770.00	770.00
	Cost of Material				**757436.70**
1	Transportation on material	4.00%			30297
2	T&P on material cost	1.00%			7574
3	Contigencies on material	0.50%			3787
5	Erection cost on material	15.00%			113616
6	Contractor supervision charges on material	5.00%			37872
7	Insurance , Labour & Finance Cost	2.50%			18936
	Service Cost				**212082**
	Sub-Total				**969519**
8	Turnkey Charges	4.00%			38781
	Total				**1008300**
9	Concreting ration 1:4:8		10.25	2596.08	26610
	Total Cost of Estimate				**1034910**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1281962	1008300
Concreting ration 1:4:8	26610	26610
Total Cost of the Estimate	1308571	1034910

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1306					
Cost Data for Augumentation 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	655000.00	655000.00
2	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
3	L.T. XLPE cable 3.5 Core 300 mm2	Rmt	45	659.26	29666.70
4	Sundries	LS	1	770.00	770.00
	Cost of Material				**757436.70**
1	Transportation on material	4.00%			30297
2	T&P on material cost	1.00%			7574
3	Contigencies on material	0.50%			3787
5	Erection cost on material	15.00%			113616
6	Contractor supervision charges on material	5.00%			37872
7	Insurance , Labour & Finance Cost	2.50%			18936
	Service Cost				**212082**
	Sub-Total				**969519**
8	Turnkey Charges	4.00%			38781
	Total				**1008300**
9	Concreting ration 1:4:8		10.25	2596.08	26610
	Total Cost of Estimate				**1034910**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1281962	1008300
Concreting ration 1:4:8	26610	26610
Total Cost of the Estimate	1308571	1034910

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(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1307					
Cost Data for Augumentation 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 Rs.**
1	Dist. Transformer 100 KVA, 11/0.43 kv	No	1	105000.00	105000.00
2	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14209.00	14209.00
3	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
4	11KV A.B. Switch	Set	1	8400.00	8400.00
5	Danger Board in yard.	No	2	50.00	100.00
6	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
7	G.I.Barbed Wire `A' type.	Kg.	150	63.01	9451.50
8	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	25	170.70	4267.50
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	10	286.71	2867.10
10	Painting/Hardware & support with numbering of pole	No	1	219.57	219.57
11	Sundries	LS	1	770.00	770.00
	Cost of material				**147791.42**

1	Transportation on material	4.00%	5912
2	T&P on material cost	1.00%	1478
3	Contigencies on material	0.50%	739
5	Erection cost on material	15.00%	22169
6	Contractor supervision charges on material	5.00%	7390
7	Insurance , Labour & Finance Cost	2.50%	3695
	Service Cost		**41382**
	Sub-Total		**189173**
8	Turnkey Charges	4.00%	7567
	Total		**196740**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	250137	196740
Total Cost of the Estimate	250137	196740

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Item Code No. 1308					
Cost Data for Augumentation 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 Rs.**
1	Dist. Transformer 200 KVA, 11/0.43 kv	No	1	186000.00	186000.00
2	L.T.Dist.Boxes 200 KVA with KitKat	No	1	18479.00	18479.00
3	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
4	11KV A.B. Switch	Set	1	8400.00	8400.00
5	Danger Board in yard.	No	2	50.00	100.00
6	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
7	G.I.Barbed Wire `A' type.	Kg.	150	63.01	9451.50
8	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	25	286.71	7167.75
9	L.T. XLPE cable 3.5 Core 240 mm2	Rmt	10	558.30	5583.00
10	Painting/Hardware & support with numbering of pole	No	1	219.57	219.57
11	Sundries	LS	1	770.00	770.00
	Cost of material				**238677.57**

1	Transportation on material	4.00%	9547
2	T&P on material cost	1.00%	2387
3	Contigencies on material	0.50%	1193
5	Erection cost on material	15.00%	35802
6	Contractor supervision charges on material	5.00%	11934
7	Insurance , Labour & Finance Cost	2.50%	5967
	Service Cost		**66830**
	Sub-Total		**305507**
8	Turnkey Charges	4.00%	12220
	Total		**317728**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	403962	317728
Total Cost of the Estimate	403962	317728

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Item Code No. 1309					
Cost Data for Augumentation 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	655000.00	655000.00
2	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
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	54564.21	54564.21
4	Sundries	L.S.	1	770.00	770.00
	Cost of Material				**782334.21**
1	Transportation on material	4.00%			31293
2	T&P on material cost	1.00%			7823
3	Contigencies on material	0.50%			3912
5	Erection cost on material	15.00%			117350
6	Contractor supervision charges on material	5.00%			39117
7	Insurance , Labour & Finance Cost	2.50%			19558
	Service Cost				**219054**
	Sub-Total				**1001388**
8	Turnkey Charges	4.00%			40056
	Total				**1041443**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1324101	1041443
Total Cost of the Estimate	1324101	1041443

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Item Code No. 1310					
Cost Data for Augumentation 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	982720.00	982720.00
2	8 way feeder pillar with ACB	No.	1	72000.00	72000.00
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	78257.01	78257.01
4	Sundries	L.S.	1	770.00	770.00
	Cost of Material				**1133747.01**
1	Transportation on material	4.00%			45350
2	T&P on material cost	1.00%			11337
3	Contigencies on material	0.50%			5669
5	Erection cost on material	15.00%			170062
6	Contractor supervision charges on material	5.00%			56687
7	Insurance , Labour & Finance Cost	2.50%			28344
	Service Cost				**317449**
	Sub-Total				**1451196**
8	Turnkey Charges	4.00%			58048
	Total				**1509244**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1918867	1509244
Total Cost of the Estimate	1918867	1509244

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

Item Code No. 1401					
L.T. LINE 3 ph 4 W. -WIND PRESSURE ZONE - With ANT for phase & GNAT 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	1800.00	36000.00
2	AAC Ant	Rmt	3200	23.47	75104.00
3	AAC Gnat	Rmt	1100	12.22	13442.00
4	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
5	L.T.Shackle Insulator	No	72	9.99	719.28
6	L.T.Shackle hardware	Pair	96	34.62	3323.81
7	Jointing Sleeves for AAC	No	4	32.03	128.12
8	Aluminium Bobbins for neutral	No.	20	32.03	640.50
9	PG Clamp	No	6	26.50	159.01
10	Earthing Sets L.T.	No	5	162.57	812.85
11	L.T. Stay sets	No	8	462.84	3702.72
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	56.32	4055.04
13	Stay Insulators	No	8	9.75	78.00
14	Binding Wire	Kg.	1.5	70.45	105.68
15	Binding Tape	Kg	1.5	42.70	64.05
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
17	Concreting ration 1:4:8	Cmt	2.4	2596.08	6230.60
18	L.T.Spacers	No	57	103.64	5907.48
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.11	3651.58
b)	GNAT To GNAT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**166397.21**

1	Transportation on material	4.00%	6656
2	T&P on material cost	1.00%	1664
3	Contigencies on material	0.50%	832
5	Erection cost on material	15.00%	24960
6	Contractor supervision charges on material	5.00%	8320
7	Insurance , Labour & Finance Cost	2.50%	4160
	Service Cost		**46591**
	Sub-Total		**212988**
8	Turnkey Charges	4.00%	8520
	Total		**221508**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	281627	221508
Total Cost of the Estimate	281627	221508

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

Item Code No. 1401A					
L.T. LINE 3 ph 4 W. -WIND PRESSURE ZONE - With ANT for phase & GNAT 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	1500.00	30000.00
2	AAC Ant	Rmt	3200	23.47	75104.00
3	AAC Gnat	Rmt	1100	12.22	13442.00
4	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
5	L.T.Shackle Insulator	No	72	9.99	719.28
6	L.T.Shackle hardware	Pair	96	34.62	3323.81
7	Aluminium Bobbins for neutral	No.	20	32.03	640.50
8	Jointing Sleeves for AAC	No	4	32.03	128.12
9	PG Clamp	No	6	26.50	159.01
10	Earthing Sets L.T.	No	5	162.57	812.85
11	L.T. Stay sets	No	8	462.84	3702.72
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	56.32	4055.04
13	Stay Insulators	No	8	9.75	78.00
14	Binding Wire	Kg.	1.5	70.45	105.68
15	Binding Tape	Kg	1.5	42.70	64.05
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
17	Concreting ration 1:4:8	Cmt	2.4	2596.08	6230.60
18	L.T.Spacers	No	57	103.64	5907.48
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.11	3651.58
b)	GNAT To GNAT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**160397.21**

1	Transportation on material	4.00%	6416
2	T&P on material cost	1.00%	1604
3	Contigencies on material	0.50%	802
5	Erection cost on material	15.00%	24060
6	Contractor supervision charges on material	5.00%	8020
7	Insurance , Labour & Finance Cost	2.50%	4010
	Service Cost		**44911**
	Sub-Total		**205308**
8	Turnkey Charges	4.00%	8212
	Total		**213521**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	271472	213521
Total Cost of the Estimate	271472	213521

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1402					
L.T. LINE 3 ph 4 W. -With GNAT 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.	16	1800.00	28800.00
2	AAC Gnat	Rmt	4300	12.22	52546.00
3	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
4	L.T.Shackle Insulator	No	60	9.99	599.40
5	Aluminium Bobbins for neutral	No.	20	32.03	640.50
6	L.T.Shackle hardware	Pair	80	34.62	2769.84
7	Jointing Sleeves for AAC	No	4	32.03	128.12
8	PG Clamp	No	6	26.50	159.01
9	Earthing Sets L.T.	No	5	162.57	812.85
10	L.T. Stay sets	No	8	462.84	3702.72
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	56.32	4055.04
12	Stay Insulators	No	8	9.75	78.00
13	Binding Wire	Kg.	1.5	70.45	105.68
14	Binding Tape	Kg	1.5	42.70	64.05
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
16	Concreting ration 1:4:8	Ls	1	2596.08	2596.08
17	L.T.Spacers	No	45	103.64	4663.80
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	56	114.11	6390.27

	Cost of material		**117645.16**
1	Transportation on material	4.00%	4706
2	T&P on material cost	1.00%	1176
3	Contigencies on material	0.50%	588
5	Erection cost on material	15.00%	17647
6	Contractor supervision charges on material	5.00%	5882
7	Insurance , Labour & Finance Cost	2.50%	2941
	Service Cost		**32941**
	Sub-Total		**150586**
8	Turnkey Charges	4.00%	6023
	Total		**156609**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	199114	156609
Total Cost of the Estimate	199114	156609

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CIN: U40109MH2005SGC153645

Item Code No. 1402A					
L.T. LINE 3 ph 4 W. -With GNAT 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	1500.00	24000.00
2	AAC Gnat	Rmt	4300	12.22	52546.00
3	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
4	L.T.Shackle Insulator	No	60	9.99	599.40
5	Aluminium Bobbins for neutral	No.	20	32.03	640.50
6	L.T.Shackle hardware	Pair	80	34.62	2769.84
7	Jointing Sleeves for AAC	No	4	32.03	128.12
8	PG Clamp	No	6	26.50	159.01
9	Earthing Sets L.T.	No	5	162.57	812.85
10	L.T. Stay sets	No	8	462.84	3702.72
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	56.32	4055.04
12	Stay Insulators	No	8	9.75	78.00
13	Binding Wire	Kg.	1.5	70.45	105.68
14	Binding Tape	Kg	1.5	42.70	64.05
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
16	Concreting ration 1:4:8	Ls	1	2596.08	2596.08
17	L.T.Spacers	No	45	103.64	4663.80
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	56	114.11	6390.27

	Cost of material		**112845.16**
1	Transportation on material	4.00%	4514
2	T&P on material cost	1.00%	1128
3	Contigencies on material	0.50%	564
5	Erection cost on material	15.00%	16927
6	Contractor supervision charges on material	5.00%	5642
7	Insurance , Labour & Finance Cost	2.50%	2821
	Service Cost		**31597**
	Sub-Total		**144442**
8	Turnkey Charges	4.00%	5778
	Total		**150219**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	190990	150219
Total Cost of the Estimate	190990	150219

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Item Code No.1403					
Cost data for laying of 1 Km. L.T. XLPE Armoured Cable for Size 70 mm2					
Sr.No.	**Particulars**	**Unit**	**Qty.**	**RT/UNIT(RS)**	**Amount**
1	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt	1000.00	170.70	170700.00
2	R.C.C. Pipe 150 mm 2 M	No.	30.00	520.00	15600.00
3	L.T. jointing kits for 70 Sqmm	No.	10.00	447.27	4472.70
4	Misc. (Bricks,sand,tremination kit and etc.)	LS	1.00	24153.00	24153.00

	Cost of material		**214925.70**
1	Transportation on material	4.00%	8597
2	T&P on material cost	1.00%	2149
3	Contigencies on material	0.50%	1075
5	Erection cost on material	15.00%	32239
6	Contractor supervision charges on material	5.00%	10746
7	Insurance , Labour & Finance Cost	2.50%	5373
	Service Cost		**60179**
	Sub-Total		**275105**
8	Turnkey Charges	4.00%	11004
	Total		**286109**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	363762	286109
Total Cost of the Estimate	363762	286109

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CIN: U40109MH2005SGC153645

Item Code No. 1404					
Cost data for laying of 1 Km. L.T.XLPE Cable for Size 95 Sqmm					
Sr.No.	**Particulars**	**Unit**	**Qty.**	**RT/UNIT(RS)**	**Amount**
1	LT XLPE Armoured Cable 3 1/2C X 95 Sq mm	Rmt	1000.00	239.08	239080.00
2	R.C.C. Pipe 150 mm 2 M	No.	30.00	520.00	15600.00
3	L.T. jointing kits for 95 Sqmm	No	10.00	503.18	5031.80
4	Misc. (Bricks,sand,tremination kit and etc.)	LS	1.00	24153.00	24153.00

	Cost of material		**283864.80**
1	Transportation on material	4.00%	11355
2	T&P on material cost	1.00%	2839
3	Contigencies on material	0.50%	1419
5	Erection cost on material	15.00%	42580
6	Contractor supervision charges on material	5.00%	14193
7	Insurance , Labour & Finance Cost	2.50%	7097
	Service Cost		**79482**
	Sub-Total		**363347**
8	Turnkey Charges	4.00%	14534
	Total		**377881**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	480441	377881
Total Cost of the Estimate	480441	377881

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No.1405					
Cost data for laying of 1 Km. L.T.XLPE Cable for Size 120 mm2.					
Sr.No.	**Particulars**	**Unit**	**Qty.**	**RT/UNIT(RS)**	**Amount**
1	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt	1000.00	286.71	286710.00
2	R.C.C. Pipe 150 mm 2 M	No.	30.00	520.00	15600.00
3	L.T. jointing kits for 120 Sqmm	No	10.00	559.09	5590.90
4	Misc. (Bricks,sand,tremination kit and etc.)	LS	1.00	24153.00	24153.00

	Cost of material		**332053.90**
1	Transportation on material	4.00%	13282
2	T&P on material cost	1.00%	3321
3	Contigencies on material	0.50%	1660
5	Erection cost on material	15.00%	49808
6	Contractor supervision charges on material	5.00%	16603
7	Insurance , Labour & Finance Cost	2.50%	8301
	Service Cost		**92975**
	Sub-Total		**425029**
8	Turnkey Charges	4.00%	17001
	Total		**442030**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	562001	442030
Total Cost of the Estimate	562001	442030

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(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No.1406					
Cost data for laying of 1 Km. L.T.XLPE Armoured Cable for Size 185 mm2.					
Sr.No.	**Particulars**	**Unit**	**Qty.**	**RT/UNIT(RS)**	**Amount**
1	L.T. XLPE Armoured 3.5 Core cable185 sq.mm.	Rmt	1000.00	424.97	424970.00
2	R.C.C. Pipe 150 mm 2 M	No.	30.00	520.00	15600.00
3	LT St.through joints for 185 sqmm	No	10.00	863.64	8636.40
4	Misc. (Bricks,sand,tremination kit and etc.)	LS	1.00	24153.00	24153.00

	Cost of material		**473359.40**
1	Transportation on material	4.00%	18934
2	T&P on material cost	1.00%	4734
3	Contigencies on material	0.50%	2367
5	Erection cost on material	15.00%	71004
6	Contractor supervision charges on material	5.00%	23668
7	Insurance , Labour & Finance Cost	2.50%	11834
	Service Cost		**132541**
	Sub-Total		**605900**
8	Turnkey Charges	4.00%	24236
	Total		**630136**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	801161	630136
Total Cost of the Estimate	801161	630136

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Item Code No.1407					
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 mm2	Rmt	1000	659.26	659260.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**699013.00**
1	Transportation on material	4.00%			27961
2	T&P on material cost	1.00%			6990
3	Contigencies on material	0.50%			3495
5	Erection cost on material	15.00%			104852
6	Contractor supervision charges on material	5.00%			34951
7	Insurance , Labour & Finance Cost	2.50%			17475
	Service Cost				**195724**
	Sub-Total				**894737**
8	Turnkey Charges	4.00%			35789
	Total				**930526**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1183080	930526
Total Cost of the Estimate	1183080	930526

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Item Code No.1408					
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 mm2	Rmt	1000	558.30	558300.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**598053.00**
1	Transportation on material	4.00%			23922
2	T&P on material cost	1.00%			5981
3	Contigencies on material	0.50%			2990
5	Erection cost on material	15.00%			89708
6	Contractor supervision charges on material	5.00%			29903
7	Insurance , Labour & Finance Cost	2.50%			14951
	Service Cost				**167455**
	Sub-Total				**765508**
8	Turnkey Charges	4.00%			30620
	Total				**796128**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1012205	796128
Total Cost of the Estimate	1012205	796128

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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	75.89	75890.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**115643.00**
1	Transportation on material	4.00%			4626
2	T&P on material cost	1.00%			1156
3	Contigencies on material	0.50%			578
5	Erection cost on material	15.00%			17346
6	Contractor supervision charges on material	5.00%			5782
7	Insurance , Labour & Finance Cost	2.50%			2891
	Service Cost				**32380**
	Sub-Total				**148023**
8	Turnkey Charges	4.00%			5921
	Total				**153944**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	195726	153944
Total Cost of the Estimate	195726	153944

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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	110.78	110780.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**150533.00**
1	Transportation on material	4.00%			6021
2	T&P on material cost	1.00%			1505
3	Contigencies on material	0.50%			753
5	Erection cost on material	15.00%			22580
6	Contractor supervision charges on material	5.00%			7527
7	Insurance , Labour & Finance Cost	2.50%			3763
	Service Cost				**42149**
	Sub-Total				**192682**
8	Turnkey Charges	4.00%			7707
	Total				**200390**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	254777	200390
Total Cost of the Estimate	254777	200390

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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	145.97	145970.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**185723.00**
1	Transportation on material	4.00%			7429
2	T&P on material cost	1.00%			1857
3	Contigencies on material	0.50%			929
5	Erection cost on material	15.00%			27858
6	Contractor supervision charges on material	5.00%			9286
7	Insurance , Labour & Finance Cost	2.50%			4643
	Service Cost				**52002**
	Sub-Total				**237725**
8	Turnkey Charges	4.00%			9509
	Total				**247234**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	314336	247234
Total Cost of the Estimate	314336	247234

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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 cable120 sq.mm.	Rmt	1000	286.71	286710.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**326463.00**
1	Transportation on material	4.00%			13059
2	T&P on material cost	1.00%			3265
3	Contigencies on material	0.50%			1632
5	Erection cost on material	15.00%			48969
6	Contractor supervision charges on material	5.00%			16323
7	Insurance , Labour & Finance Cost	2.50%			8162
	Service Cost				**91410**
	Sub-Total				**417873**
8	Turnkey Charges	4.00%			16715
	Total				**434588**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	552539	434588
Total Cost of the Estimate	552539	434588

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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	170.70	170700.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**210453.00**
1	Transportation on material	4.00%			8418
2	T&P on material cost	1.00%			2105
3	Contigencies on material	0.50%			1052
5	Erection cost on material	15.00%			31568
6	Contractor supervision charges on material	5.00%			10523
7	Insurance , Labour & Finance Cost	2.50%			5261
	Service Cost				**58927**
	Sub-Total				**269380**
8	Turnkey Charges	4.00%			10775
	Total				**280155**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	356192	280155
Total Cost of the Estimate	356192	280155

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Item Code No. 1414					
Estimate for LT to underground 3.5 x 95 sqmm cable for 1 Km					
Sr.No.	**Particulars**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount**
1	LT XLPE Armoured Cable 3 1/2C X 95 Sq mm	Rmt	1000	239.08	239080.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**278833.00**
1	Transportation on material	4.00%			11153
2	T&P on material cost	1.00%			2788
3	Contigencies on material	0.50%			1394
5	Erection cost on material	15.00%			41825
6	Contractor supervision charges on material	5.00%			13942
7	Insurance , Labour & Finance Cost	2.50%			6971
	Service Cost				**78073**
	Sub-Total				**356906**
8	Turnkey Charges	4.00%			14276
	Total				**371182**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	471925	371182
Total Cost of the Estimate	471925	371182

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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	55.73	55730.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**95483.00**
1	Transportation on material	4.00%			3819
2	T&P on material cost	1.00%			955
3	Contigencies on material	0.50%			477
5	Erection cost on material	15.00%			14322
6	Contractor supervision charges on material	5.00%			4774
7	Insurance , Labour & Finance Cost	2.50%			2387
	Service Cost				**26735**
	Sub-Total				**122218**
8	Turnkey Charges	4.00%			4889
	Total				**127107**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	161605	127107
Total Cost of the Estimate	161605	127107

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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	89.18	89180.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**128933.00**
1	Transportation on material	4.00%			5157
2	T&P on material cost	1.00%			1289
3	Contigencies on material	0.50%			645
5	Erection cost on material	15.00%			19340
6	Contractor supervision charges on material	5.00%			6447
7	Insurance , Labour & Finance Cost	2.50%			3223
	Service Cost				**36101**
	Sub-Total				**165034**
8	Turnkey Charges	4.00%			6601
	Total				**171636**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	218219	171636
Total Cost of the Estimate	218219	171636

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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	50.49	50490.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
2	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**90243.00**
1	Transportation on material	4.00%			3610
2	T&P on material cost	1.00%			902
3	Contigencies on material	0.50%			451
5	Erection cost on material	15.00%			13536
6	Contractor supervision charges on material	5.00%			4512
7	Insurance , Labour & Finance Cost	2.50%			2256
	Service Cost				**25268**
	Sub-Total				**115511**
8	Turnkey Charges	4.00%			4620
	Total				**120131**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	152736	120131
Total Cost of the Estimate	152736	120131

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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	75.89	75890.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
2	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**115643.00**
1	Transportation on material	4.00%			4626
2	T&P on material cost	1.00%			1156
3	Contigencies on material	0.50%			578
5	Erection cost on material	15.00%			17346
6	Contractor supervision charges on material	5.00%			5782
7	Insurance , Labour & Finance Cost	2.50%			2891
	Service Cost				**32380**
	Sub-Total				**148023**
8	Turnkey Charges	4.00%			5921
	Total				**153944**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	195726	153944
Total Cost of the Estimate	195726	153944

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Item Code No. 1420					
Estimate for 3 phase 5 wire with AAC ANT conductor for phase and AAC GNAT 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	5165.00	103300.00
2	AAC Ant	Rmt	4300	23.47	100921.00
3	AAC Gnat	Rmt	1100	12.22	13442.00
4	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
5	L.T.Shackle Insulator	No	96	9.99	959.04
6	Aluminium Bobbins for neutral	No.	24	32.03	768.60
7	L.T.Shackle hardware	pair	120	34.62	4154.76
8	Jointing Sleeves for AAC	No	4	32.03	128.12
9	PG Clamp	No	6	26.50	159.01
10	Earthing Sets L.T.	No	5	162.57	812.85
11	L.T. Stay sets	No	8	462.84	3702.72
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	56.32	4055.04
13	Stay Insulators	No	8	9.75	78.00
14	Binding Wire	Kg.	1.5	70.45	105.68
15	Binding Tape	Kg	1.5	42.70	64.05
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
17	Concreting ration 1:4:8	Cmt	2.4	2596.08	
18	L.T.Spacers	No	57	103.64	5907.48
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.11	3651.58
b)	GNAT To GNAT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**254482.42**

1	Transportation on material	4.00%	10179
2	T&P on material cost	1.00%	2545
3	Contigencies on material	0.50%	1272
5	Erection cost on material	15.00%	38172
6	Contractor supervision charges on material	5.00%	12724
7	Insurance , Labour & Finance Cost	2.50%	6362
	Service Cost		**71255**
	Sub-Total		**325737**
8	Turnkey Charges	4.00%	13029
	Total		**338767**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	430711	338767
Total Cost of the Estimate	430711	338767

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Item Code No. 1423					
L.T. LINE 3 ph 4 W. on 125 X 70mm, 9m RSJ pole With ANT for phase & GNAT for neutral					
SR.NO.	**DESCRIPTION OF MATERIALS.**	**UNIT**	**QTY**	**RT/UNIT(RS)**	**AMT.(RS)**
1	RSJ 125x70, 9 m long	No.	20	5165.00	103300.00
2	AAC Ant	Rmt	3200	23.47	75104.00
3	AAC Gnat	Rmt	1100	12.22	13442.00
4	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
5	L.T.Shackle Insulator	No	72	9.99	719.28
6	Aluminium Bobbins for neutral	No.	24	32.03	768.60
7	L.T.Shackle hardware	Pair	96	34.62	3323.81
8	Jointing Sleeves for AAC	No	4	32.03	128.12
9	PG Clamp	No	6	26.50	159.01
10	Earthing Sets L.T.	No	5	162.57	812.85
11	L.T. Stay sets	No	8	462.84	3702.72
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	56.32	4055.04
13	Stay Insulators	No	8	9.75	78.00
14	Binding Wire	Kg.	1.5	70.45	105.68
15	Binding Tape	Kg	1.5	42.70	64.05
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
17	Concreting ration 1:4:8	Cmt	2.4	2596.08	
18	L.T.Spacers	No	57	103.64	5907.48
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.11	3651.58
b)	GNAT To GNAT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**227594.71**

1	Transportation on material	4.00%	9104
2	T&P on material cost	1.00%	2276
3	Contigencies on material	0.50%	1138
5	Erection cost on material	15.00%	34139
6	Contractor supervision charges on material	5.00%	11380
7	Insurance , Labour & Finance Cost	2.50%	5690
	Service Cost		**63727**
	Sub-Total		**291321**
8	Turnkey Charges	4.00%	11653
	Total		**302974**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	385204	302974
Total Cost of the Estimate	385204	302974

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Item Code No. 1424					
L.T. LINE 3 ph 4 W. on 125 X 70mm, 8m RSJ pole With ANT for phase & GNAT for neutral					
SR.NO.	**DESCRIPTION OF MATERIALS.**	**UNIT**	**QTY**	**RT/UNIT(RS)**	**AMT.(RS)**
1	RSJ 125x70, 8 m long	No.	20	4591.00	91820.00
2	AAC Ant	Rmt	3200	23.47	75104.00
3	AAC Gnat	Rmt	1100	12.22	13442.00
4	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
5	L.T.Shackle Insulator	No	72	9.99	719.28
6	Aluminium Bobbins for neutral	No.	24	32.03	768.60
7	L.T.Shackle hardware	Pair	96	34.62	3323.81
8	Jointing Sleeves for AAC	No	4	32.03	128.12
9	PG Clamp	No	6	26.50	159.01
10	Earthing Sets L.T.	No	5	162.57	812.85
11	L.T. Stay sets	No	8	462.84	3702.72
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	72	56.32	4055.04
13	Stay Insulators	No	8	9.75	78.00
14	Binding Wire	Kg.	1.5	70.45	105.68
15	Binding Tape	Kg	1.5	42.70	64.05
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
17	Concreting ration 1:4:8	Cmt	2.4	2596.08	
18	L.T.Spacers	No	57	103.64	5907.48
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.11	3651.58
b)	GNAT To GNAT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**216114.71**

1	Transportation on material	4.00%	8645
2	T&P on material cost	1.00%	2161
3	Contigencies on material	0.50%	1081
5	Erection cost on material	15.00%	32417
6	Contractor supervision charges on material	5.00%	10806
7	Insurance , Labour & Finance Cost	2.50%	5403
	Service Cost		**60512**
	Sub-Total		**276627**
8	Turnkey Charges	4.00%	11065
	Total		**287692**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	365774	287692
Total Cost of the Estimate	365774	287692

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MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No.1425					
3 phase 5 wire LT line with ANT for phase and GNAT 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	1800.00	36000.00
2	AAC Ant	Rmt	3100.00	23.47	72757.00
3	AAC Gnat	Rmt	2100.00	12.22	25662.00
4	MS angle 50x50x6 mm	Kg	150.00	50.78	7617.00
5	M.S. Flats(50 X 10mm)	Kg	40.00	47.55	1902.00
6	L.T.Shackle Insulator	No	96.00	9.99	959.04
7	Aluminium Bobbins for neutral	No.	24	32.03	768.60
8	L.T.Shackle hardware	Pair	120.00	34.62	4154.76
9	Jointing Sleeves for AAC	No	5.00	32.03	160.15
10	PG Clamp	No	6.00	26.50	159.01
11	Earthing Sets L.T.	Set	5.00	162.57	812.85
12	L.T. Stay sets	Set	8.00	462.84	3702.72
13	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	100.00	56.32	5632.00
14	Stay Insulators	No	8.00	9.75	78.00
15	Binding Wire	Kg	1.80	70.45	126.81
16	Binding Tape	Kg	1.80	42.70	76.86
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	100.00	56.27	5627.00
18	Red Oxide Paint for 2 coats	Ltr	25.00	60.00	1500.00
19	L.T.Spacers	No	76.00	103.64	7876.64
20	G.I.Nut Bolts	Kg	57.00	82.89	4724.69
21	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.11	3651.58
b)	GNAT To GNAT or equivalent AAAC	No	24	114.11	2738.69
21	Sundries	LS	1.00	770.00	770.00
	Cost of Material				**187457.40**

1	Transportation on material	4.00%	7498
2	T&P on material cost	1.00%	1875
3	Contigencies on material	0.50%	937
5	Erection cost on material	15.00%	28119
6	Contractor supervision charges on material	5.00%	9373
7	Insurance , Labour & Finance Cost	2.50%	4686
	Service Cost		**52488**
	Sub-Total		**239945**
8	Turnkey Charges	4.00%	9598
	Total		**249543**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	317272	249543
Total Cost of the Estimate	317272	249543

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MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No.1425A					
3 phase 5 wire LT line with ANT for phase and GNAT 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	1500.00	30000.00
2	AAC Ant	Rmt	3100.00	23.47	72757.00
3	AAC Gnat	Rmt	2100.00	12.22	25662.00
4	MS angle 50x50x6 mm	Kg	150.00	50.78	7617.00
5	M.S. Flats(50 X 10mm)	Kg	40.00	47.55	1902.00
6	L.T.Shackle Insulator	No	96.00	9.99	959.04
7	Aluminium Bobbins for neutral	No.	24	32.03	768.60
7	L.T.Shackle hardware	Pair	120.00	34.62	4154.76
8	Jointing Sleeves for AAC	No	5.00	32.03	160.15
9	PG Clamp	No	6.00	26.50	159.01
10	Earthing Sets L.T.	Set	5.00	162.57	812.85
11	L.T. Stay sets	Set	8.00	462.84	3702.72
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	100.00	56.32	5632.00
13	Stay Insulators	No	8.00	9.75	78.00
14	Binding Wire	Kg	1.80	70.45	126.81
15	Binding Tape	Kg	1.80	42.70	76.86
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	100.00	56.27	5627.00
17	Red Oxide Paint for 2 coats	Ltr	25.00	60.00	1500.00
18	L.T.Spacers	No	76.00	103.64	7876.64
19	G.I.Nut Bolts	Kg	57.00	82.89	4724.69
20	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	32	114.11	3651.58
b)	GNAT To GNAT or equivalent AAAC	No	24	114.11	2738.69
21	Sundries	LS	1.00	770.00	770.00
	Cost of Material				**181457.40**

1	Transportation on material	4.00%	7258
2	T&P on material cost	1.00%	1815
3	Contigencies on material	0.50%	907
5	Erection cost on material	15.00%	27219
6	Contractor supervision charges on material	5.00%	9073
7	Insurance , Labour & Finance Cost	2.50%	4536
	Service Cost		**50808**
	Sub-Total		**232265**
8	Turnkey Charges	4.00%	9291
	Total		**241556**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	307117	241556
Total Cost of the Estimate	307117	241556

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MSEDCL

Item Code No. 1501					
L.T. LINE 1 ph 3 W. -with GNAT 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	1800.00	39600.00
2	AAC Gnat	Rmt	3150	12.22	38493.00
3	M.S.Flat 50 x 6 mm	Kg	60	48.20	2892.00
4	L.T.Shackle Insulator	No	52	9.99	519.48
5	Aluminium Bobbins for neutral	No.	26	32.03	832.65
6	L.T.Shackle hardware	Pair	104	34.62	3600.79
7	Jointing Sleeves for AAC	No	3	32.03	96.09
8	PG Clamp	No	6	26.50	159.01
9	Earthing Sets L.T.	No	5	162.57	812.85
10	L.T. Stay sets	No	8	462.84	3702.72
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	56.32	5406.72
12	Stay Insulators	No	8	9.75	78.00
13	Binding Wire	Kg.	2	70.45	140.90
14	Binding Tape	Kg	2	42.70	85.40
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
16	Concreting ration 1:4:8	LS	1	2596.08	2596.08
17	L.T.Spacers	No	63	103.64	6529.32
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	32	114.11	3651.58

	Cost of material		**117573.59**
1	Transportation on material	4.00%	4703
2	T&P on material cost	1.00%	1176
3	Contigencies on material	0.50%	588
5	Erection cost on material	15.00%	17636
6	Contractor supervision charges on material	5.00%	5879
7	Insurance , Labour & Finance Cost	2.50%	2939
	Service Cost		**32921**
	Sub-Total		**150494**
8	Turnkey Charges	4.00%	6020
	Total		**156514**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	198993	156514
Total Cost of the Estimate	198993	156514

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MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1501A					
L.T. LINE 1 ph 3 W. -with GNAT 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	1500.00	33000.00
2	AAC Gnat	Rmt	3150	12.22	38493.00
3	M.S.Flat 50 x 6 mm	Kg	60	48.20	2892.00
4	L.T.Shackle Insulator	No	52	9.99	519.48
5	Aluminium Bobbins for neutral	No.	26	32.03	832.65
6	L.T.Shackle hardware	Pair	104	34.62	3600.79
7	Jointing Sleeves for AAC	No	3	32.03	96.09
8	PG Clamp	No	6	26.50	159.01
9	Earthing Sets L.T.	No	5	162.57	812.85
10	L.T. Stay sets	No	8	462.84	3702.72
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	56.32	5406.72
12	Stay Insulators	No	8	9.75	78.00
13	Binding Wire	Kg.	2	70.45	140.90
14	Binding Tape	Kg	2	42.70	85.40
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
16	Concreting ration 1:4:8	LS	1	2596.08	2596.08
17	L.T.Spacers	No	63	103.64	6529.32
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	32	114.11	3651.58

	Cost of material		**110973.59**
1	Transportation on material	4.00%	4439
2	T&P on material cost	1.00%	1110
3	Contigencies on material	0.50%	555
5	Erection cost on material	15.00%	16646
6	Contractor supervision charges on material	5.00%	5549
7	Insurance , Labour & Finance Cost	2.50%	2774
	Service Cost		**31073**
	Sub-Total		**142046**
8	Turnkey Charges	4.00%	5682
	Total		**147728**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	187823	147728
Total Cost of the Estimate	187823	147728

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1502					
L.T. LINE 1 ph 2 W. - with GNAT 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	1800.00	39600.00
2	AAC Gnat	Rmt	2100	12.22	25662.00
3	M.S.Flat 50 x 6 mm	Kg	40	48.20	1928.00
4	L.T.Shackle Insulator	No	26	9.99	259.74
5	Aluminium Bobbins for neutral	No.	26	32.03	832.65
6	L.T.Shackle hardware	Pair	78	34.62	2700.59
7	Jointing Sleeves for AAC	No	2	32.03	64.06
8	PG Clamp	No	6	26.50	159.01
9	Earthing Sets L.T.	No	5	162.57	812.85
10	L.T. Stay sets	No	8	462.84	3702.72
11	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	56.32	5406.72
12	Stay Insulators	No	8	9.75	78.00
13	Binding Wire	Kg.	1.5	70.45	105.68
14	Binding Tape	Kg	1.5	42.70	64.05
15	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
16	Concreting ration 1:4:8	LS	1	2596.08	2596.08
17	L.T.Spacers	No	63	103.64	6529.32
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
19	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	24	114.11	2738.69

	Cost of material		**101617.16**
1	Transportation on material	4.00%	4065
2	T&P on material cost	1.00%	1016
3	Contigencies on material	0.50%	508
5	Erection cost on material	15.00%	15243
6	Contractor supervision charges on material	5.00%	5081
7	Insurance , Labour & Finance Cost	2.50%	2540
	Service Cost		**28453**
	Sub-Total		**130070**
8	Turnkey Charges	4.00%	5203
	Total		**135273**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	171987	135273
Total Cost of the Estimate	171987	135273

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MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 1502A					
L.T. LINE 1 ph 2 W. - with GNAT 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	1500.00	33000.00
2	AAC Gnat	Rmt	2100	12.22	25662.00
3	M.S.Flat 50 x 6 mm	Kg	40	48.20	1928.00
4	L.T.Shackle Insulator	No	26	9.99	259.74
5	Aluminium Bobbins for neutral	No.	26	32.03	832.65
5	L.T.Shackle hardware	Pair	78	34.62	2700.59
6	Jointing Sleeves for AAC	No	2	32.03	64.06
7	PG Clamp	No	6	26.50	159.01
8	Earthing Sets L.T.	No	5	162.57	812.85
9	L.T. Stay sets	No	8	462.84	3702.72
10	G.I.Stay Wire 7/3.15mm(10SWG)	Kg	96	56.32	5406.72
11	Stay Insulators	No	8	9.75	78.00
12	Binding Wire	Kg.	1.5	70.45	105.68
13	Binding Tape	Kg	1.5	42.70	64.05
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
15	Concreting ration 1:4:8	LS	1	2596.08	2596.08
16	L.T.Spacers	No	63	103.64	6529.32
17	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
18	Wedge connectors				
a)	GNAT To GNAT or equivalent AAAC	No	24	114.11	2738.69

	Cost of material		**95017.16**
1	Transportation on material	4.00%	3801
2	T&P on material cost	1.00%	950
3	Contigencies on material	0.50%	475
5	Erection cost on material	15.00%	14253
6	Contractor supervision charges on material	5.00%	4751
7	Insurance , Labour & Finance Cost	2.50%	2375
	Service Cost		**26605**
	Sub-Total		**121622**
8	Turnkey Charges	4.00%	4865
	Total		**126487**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	160817	126487
Total Cost of the Estimate	160817	126487

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MSEDCL

Item Code No. 1503					
1 phase 2 Wire LT line with AAAC 34 mm2 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	5165.00	82640.00
2	MS Flat 50 X 8 mm	Kg	24	47.55	1141.20
3	AAC Gnat	Rmt	1100	12.22	13442.00
4	AAAC 34 mm^2	Rmt	1100	17.80	19580.00
5	L.T.Shackle Insulator	No	20	9.99	199.80
6	Aluminium Bobbins for neutral	No.	20	32.03	640.50
7	L.T.Shackle hardware	Pair	60	34.62	2077.38
8	Jointing Sleeves for AAC	No	2	32.03	64.06
9	PG Clamp	No	4	26.50	106.01
10	Earthing Sets L.T.	Set	5	162.57	812.85
11	L.T. Stay sets	Set	8	462.84	3702.72
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	56.32	4055.04
13	Stay Insulators	No	8	9.75	78.00
14	Binding Wire	Kg	2	70.45	140.90
15	Binding Tape	Kg	2	42.70	85.40
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	56.27	4220.25
17	L.T.Spacers	No	45	103.64	4663.80
18	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	114.11	1369.34
b)	GNAT To GNAT or equivalent AAAC	No	12	114.11	1369.34
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
	Cost of material				**143138.59**

1	Transportation on material	4.00%	5726
2	T&P on material cost	1.00%	1431
3	Contigencies on material	0.50%	716
5	Erection cost on material	15.00%	21471
6	Contractor supervision charges on material	5.00%	7157
7	Insurance , Labour & Finance Cost	2.50%	3578
	Service Cost		**40079**
	Sub-Total		**183217**
8	Turnkey Charges	4.00%	7329
	Total		**190546**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	242262	190546
Total Cost of the Estimate	242262	190546

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MSEDCL

Item Code No. 1504					
1 phase 2 Wire LT line with ANT for phase and GNAT 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	1800.00	28800.00
2	MS Flat 50 X 8 mm	Kg	24	47.55	1141.20
3	AAC Ant	Rmt	1100.00	23.47	25817.00
4	AAC Gnat	Rmt	1100	12.22	13442.00
5	L.T.Shackle Insulator	No	20	9.99	199.80
6	Aluminium Bobbins for neutral	No.	20	32.03	640.50
7	L.T.Shackle hardware	Pair	60	34.62	2077.38
8	Jointing Sleeves for AAC	No	2	32.03	64.06
9	PG Clamp	No	4	26.50	106.01
10	Earthing Sets L.T.	Set	5	162.57	812.85
11	L.T. Stay sets	Set	8	462.84	3702.72
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	56.32	4055.04
13	Stay Insulators	No	8	9.75	78.00
14	Binding Wire	Kg	2	70.45	140.90
15	Binding Tape	Kg	2	42.70	85.40
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	56.27	4220.25
17	L.T.Spacers	No	45	103.64	4663.80
18	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	114.11	1369.34
b)	GNAT To GNAT or equivalent AAAC	No	12	114.11	1369.34
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
	Cost of material				**95535.59**

1	Transportation on material	4.00%	3821
2	T&P on material cost	1.00%	955
3	Contigencies on material	0.50%	478
5	Erection cost on material	15.00%	14330
6	Contractor supervision charges on material	5.00%	4777
7	Insurance , Labour & Finance Cost	2.50%	2388
	Service Cost		**26750**
	Sub-Total		**122286**
8	Turnkey Charges	4.00%	4891
	Total		**127177**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	161694	127177
Total Cost of the Estimate	161694	127177

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MSEDCL

Item Code No. 1504A					
1 phase 2 Wire LT line with ANT for phase and GNAT 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	1500.00	24000.00
2	MS Flat 50 X 8 mm	Kg	24	47.55	1141.20
3	AAC Ant	Rmt	1100.00	23.47	25817.00
4	AAC Gnat	Rmt	1100	12.22	13442.00
5	L.T.Shackle Insulator	No	20	9.99	199.80
6	Aluminium Bobbins for neutral	No.	20	32.03	640.50
7	L.T.Shackle hardware	Pair	60	34.62	2077.38
8	Jointing Sleeves for AAC	No	2	32.03	64.06
9	PG Clamp	No	4	26.50	106.01
10	Earthing Sets L.T.	Set	5	162.57	812.85
11	L.T. Stay sets	Set	8	462.84	3702.72
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	56.32	4055.04
13	Stay Insulators	No	8	9.75	78.00
14	Binding Wire	Kg	2	70.45	140.90
15	Binding Tape	Kg	2	42.70	85.40
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	56.27	4220.25
17	L.T.Spacers	No	45	103.64	4663.80
18	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	114.11	1369.34
b)	GNAT To GNAT or equivalent AAAC	No	12	114.11	1369.34
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
	Cost of material				**90735.59**

1	Transportation on material	4.00%	3629
2	T&P on material cost	1.00%	907
3	Contigencies on material	0.50%	454
5	Erection cost on material	15.00%	13610
6	Contractor supervision charges on material	5.00%	4537
7	Insurance , Labour & Finance Cost	2.50%	2268
	Service Cost		**25406**
	Sub-Total		**116142**
8	Turnkey Charges	4.00%	4646
	Total		**120787**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	153570	120787
Total Cost of the Estimate	153570	120787

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MSEDCL

Item Code No. 1505					
1 phase 2 Wire LT line with ANT for phase and GNAT for neutral on RSJ 125 X 70, 8mtr.					
S.No.	**Description**	**Unit**	**Qty.**	**Rate**	**Amount**
1	RSJ 125x70, 8 m long	No	16	4591.00	73456.00
2	MS Flat 50 X 8 mm	Kg	24	47.55	1141.20
3	AAC Gnat	Rmt	1100	12.22	13442.00
4	AAC Ant	Rmt	1100	23.47	25817.00
5	L.T.Shackle Insulator	No	20	9.99	199.80
6	Aluminium Bobbins for neutral	No.	20	32.03	640.50
7	L.T.Shackle hardware	Pair	60	34.62	2077.38
8	Jointing Sleeves for AAC	No	2	32.03	64.06
9	PG Clamp	No	4	26.50	106.01
10	Earthing Sets L.T.	Set	5	162.57	812.85
11	L.T. Stay sets	Set	8	462.84	3702.72
12	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	72	56.32	4055.04
13	Stay Insulators	No	8	9.75	78.00
14	Binding Wire	Kg	2	70.45	140.90
15	Binding Tape	Kg	2	42.70	85.40
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	75	56.27	4220.25
17	Wedge connectors				
a)	Ant To Ant or equivalent AAAC	No	12	114.11	1369.34
b)	GNAT To GNAT or equivalent AAAC	No	12	114.11	1369.34
18	L.T.Spacers	No	45	103.64	4663.80
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
	Cost of material				**140191.59**

1	Transportation on material	4.00%	5608
2	T&P on material cost	1.00%	1402
3	Contigencies on material	0.50%	701
5	Erection cost on material	15.00%	21029
6	Contractor supervision charges on material	5.00%	7010
7	Insurance , Labour & Finance Cost	2.50%	3505
	Service Cost		**39254**
	Sub-Total		**179445**
8	Turnkey Charges	4.00%	7178
	Total		**186623**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	237274	186623
Total Cost of the Estimate	237274	186623

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	48800.00	48800.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.11	405.32
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	15000.00	15000.00
10	L.As. 11 KV (Gapless type) with disconector	Set.	1	1100.00	1100.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	11KV H.G.Fuses	Set.	1	1780.00	1780.00
15	11KV A.B. Switch	No.	1	8400.00	8400.00
16	Danger Board in yard.	No.	2	50.00	100.00
17	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
18	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
19	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
20	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
21	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	10007.01	10007.01
22	Sundries	L.S.	1	770.00	770.00

	Cost of material		**127584.39**
1	Transportation on material	4.00%	5103
2	T&P on material cost	1.00%	1276
3	Contigencies on material	0.50%	638
5	Erection cost on material	15.00%	19138
6	Contractor supervision charges on material	5.00%	6379
7	Insurance , Labour & Finance Cost	2.50%	3190
	Service Cost		**35724**
	Sub-Total		**163308**
8	Turnkey Charges	4.00%	6532
	Total		**169840**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	215937	169840
Total Cost of the Estimate	215937	169840

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 01605					
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	2060.00	37080.00
2	MS Channel 100x50x6 mm	Kg.	140	50.78	7109.20
3	M.S.Channel 75x40x6 mm	Kg.	150	50.78	7617.00
4	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
5	22 KV V cross arm with clamp	No.	12	887.79	10653.48
6	22 KV Top Fitting	No.	12	374.36	4492.32
7	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
8	G.I.Nut Bolts	Kg.	90	82.89	7460.03
9	22 kV Pin Insulators with G.I. Pins	No.	51	335.98	17134.76
10	Disc Insulator 11 KV 4500 KG.	No.	72	244.47	17601.84
11	Strain Hardware for 55 Sq.mm AAAC	Set	24	140.00	3360.00
12	AAAC 55 mm2	Rmt	3100	28.00	86800.00
13	Sleve Joints	No.	3	115.21	345.63
14	H.T.Stay Set	Set	12	586.66	7039.92
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	56.32	4956.16
16	Earthing Sets H.T	Set	18	335.51	6039.18
17	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
18	Danger Board in yard.	No.	18	50.00	900.00
19	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
23	Minor Fabrication,binding tape, wire, etc.				
24	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**287329.15**

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		287329.15
1	Transportation on material	4.00%	11493
2	T&P on material cost	1.00%	2873
3	Contigencies on material	0.50%	1437
5	Erection cost on material	15.00%	43099
6	Contractor supervision charges on material	5.00%	14366
7	Insurance , Labour & Finance Cost	2.50%	7183
	Service Cost		**80452**
	Sub-Total		**367781**
8	Turnkey Charges	4.00%	14711
	Total		**382493**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	486305	382493
Total Cost of the Estimate	486305	382493

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MSEDCL

Item Code No. 01606

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	9073.00	163314.00
2	RSJ 116x100, 8 m long	No.	5	8065.00	40325.00
3	MS Channel 100x50x6 mm	Kg.	140	50.78	7109.20
4	M.S.Channel 75x40x6 mm	Kg.	150	50.78	7617.00
5	MS angle 50x50x6 mm	Kg.	72	50.78	3656.16
6	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
7	22 KV V cross arm with clamp	No.	12	887.79	10653.48
8	22 KV Top Fitting	No.	12	374.36	4492.32
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	22 kV Pin Insulators with G.I. Pins	No.	51	335.98	17134.76
11	Disc Insulator 11 KV 4500 KG.	No.	72	244.47	17601.84
12	Strain Hardware for 55 Sq.mm AAAC	Set	36	140.00	5040.00
13	AAAC 55 mm2	Rmt	3100	28.00	86800.00
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	11	586.66	6453.26
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	56.32	4956.16
17	Earthing Sets H.T	Set	18	335.51	6039.18
18	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
19	Danger Board in yard.	No.	18	50.00	900.00
20	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Minor Fabrication,binding tape, wire, etc.				
27	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69

Cost of material **457233.16**

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.

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	Cost of material		457233.16
1	Transportation on material	4.00%	18289
2	T&P on material cost	1.00%	4572
3	Contigencies on material	0.50%	2286
5	Erection cost on material	15.00%	68585
6	Contractor supervision charges on material	5.00%	22862
7	Insurance , Labour & Finance Cost	2.50%	11431
	Service Cost		**128025**
	Sub-Total		**585258**
8	Turnkey Charges	4.00%	23410
	Total		**608669**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	773867	608669
Total Cost of the Estimate	773867	608669

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Item Code No. 01607

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	9073.00	163314.00
2	RSJ 116x100, 8 m long	No.	5	8065.00	40325.00
3	MS Channel 100x50x6 mm	Kg.	140	50.78	7109.20
4	M.S.Channel 75x40x6 mm	Kg.	150	50.78	7617.00
5	MS angle 50x50x6 mm	Kg.	66	50.78	3351.48
6	M.S. Flats(50 X 10mm)	Kg.	171	47.55	8131.05
7	22 KV V cross arm with clamp	No.	12	887.79	10653.48
8	22 KV Top Fitting	No.	12	374.36	4492.32
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	22 kV Pin Insulators with G.I. Pins	No.	51	335.98	17134.76
11	Disc Insulator 11 KV 4500 KG.	No.	72	244.47	17601.84
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	36	321.66	11579.76
13	AAAC 100 mm2	Rmt	3100	50.80	157480.00
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	11	586.66	6453.26
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	56.32	4956.16
17	Earthing Sets H.T	Set	18	335.51	6039.18
18	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
19	Danger Board in yard.	No.	18	50.00	900.00
20	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Minor Fabrication,binding tape, wire, etc.				
27	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21

Cost of material **540519.94**

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.

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	Cost of material		540519.94
1	Transportation on material	4.00%	21621
2	T&P on material cost	1.00%	5405
3	Contigencies on material	0.50%	2703
5	Erection cost on material	15.00%	81078
6	Contractor supervision charges on material	5.00%	27026
7	Insurance , Labour & Finance Cost	2.50%	13513
	Service Cost		**151346**
	Sub-Total		**691866**
8	Turnkey Charges	4.00%	27675
	Total		**719540**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	914830	719540
Total Cost of the Estimate	914830	719540

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 01608					
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	2060.00	37080.00
2	M.S.Channel 75x40x6 mm	Kg.	140	50.78	7109.20
3	11 kv guarding channel MS 75x40	Kg.	150	50.78	7617.00
4	11 KV V cross arm with clamp	No.	12	626.03	7512.36
5	11 KV Top fitting with clamp	No.	12	89.03	1068.36
6	MS angle 50x50x6 mm	Kg.	66	50.78	3351.48
7	M.S. Flats(50 X 10mm)	Kg.	171	47.55	8131.05
8	G.I.Nut Bolts	Kg.	90	82.89	7460.03
9	11 kV Pin Insulators with G.I. Pins	No.	51	135.11	6890.37
10	Disc Insulator 11 KV 4500 KG.	No.	72	244.47	17601.84
11	Strain Hardware for 55 Sq.mm AAAC	Set	36	140.00	5040.00
12	AAAC 55 mm2	Rmt	3100	28.00	86800.00
13	Sleve Joints	No.	3	115.21	345.63
14	H.T.Stay Set	Set	11	586.66	6453.26
15	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	56.32	4956.16
16	Earthing Sets H.T	Set	18	335.51	6039.18
17	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
18	Danger Board in yard.	No.	18	50.00	900.00
19	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
20	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
21	Painting of Supports & fabricated materials	LS	1	153.70	153.70
22	Sundries	LS	1	770.00	770.00
23	Minor Fabrication,binding tape, wire, etc.				
24	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**280418.73**

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		280418.73
1	Transportation on material	4.00%	11217
2	T&P on material cost	1.00%	2804
3	Contigencies on material	0.50%	1402
5	Erection cost on material	15.00%	42063
6	Contractor supervision charges on material	5.00%	14021
7	Insurance , Labour & Finance Cost	2.50%	7010
	Service Cost		**78517**
	Sub-Total		**358936**
8	Turnkey Charges	4.00%	14357
	Total		**373293**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	474609	373293
Total Cost of the Estimate	474609	373293

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 01609					
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	9073.00	163314.00
2	RSJ 116x100, 8 m long	No.	2	8065.00	16130.00
3	M.S.Channel 75x40x6 mm	Kg.	140	50.78	7109.20
4	11 kv guarding channel MS 75x40	Kg.	150	50.78	7617.00
5	11 KV V cross arm with clamp	No.	12	626.03	7512.36
6	11 KV Top fitting with clamp	No.	12	89.03	1068.36
7	MS angle 50x50x6 mm	Kg.	66	50.78	3351.48
8	M.S. Flats(50 X 10mm)	Kg.	171	47.55	8131.05
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	11 kV Pin Insulators with G.I. Pins	No.	51	135.11	6890.37
11	Disc Insulator 11 KV 4500 KG.	No.	72	244.47	17601.84
12	Strain Hardware for 55 Sq.mm AAAC	Set	36	140.00	5040.00
13	AAAC 55 mm2	Rmt	3100	28.00	86800.00
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	11	586.66	6453.26
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	56.32	4956.16
17	Earthing Sets H.T	Set	18	335.51	6039.18
18	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
19	Danger Board in yard.	No.	18	50.00	900.00
20	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Minor Fabrication,binding tape, wire, etc.				
27	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**422295.71**

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.

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	Cost of material		422295.71
1	Transportation on material	4.00%	16892
2	T&P on material cost	1.00%	4223
3	Contigencies on material	0.50%	2111
5	Erection cost on material	15.00%	63344
6	Contractor supervision charges on material	5.00%	21115
7	Insurance , Labour & Finance Cost	2.50%	10557
	Service Cost		**118243**
	Sub-Total		**540539**
8	Turnkey Charges	4.00%	21622
	Total		**562160**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	33.12%
Cost with overheads on Material	714735	562160
Total Cost of the Estimate	714735	562160

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Item Code No. 01610

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	9073.00	163314.00
2	RSJ 116x100, 8 m long	No.	2	8065.00	16130.00
3	M.S.Channel 75x40x6 mm	Kg.	140	50.78	7109.20
4	11 kv guarding channel MS 75x40	Kg.	150	50.78	7617.00
5	11 KV V cross arm with clamp	No.	12	626.03	7512.36
6	11 KV Top fitting with clamp	No.	12	89.03	1068.36
7	MS angle 50x50x6 mm	Kg.	66	50.78	3351.48
8	M.S. Flats(50 X 10mm)	Kg.	171	47.55	8131.05
9	G.I.Nut Bolts	Kg.	90	82.89	7460.03
10	11 kV Pin Insulators with G.I. Pins	No.	51	135.11	6890.37
11	Disc Insulator 11 KV 4500 KG.	No.	72	244.47	17601.84
12	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	36	321.66	11579.76
13	AAAC 100 mm2	Rmt	3100	50.80	157480.00
14	Sleve Joints	No.	3	115.21	345.63
15	H.T.Stay Set	Set	11	586.66	6453.26
16	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	88	56.32	4956.16
17	Earthing Sets H.T	Set	18	335.51	6039.18
18	G.I.Barbed Wire `A' type.	Kg.	77	63.01	4851.77
19	Danger Board in yard.	No.	18	50.00	900.00
20	Concreting ration 1:4:8	Cmt.	20	2596.08	51921.65
21	G.I.Wire 8 SWG/ 6 SWG	Kg.	100	56.27	5627.00
22	Black Bituminus Paint	Ltr.	6	60.00	360.00
23	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
24	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
25	Sundries	LS	1	770.00	770.00
26	Minor Fabrication,binding tape, wire, etc.				
27	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**499515.47**

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.

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	Cost of material		499515.47
1	Transportation on material	4.00%	19981
2	T&P on material cost	1.00%	4995
3	Contigencies on material	0.50%	2498
5	Erection cost on material	15.00%	74927
6	Contractor supervision charges on material	5.00%	24976
7	Insurance , Labour & Finance Cost	2.50%	12488
	Service Cost		**139864**
	Sub-Total		**639380**
8	Turnkey Charges	4.00%	25575
	Total		**664955**

Perticulars	DPR Amount	Tender/ Estimate Amount
	69.25%	**33.12%**
Cost with overheads on Material	845430	664955
Total Cost of the Estimate	845430	664955

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	48800.00	48800.00
2	RSJ 116x100, 11 m long	No	2	11089.00	22178.00
3	MS Channel 100x50x6 mm	Kg.	100	50.78	5078.00
4	M.S.Channel 75x40x6 mm	kg.	44	50.78	2234.32
5	MS angle 50x50x6 mm	kg.	22	50.78	1117.16
6	M.S.Flat 50 x 6 mm	kg.	24	48.20	1156.80
7	11 kV Pin Insulators with G.I. Pins	NO.	3	135.11	405.32
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	3	321.66	964.98
9	L.T.Dist.Boxes 25/63 KVA with MCCB	No.	1	15000.00	15000.00
10	L.As. 11 KV (Gapless type) with disconector	Set.	1	1100.00	1100.00
11	H.T.Stay Set	No	4	586.66	2346.64
12	G.I.Stay Wire 7/4mm(8 SWG)	kg.	25	56.32	1408.00
13	Earthing Sets H.T	No.	3	335.51	1006.53
14	11KV H.G.Fuses	Set.	1	1780.00	1780.00
	11KV A.B. Switch	No.	1	8400.00	8400.00
15	Danger Board in yard.	No.	2	50.00	100.00
16	G.I.Wire 8 SWG/ 6 SWG	Kg.	25	56.27	1406.75
17	G.I.Barbed Wire `A' type.	kg.	15	63.01	945.15
18	Concreting ration 1:4:8	CMT.	2	2596.08	5192.16
19	Painting/Hardware & support with numbering of pole	L.S.	1	219.57	219.57
20	DTC Metring with Box, single core L.T. XLPE cable (16 sq.mm., 120 mtr length) and other allied material.	No.	1	10007.01	10007.01
21	Sundries	L.S.	1	770.00	770.00
	Cost of material				**131616.39**

1	Transportation on material	4.00%	5265
2	T&P on material cost	1.00%	1316
3	Contigencies on material	0.50%	658
5	Erection cost on material	15.00%	19742
6	Contractor supervision charges on material	5.00%	6581
7	Insurance , Labour & Finance Cost	2.50%	3290
	Service Cost		**36853**
	Sub-Total		**168469**
8	Turnkey Charges	4.00%	6739
	Total		**175208**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	222761	175208
Total Cost of the Estimate	222761	175208

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

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	43795.00	43795.00
2	Automatic capacitor switch 11 KV	No.	1	104152.45	104152.45
3	M.S.Channel 75x40x6 mm	Kg	50	50.78	2539.00
4	MS angle 50x50x6 mm	Kg.	10	50.78	507.80
5	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
6	Earthing Sets H.T	No.	2	335.51	671.02
7	Earthing materials	L.S.	1	335.46	335.46
8	Miscelleneous material	L.S.	1	450.00	450.00

	Cost of material		**152926.23**
1	Transportation on material	4.00%	6117
2	T&P on material cost	1.00%	1529
3	Contigencies on material	0.50%	765
5	Erection cost on material	5.00%	7646
6	Contractor supervision charges on material	5.00%	7646
7	Insurance , Labour & Finance Cost	2.50%	3823
	Service Cost		**27527**
	Sub-Total		**180453**
8	Turnkey Charges	4.00%	7218
	Total		**187671**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	239207	187671
Total Cost of the Estimate	239207	187671

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

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	43795.00	43795.00
2	Automatic capacitor switch 11 KV	No.	1	104152.45	104152.45
B) DOUPLE POLE STRUCTURE , 11 M LONG RSJ POLE					
3	RSJ 152x152, 11 m long	No.	2	17887.00	35774.00
4	M.S. Flats(50 X 10mm)	Kg.	10	47.55	475.50
5	MS Channel 100x50x6 mm	Kg.	110	50.78	5585.80
6	M.S.Channel 75x40x6 mm	Kg.	75	50.78	3808.50
7	MS angle 50x50x6 mm	Kg.	50	50.78	2539.00
8	Strain Hardware for Dog0.1 or Equ.AAAC.	No.	6	321.66	1929.96
9	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
10	H.T.Stay Set	No.	2	586.66	1173.32
11	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	25	56.32	1408.00
12	Earthing Sets H.T	No	2	335.51	671.02
13	G.I.Wire 8 SWG/ 6 SWG	kg.	6	56.27	337.62
14	G.I.Barbed Wire `A' type.	kg.	7	63.01	441.07
15	Danger Board in yard.	No.	2	50.00	100.00
16	Black Bituminus Paint	Ltr.	2	60.00	120.00
17	Red Oxide Paint for 2 coats	Ltr.	6	60.00	360.00
18	Aluminium Paint for 1 coat	Ltr.	4	93.93	375.72
19	11 kV Pin Insulators with G.I. Pins	No.	2	135.11	270.21
20	L.As. 11 KV (Gapless type) with disconector	No.	1	1100.00	1100.00
21	Concreting ration 1:4:8	Cmt.	2	2596.08	5192.16
20	Sundries	L.S.	1	770.00	770.00

	Cost of material		**212446.21**
1	Transportation on material	4.00%	8498
2	T&P on material cost	1.00%	2124
3	Contigencies on material	0.50%	1062
5	Erection cost on material	5.00%	10622
6	Contractor supervision charges on material	5.00%	10622
7	Insurance , Labour & Finance Cost	2.50%	5311
	Service Cost		**38240**
	Sub-Total		**250687**
8	Turnkey Charges	4.00%	10027
	Total		**260714**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	332308	260714
Total Cost of the Estimate	332308	260714

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

Item Code No. 1703					
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	9900.00	9900.00
2	11 kV, Single phase, outdoor NCT	Nos.	1	13000.00	13000.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	13400.00	40200.00
3	1.2 MVAr, 11 kV Capacitor Bank	Set	1	118369.00	118369.00
4	11KV A.B. Switch	Nos.	1	8400.00	8400.00
2	11 KV Isolators with EB (800 A)	Set	1	26000.00	26000.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	22400.00	22400.00
6	11 KV VCB 800 A Outdoor	Set	1	145000.00	145000.00
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31177.38	31177.38
8	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	75556.18	75556.18
9	0.9688 KVAr, 11 kv, 1 Ph, Al winded series reactor	Set	1	46220.00	46220.00
10	Earthing Sets H.T	L.S.	17	335.51	5703.67

	Cost of material		**541926.23**
1	Transportation on material	4.00%	21677
2	T&P on material cost	1.00%	5419
3	Contigencies on material	0.50%	2710
5	Erection cost on material	5.00%	27096
6	Contractor supervision charges on material	5.00%	27096
7	Insurance , Labour & Finance Cost	2.50%	13548
	Service Cost		**97547**
	Sub-Total		**639473**
8	Turnkey Charges	4.00%	25579
	Total		**665052**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	847681	665052
Total Cost of the Estimate	847681	665052

Cost data of Structure for 11 KVStation Capacitor Bank

Sr.No.	**Description of Material**	**Unit**	**Qty.**	**RT/U Rs.**	**Amt.Rs.**
1	Structure for 11 KV CT	Kg.	50	50.78	2539.00
2	Structure for 11 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Breaker and Capacitors	Kg.	360	50.78	18280.80
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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Item Code No. 1704					
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	9900.00	9900.00
2	11 kV, Single phase, outdoor NCT	Nos.	1	13000.00	13000.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	13400.00	40200.00
3	2.4 MVAr, 11 kV Capacitor Bank	Set	1	240731.00	240731.00
4	11KV A.B. Switch	Nos.	1	8400.00	8400.00
2	11 KV Isolators with EB (800 A)	Set	1	26000.00	26000.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	22400.00	22400.00
6	11 KV VCB 800 A Outdoor	Set	1	145000.00	145000.00
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31177.38	31177.38
8	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	75556.18	75556.18
9	1.93 KVAr, 11 kv, 1 Ph, Al winded series reactor	Set	1	54887.00	54887.00
10	Earthing Sets H.T	L.S.	17	335.51	5703.67

	Cost of material		**672955.23**
1	Transportation on material	4.00%	26918
2	T&P on material cost	1.00%	6730
3	Contigencies on material	0.50%	3365
5	Erection cost on material	5.00%	33648
6	Contractor supervision charges on material	5.00%	33648
7	Insurance , Labour & Finance Cost	2.50%	16824
	Service Cost		**121132**
	Sub-Total		**794087**
8	Turnkey Charges	4.00%	31763
	Total		**825851**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1052637	825851
Total Cost of the Estimate	1052637	825851

Cost data of Structure for 11 KVStation Capacitor Bank

Sr.No.	**Description of Material**	**Unit**	**Qty.**	**RT/U Rs.**	**Amt.Rs.**
1	Structure for 11 KV CT	Kg.	50	50.78	2539.00
2	Structure for 11 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Breaker and Capacitors	Kg.	360	50.78	18280.80
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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CIN: U40109MH2005SGC153645

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	9900.00	9900.00
2	11 kV, Single phase, outdoor NCT	Nos.	1	13000.00	13000.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	13400.00	40200.00
3	3.0 MVAr, 11 kV Capacitor Bank	Set	1	291765.00	291765.00
4	11KV A.B. Switch	Nos.	1	8400.00	8400.00
2	11 KV Isolators with EB (800 A)	Set	1	26000.00	26000.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	22400.00	22400.00
6	11 KV VCB 800 A Outdoor	Set	1	145000.00	145000.00
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31177.38	31177.38
8	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	75556.18	75556.18
9	2.42 KVAr, 11 kv, 1 Ph, Al winded series reactor	Set	1	89552.00	89552.00
10	Earthing Sets H.T	L.S.	17	335.51	5703.67

	Cost of material		**758654.23**
1	Transportation on material	4.00%	30346
2	T&P on material cost	1.00%	7587
3	Contigencies on material	0.50%	3793
5	Erection cost on material	5.00%	37933
6	Contractor supervision charges on material	5.00%	37933
7	Insurance , Labour & Finance Cost	2.50%	18966
	Service Cost		**136558**
	Sub-Total		**895212**
8	Turnkey Charges	4.00%	35808
	Total		**931020**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1186687	931020
Total Cost of the Estimate	1186687	931020

Cost data of Structure for 11 KVStation Capacitor Bank

Sr.No.	**Description of Material**	**Unit**	**Qty.**	**RT/U Rs.**	**Amt.Rs.**
1	Structure for 11 KV CT	Kg.	50	50.78	2539.00
2	Structure for 11 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Breaker and Capacitors	Kg.	360	50.78	18280.80
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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CIN: U40109MH2005SGC153645

Item Code No. 1706					
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	9900.00	9900.00
2	11 kV, Single phase, outdoor NCT	Nos.	1	13000.00	13000.00
	11 KV CT 400 - 200 / 5 - 5 Outdoor	Nos.	3	13400.00	40200.00
3	3.0 MVAr, 11 kV Capacitor Bank	Set	1	291765.00	291765.00
4	11KV A.B. Switch	Nos.	1	8400.00	8400.00
2	11 KV Isolators with EB (800 A)	Set	1	26000.00	26000.00
5	11 KV Isolators without EB (800 Amp.)	Set	1	22400.00	22400.00
6	11 KV VCB 800 A Outdoor	Set	1	145000.00	145000.00
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	43015.38	43015.38
8	C&R Panel for 11 kV Outgoing Feeder OD	Nos.	1	75556.18	75556.18
9	72 kVAr, 11 kV series reactor	Set	1	265962.00	265962.00
10	Earthing Sets H.T	L.S.	17	335.51	5703.67

	Cost of material		**946902.23**
1	Transportation on material	4.00%	37876
2	T&P on material cost	1.00%	9469
3	Contigencies on material	0.50%	4735
5	Erection cost on material	5.00%	47345
6	Contractor supervision charges on material	5.00%	47345
7	Insurance , Labour & Finance Cost	2.50%	23673
	Service Cost		**170442**
	Sub-Total		**1117345**
8	Turnkey Charges	4.00%	44694
	Total		**1162038**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1481144	1162038
Total Cost of the Estimate	1481144	1162038

Cost data of Structure for 11 KVStation Capacitor Bank

Sr.No.	**Description of Material**	**Unit**	**Qty.**	**RT/U Rs.**	**Amt.Rs.**
1	Structure for 11 KV CT	Kg.	50	50.78	2539.00
2	Structure for 11 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Breaker and Capacitors	Kg.	360	50.78	18280.80
4	Structure for Series Reactor(set)	L.S.	1	11838.00	11838.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**43015.38**

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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	11467.00	11467.00
2	22 kV, Single phase, outdoor NCT	Nos.	1	18000.00	18000.00
3	22 KV C.T. Three core.	Nos.	3	24964.00	74892.00
4	1.2 MVAr, 22 kV Capacitor Bank	Set	1	219315.00	219315.00
5	22KV A.B.Switch	Nos.	1	12050.00	12050.00
6	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
7	22 KV Isolators without EB (800 Amp.)	Set	1	39000.00	39000.00
8	22 KV VCB complete 800 Amp (O.D.)	Set	1	149777.68	149777.68
9	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31177.38	31177.38
10	C&R panel for 22 KV feeder breaker	Nos.	1	75556.18	75556.18
11	0.48 KVAr, 22 kv, 1 Ph, Al winded series reactor	Set	1	92133.00	92133.00
12	Earthing Sets H.T	L.S.	17	335.51	5703.67

	Cost of material		**772672**
1	Transportation on material	4.00%	30907
2	T&P on material cost	1.00%	7727
3	Contigencies on material	0.50%	3863
5	Erection cost on material	5.00%	38634
6	Contractor supervision charges on material	5.00%	38634
7	Insurance , Labour & Finance Cost	2.50%	19317
	Service Cost		**139081**
	Sub-Total		**911753**
8	Turnkey Charges	4.00%	36470
	Total		**948223**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1208613	948223
Total Cost of the Estimate	1208613	948223

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	50.78	2539.00
2	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Breaker and Capacitors	Kg.	360	50.78	18280.80
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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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	11467.00	11467.00
2	22 kV, Single phase, outdoor NCT	Nos.	1	18000.00	18000.00
3	22 KV C.T. Three core.	Nos.	3	24964.00	74892.00
4	2.4 MVAr, 22 kV Capacitor Bank	Set	1	302434.00	302434.00
5	22KV A.B.Switch	Nos.	1	12050.00	12050.00
6	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
7	22 KV Isolators without EB (800 Amp.)	Set	1	39000.00	39000.00
8	22 KV VCB complete 800 Amp (O.D.)	Set	1	149777.68	149777.68
9	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31177.38	31177.38
10	C&R panel for 22 KV feeder breaker	Nos.	1	75556.18	75556.18
11	0.97 KVAr, 22 kv, 1 Ph, Al winded series reactor	Set	1	120173.00	120173.00
12	Earthing Sets H.T	L.S.	17	335.51	5703.67

	Cost of material		**883830.91**
1	Transportation on material	4.00%	35353
2	T&P on material cost	1.00%	8838
3	Contigencies on material	0.50%	4419
5	Erection cost on material	5.00%	44192
6	Contractor supervision charges on material	5.00%	44192
7	Insurance , Labour & Finance Cost	2.50%	22096
	Service Cost		**159090**
	Sub-Total		**1042920**
8	Turnkey Charges	4.00%	41717
	Total		**1084637**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1382488	1084637
Total Cost of the Estimate	1382488	1084637

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	50.78	2539.00
2	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Breaker and Capacitors	Kg.	360	50.78	18280.80
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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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	11467.00	11467.00
2	22 kV, Single phase, outdoor NCT	Nos.	1	18000.00	18000.00
	22 KV C.T. Three core.	Nos.	3	24964.00	74892.00
3	3.0 MVAr, 22 kV Capacitor Bank	Set	1	405582.00	405582.00
4	22KV A.B.Switch	Nos.	1	12050.00	12050.00
2	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
5	22 KV Isolators without EB (800 Amp.)	Set	1	39000.00	39000.00
6	22 KV VCB complete 800 Amp (O.D.)	Set	1	149777.68	149777.68
7	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	31177.38	31177.38
8	C&R panel for 22 KV feeder breaker	Nos.	1	75556.18	75556.18
9	1.32 KVAr, 22 kv, 1 Ph, Al winded series reactor	Set	1	144207.00	144207.00
10	Earthing Sets H.T	L.S.	17	335.51	5703.67

	Cost of material		**1011012.91**
1	Transportation on material	4.00%	40441
2	T&P on material cost	1.00%	10110
3	Contigencies on material	0.50%	5055
5	Erection cost on material	5.00%	50551
6	Contractor supervision charges on material	5.00%	50551
7	Insurance , Labour & Finance Cost	2.50%	25275
	Service Cost		**181982**
	Sub-Total		**1192995**
8	Turnkey Charges	4.00%	47720
	Total		**1240715**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	1581426	1240715
Total Cost of the Estimate	1581426	1240715

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	50.78	2539.00
2	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Breaker and Capacitors	Kg.	360	50.78	18280.80
4	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**31177.38**

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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	11467.00	11467.00
2	22 kV, Single phase, outdoor NCT	Nos.	1	18000.00	18000.00
3	22 KV C.T. Three core.	Nos.	3	24964.00	74892.00
4	3.0 MVAr, 22 kV Capacitor Bank	Set	1	405582.00	405582.00
5	22KV A.B.Switch	Nos.	1	12050.00	12050.00
6	22 KV Isolators with EB (800 A)	Set	1	43600.00	43600.00
7	22 KV Isolators without EB (800 Amp.)	Set	1	39000.00	39000.00
8	22 KV VCB complete 800 Amp (O.D.)	Set	1	149777.68	149777.68
9	Structure , clamps, painting etc. as per sht. No. 1	L.S.	1	51136.38	51136.38
10	C&R panel for 22 KV feeder breaker	Nos.	1	75556.18	75556.18
11	79.2 kVAr, 22 kV series reactor	Set	1	435625.00	435625.00
12	Earthing Sets H.T	L.S.	17	335.51	5703.67

	Cost of material		**1322389.91**
1	Transportation on material	4.00%	52896
2	T&P on material cost	1.00%	13224
3	Contigencies on material	0.50%	6612
5	Erection cost on material	5.00%	66119
6	Contractor supervision charges on material	5.00%	66119
7	Insurance , Labour & Finance Cost	2.50%	33060
	Service Cost		**238030**
	Sub-Total		**1560420**
8	Turnkey Charges	4.00%	62417
	Total		**1622837**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	2068482	1622837
Total Cost of the Estimate	2068482	1622837

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	50.78	2539.00
2	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
3	Structure for Breaker and Capacitors	Kg.	360	50.78	18280.80
4	Structure for Series Reactor(set) 22 kV	L.S.	1	19959.00	19959.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**51136.38**

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Item Code No. 2001					
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	28750.00	28750.00
2	Earthing with GI pipe	No	2	268.81	537.62
3	G.I.Strip (25 X 3 mm)	KG	2	64.78	129.56
4	Sundries	L. S.	1	770.00	770.00
5	Concreting ration 1:4:8	L. S.	1	2596.08	2596.08
	Cost of material				**32783.26**
1	Transportation on material	4.00%			1311
2	T&P on material cost	1.00%			328
3	Contigencies on material	0.50%			164
5	Erection cost on material	15.00%			4917
6	Contractor supervision charges on material	5.00%			1639
7	Insurance , Labour & Finance Cost	2.50%			820
	Service Cost				**9179**
	Sub-Total				**41963**
8	Turnkey Charges	4.00%			1679
	Total				**43641**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	55486	43641
Total Cost of the Estimate	55486	43641

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Item Code No. 2001A					
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	36500.00	36500.00
2	Earthing with GI pipe	No	2	268.81	537.62
3	G.I.Strip (25 X 3 mm)	KG	2	64.78	129.56
4	Sundries	L. S.	1	770.00	770.00
5	Concreting ration 1:4:8	L. S.	1	2596.08	2596.08
	Cost of material				**40533.26**
1	Transportation on material	4.00%			1621
2	T&P on material cost	1.00%			405
3	Contigencies on material	0.50%			203
5	Erection cost on material	15.00%			6080
6	Contractor supervision charges on material	5.00%			2027
7	Insurance , Labour & Finance Cost	2.50%			1013
	Service Cost				**11349**
	Sub-Total				**51883**
8	Turnkey Charges	4.00%			2075
	Total				**53958**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	68603	53958
Total Cost of the Estimate	68603	53958

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Item Code No. 2002					
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	22000.00	22000.00
2	Earthing with GI pipe	No	2	268.81	537.62
3	G.I.Strip (25 X 3 mm)	kG	2	64.78	129.56
4	Sundries		1	770.00	770.00
5	Concreting ration 1:4:8	L. S.	1	2596.08	2596.08
	Cost of material				**26033.26**
1	Transportation on material	4.00%			1041
2	T&P on material cost	1.00%			260
3	Contigencies on material	0.50%			130
5	Erection cost on material	15.00%			3905
6	Contractor supervision charges on material	5.00%			1302
7	Insurance , Labour & Finance Cost	2.50%			651
	Service Cost				**7289**
	Sub-Total				**33323**
8	Turnkey Charges	4.00%			1333
	Total				**34655**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	44061	34655
Total Cost of the Estimate	44061	34655

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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 Feedar Pillar	No	1	8400.00	8400.00
2	Earthing with GI pipe	No	2	268.81	537.62
3	G.I.Strip (25 X 3 mm)	kG	2	64.78	129.56
4	Sundries		1	770.00	770.00
5	Concreting ration 1:4:8	L. S.	1	2596.08	2596.08
	Cost of material				**12433.26**
1	Transportation on material	4.00%			497
2	T&P on material cost	1.00%			124
3	Contigencies on material	0.50%			62
5	Erection cost on material	15.00%			1865
6	Contractor supervision charges on material	5.00%			622
7	Insurance , Labour & Finance Cost	2.50%			311
	Service Cost				**3481**
	Sub-Total				**15915**
8	Turnkey Charges	4.00%			637
	Total				**16551**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	21043	16551
Total Cost of the Estimate	21043	16551

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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 mm2	Rmt	3150	50.80	160020.00
2	RSJ 152x152, 10 m long	no	4	16261.00	65044.00
3	MS Channel 100x50x6 mm	Kg.	108	50.78	5484.24
4	MS angle 50x50x6 mm	Kg.	71	50.78	3605.38
5	M.S. Flats(50 X 10mm)	Kg.	45	47.55	2139.75
6	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
7	Tension Hardware for 100 sq.mm Conductor.	No.	6	341.00	2046.00
8	33 kV Pin Insulators with G.I. Pins	No.	12	541.38	6496.53
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	56.27	900.32
10	Sleve Joints	No.	3	115.21	345.63
11	Danger Board in yard.	No.	4	50.00	200.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Concreting ration 1:4:8	cmt.	2	2596.08	5192.16
14	G.I.Barbed Wire `A' type.	Kg.	15	63.01	945.15
15	Black Bituminus Paint	Ltr.	6	60.00	360.00
16	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
17	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
19	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**274389.66**

1	Transportation on material	4.00%	10976
2	T&P on material cost	1.00%	2744
3	Contigencies on material	0.50%	1372
5	Erection cost on material	15.00%	41158
6	Contractor supervision charges on material	5.00%	13719
7	Insurance , Labour & Finance Cost	2.50%	6860
	Service Cost		**76829**
	Sub-Total		**351219**
8	Turnkey Charges	4.00%	14049
	Total		**365268**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	464405	365268
Total Cost of the Estimate	464405	365268

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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	124.91	387221.00
2	RSJ 152x152, 13 m long	no	4	21139.00	84556.00
3	G.I.Channel 100x50x6mm	Kg.	108	64.78	6996.24
4	G.I.Angle 50x50x6mm	Kg.	71	64.78	4599.38
5	G.I Flat 50x10 mm	Kg.	45	61.55	2769.75
6	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
7	Strain Hardware for AAAC232 sq.mm.	No.	6	602.56	3615.36
8	33 kV Pin Insulators with G.I. Pins	No.	12	541.38	6496.53
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	56.27	900.32
10	Sleve Joints	No.	3	115.21	345.63
11	Danger Board in yard.	No.	4	50.00	200.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Concreting ration 1:4:8	cmt.	2	2596.08	5192.16
14	G.I.Barbed Wire `A' type.	Kg.	15	63.01	945.15
15	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
16	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	18	718.19	12927.46
	Cost of material				**522923.90**

1	Transportation on material	4.00%	20917
2	T&P on material cost	1.00%	5229
3	Contigencies on material	0.50%	2615
5	Erection cost on material	15.00%	78439
6	Contractor supervision charges on material	5.00%	26146
7	Insurance , Labour & Finance Cost	2.50%	13073
	Service Cost		**146419**
	Sub-Total		**669343**
8	Turnkey Charges	4.00%	26774
	Total		**696116**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	885049	696116
Total Cost of the Estimate	885049	696116

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Item Code No. 5103					
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	1640.80	1640800.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	33 kV Heat shrik Straight through joint (Al) kit for XLPE 3 C X 300 sqmm	Kit	4.00	36899.71	147598.84
5	33 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	Kit	2.00	19027.95	38055.90
6	Sand	Cmt	250.00	210.13	52532.50
7	Sundries	LS	1.00	770.00	770.00
	Cost of material				**1989357.24**
1	Transportation on material	4.00%			79574
2	T&P on material cost	1.00%			19894
3	Contigencies on material	0.50%			9947
5	Erection cost on material	15.00%			298404
6	Contractor supervision charges on material	5.00%			99468
7	Insurance , Labour & Finance Cost	2.50%			49734
	Service Cost				**557020**
	Sub-Total				**2546377**
8	Turnkey Charges	4.00%			101855
	Total				**2648232**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3366987	2648232
Total Cost of the Estimate	3366987	2648232

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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	19027.95	19027.95
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**19797.95**

1	Transportation on material	4.00%	792
2	T&P on material cost	1.00%	198
3	Contigencies on material	0.50%	99
5	Erection cost on material	15.00%	2970
6	Contractor supervision charges on material	5.00%	990
7	Insurance , Labour & Finance Cost	2.50%	495
	Service Cost		**5543**
	Sub-Total		**25341**
8	Turnkey Charges	4.00%	1014
	Total		**26355**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	33508	26355
Total Cost of the Estimate	33508	26355

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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 (Al) kit for XLPE 3 C X 300 sqmm	No	1	14144.89	14144.89
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**14914.89**

1	Transportation on material	4.00%	597
2	T&P on material cost	1.00%	149
3	Contigencies on material	0.50%	75
5	Erection cost on material	15.00%	2237
6	Contractor supervision charges on material	5.00%	746
7	Insurance , Labour & Finance Cost	2.50%	373
	Service Cost		**4176**
	Sub-Total		**19091**
8	Turnkey Charges	4.00%	764
	Total		**19855**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	25243	19855
Total Cost of the Estimate	25243	19855

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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 (Al) kit for XLPE 3 C X 300 sqmm	No	1	36899.71	36899.71
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**37669.71**

1	Transportation on material	4.00%	1507
2	T&P on material cost	1.00%	377
3	Contigencies on material	0.50%	188
5	Erection cost on material	15.00%	5650
6	Contractor supervision charges on material	5.00%	1883
7	Insurance , Labour & Finance Cost	2.50%	942
	Service Cost		**10548**
	Sub-Total		**48217**
8	Turnkey Charges	4.00%	1929
	Total		**50146**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	63756	50146
Total Cost of the Estimate	63756	50146

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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 mm2	Rmt	3150	50.80	160020.00
2	RSJ 152x152, 10 m long	no	4	16261.00	65044.00
3	MS Channel 100x50x6 mm	Kg.	108	50.78	5484.24
4	MS angle 50x50x6 mm	Kg.	71	50.78	3605.38
5	M.S. Flats(50 X 10mm)	Kg.	45	47.55	2139.75
6	Disc Insulator 11 KV 7000 KG.	No.	12	344.48	4133.76
7	Tension Hardware for 100 sq.mm Conductor.	No.	6	341.00	2046.00
8	22 kV Pin Insulators with G.I. Pins	No.	12	335.98	4031.71
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	56.27	900.32
10	Sleve Joints	No.	3	115.21	345.63
11	Danger Board in yard.	No.	4	50.00	200.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Concreting ration 1:4:8	cmt.	2	2596.08	5192.16
14	G.I.Barbed Wire `A' type.	Kg.	15	63.01	945.15
15	Black Bituminus Paint	Ltr.	6	60.00	360.00
16	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
17	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
19	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**273991.72**

1	Transportation on material	4.00%	10960
2	T&P on material cost	1.00%	2740
3	Contigencies on material	0.50%	1370
5	Erection cost on material	15.00%	41099
6	Contractor supervision charges on material	5.00%	13700
7	Insurance , Labour & Finance Cost	2.50%	6850
	Service Cost		**76718**
	Sub-Total		**350709**
8	Turnkey Charges	4.00%	14028
	Total		**364738**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	463731	364738
Total Cost of the Estimate	463731	364738

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MSEDCL

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	28.00	88200.00
2	RSJ 152x152, 10 m long	no	4	16261.00	65044.00
3	MS Channel 100x50x6 mm	Kg.	108	50.78	5484.24
4	MS angle 50x50x6 mm	Kg.	71	50.78	3605.38
5	M.S. Flats(50 X 10mm)	Kg.	45	47.55	2139.75
6	Disc Insulator 11 KV 7000 KG.	No.	12	344.48	4133.76
7	Tension Hardware for 100 sq.mm Conductor.	No.	6	341.00	2046.00
8	22 kV Pin Insulators with G.I. Pins	No.	12	335.98	4031.71
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	56.27	900.32
10	Sleve Joints	No.	3	115.21	345.63
11	Danger Board in yard.	No.	4	50.00	200.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Concreting ration 1:4:8	cmt.	2	2596.08	5192.16
14	G.I.Barbed Wire `A' type.	Kg.	15	63.01	945.15
15	Black Bituminus Paint	Ltr.	6	60.00	360.00
16	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
17	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
19	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**191504.20**

1	Transportation on material	4.00%	7660
2	T&P on material cost	1.00%	1915
3	Contigencies on material	0.50%	958
5	Erection cost on material	15.00%	28726
6	Contractor supervision charges on material	5.00%	9575
7	Insurance , Labour & Finance Cost	2.50%	4788
	Service Cost		**53621**
	Sub-Total		**245125**
8	Turnkey Charges	4.00%	9805
	Total		**254930**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	324121	254930
Total Cost of the Estimate	324121	254930

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

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	124.91	393466.50
2	RSJ 152x152, 13 m long	no	4	21139.00	84556.00
3	MS Channel 100x50x6 mm	Kg.	108	50.78	5484.24
4	MS angle 50x50x6 mm	Kg.	71	50.78	3605.38
5	M.S. Flats(50 X 10mm)	Kg.	45	47.55	2139.75
6	Disc Insulator 11 KV 7000 KG.	No.	12	344.48	4133.76
7	Tension Hardware for 200 sq.mm Conductor.	No.	6	590.00	3540.00
8	22 kV Pin Insulators with G.I. Pins	No.	12	335.98	4031.71
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	16	56.27	900.32
10	Sleve Joints	No.	3	115.21	345.63
11	Danger Board in yard.	No.	4	50.00	200.00
12	Earthing Sets H.T	No.	4	335.51	1342.04
13	Concreting ration 1:4:8	cmt.	2	2596.08	5192.16
14	G.I.Barbed Wire `A' type.	Kg.	15	63.01	945.15
15	Black Bituminus Paint	Ltr.	6	60.00	360.00
16	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
17	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
18	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
19	Wedge connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	No	24	718.19	17236.61
	Cost of material				**532274.62**

1	Transportation on material	4.00%	21291
2	T&P on material cost	1.00%	5323
3	Contigencies on material	0.50%	2661
5	Erection cost on material	15.00%	79841
6	Contractor supervision charges on material	5.00%	26614
7	Insurance , Labour & Finance Cost	2.50%	13307
	Service Cost		**149037**
	Sub-Total		**681312**
8	Turnkey Charges	4.00%	27252
	Total		**708564**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	900875	708564
Total Cost of the Estimate	900875	708564

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Item Code No. 5205					
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	1409.00	1409000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	22 kV Heat shrik Straight through joint (Al) kit for XLPE 3 C X 300 sqmm	Kit	4.00	24599.81	98399.24
5	22 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	Kit	2.00	13714.39	27428.78
6	Sand	Cmt	250.00	210.13	52532.50
7	Sundries	LS	1.00	770.00	770.00
	Cost of material				**1697730.52**
1	Transportation on material	4.00%			67909
2	T&P on material cost	1.00%			16977
3	Contigencies on material	0.50%			8489
5	Erection cost on material	15.00%			254660
6	Contractor supervision charges on material	5.00%			84887
7	Insurance , Labour & Finance Cost	2.50%			42443
	Service Cost				**475365**
	Sub-Total				**2173095**
8	Turnkey Charges	4.00%			86924
	Total				**2260019**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2873409	2260019
Total Cost of the Estimate	2873409	2260019

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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	13714.39	13714.39
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**14484.39**

1	Transportation on material	4.00%	579
2	T&P on material cost	1.00%	145
3	Contigencies on material	0.50%	72
5	Erection cost on material	15.00%	2173
6	Contractor supervision charges on material	5.00%	724
7	Insurance , Labour & Finance Cost	2.50%	362
	Service Cost		**4056**
	Sub-Total		**18540**
8	Turnkey Charges	4.00%	742
	Total		**19282**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	24515	19282
Total Cost of the Estimate	24515	19282

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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 (Al) kit for XLPE 3 C X 300 sqmm	No	1	12873.69	12873.69
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**13643.69**

1	Transportation on material	4.00%	546
2	T&P on material cost	1.00%	136
3	Contigencies on material	0.50%	68
5	Erection cost on material	15.00%	2047
6	Contractor supervision charges on material	5.00%	682
7	Insurance , Labour & Finance Cost	2.50%	341
	Service Cost		**3820**
	Sub-Total		**17464**
8	Turnkey Charges	4.00%	699
	Total		**18162**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	23092	18162
Total Cost of the Estimate	23092	18162

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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 (Al) kit for XLPE 3 C X 300 sqmm	No	1	24599.81	24599.81
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**25369.81**

1	Transportation on material	4.00%	1015
2	T&P on material cost	1.00%	254
3	Contigencies on material	0.50%	127
5	Erection cost on material	15.00%	3805
6	Contractor supervision charges on material	5.00%	1268
7	Insurance , Labour & Finance Cost	2.50%	634
	Service Cost		**7104**
	Sub-Total		**32473**
8	Turnkey Charges	4.00%	1299
	Total		**33772**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	42938	33772
Total Cost of the Estimate	42938	33772

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CIN: U40109MH2005SGC153645

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	10081.00	40324.00
2	MS Channel 100x50x6 mm	Kg.	13	50.78	660.14
3	M.S.Channel 75x40x6 mm	Kg.	119	50.78	6042.82
4	MS angle 50x50x6 mm	Kg.	16	50.78	812.48
5	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
6	11 kV Pin Insulators with G.I. Pins	No.	12	135.11	1621.26
7	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
8	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	6	321.66	1929.96
9	AAAC 100 mm2	Rmt	3150.00	50.80	160020.00
10	Earthing Sets H.T	Set	4	335.51	1342.04
11	G.I.Barbed Wire `A' type.	Kg.	16	63.01	1008.16
12	Danger Board in yard.	No.	4	50.00	200.00
13	Concreting ration 1:4:8	Cmt.	3	2596.08	7788.25
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	20	56.27	1125.40
15	Black Bituminus Paint	Ltr.	6	60.00	360.00
16	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
17	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
18	Painting/Hardware & support with numbering of pole	LS	1	219.57	219.57
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
20	Wedge connectors				
a)	DOG TO DOG or equivalent AAAC	No	24	558.59	13406.21
	Cost of material				**245481.89**

1	Transportation on material	4.00%	9819
2	T&P on material cost	1.00%	2455
3	Contigencies on material	0.50%	1227
5	Erection cost on material	15.00%	36822
6	Contractor supervision charges on material	5.00%	12274
7	Insurance , Labour & Finance Cost	2.50%	6137
	Service Cost		**68735**
	Sub-Total		**314217**
8	Turnkey Charges	4.00%	12569
	Total		**326785**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	415478	326785
Total Cost of the Estimate	415478	326785

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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	10081.00	40324.00
2	MS Channel 100x50x6 mm	Kg.	13	50.78	660.14
3	M.S.Channel 75x40x6 mm	Kg.	119	50.78	6042.82
4	MS angle 50x50x6 mm	Kg.	16	50.78	812.48
5	M.S. Flats(50 X 10mm)	Kg.	37	47.55	1759.35
6	11 kV Pin Insulators with G.I. Pins	No.	12	135.11	1621.26
7	Disc Insulator 11 KV 7000 KG.	No.	6	344.48	2066.88
8	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	6	321.66	1929.96
9	AAAC 55 mm^2	Rmt	3150.00	28.00	88200.00
10	Earthing Sets H.T	Set	4	335.51	1342.04
11	G.I.Barbed Wire `A' type.	Kg.	16	63.01	1008.16
12	Danger Board in yard.	No.	4	50.00	200.00
13	Concreting ration 1:4:8	Cmt.	3	2596.08	7788.25
14	G.I.Wire 8 SWG/ 6 SWG	Kg.	20	56.27	1125.40
15	Black Bituminus Paint	Ltr.	6	60.00	360.00
16	Red Oxide Paint for 2 coats	Ltr.	20	60.00	1200.00
17	Aluminium Paint for 1 coat	Ltr.	9	93.93	845.37
18	Painting/Hardware & support with numbering of pole	LS	1	219.57	219.57
19	Sundries such as N/B, Washers, Welding etc.	LS	1	2750.00	2750.00
20	Wedge connectors				
a)	RABIT To RABIT or equivalent AAAC	No	24	114.11	2738.69
	Cost of material				**162994.37**

1	Transportation on material	4.00%	6520
2	T&P on material cost	1.00%	1630
3	Contigencies on material	0.50%	815
5	Erection cost on material	15.00%	24449
6	Contractor supervision charges on material	5.00%	8150
7	Insurance , Labour & Finance Cost	2.50%	4075
	Service Cost		**45638**
	Sub-Total		**208633**
8	Turnkey Charges	4.00%	8345
	Total		**216978**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	275868	216978
Total Cost of the Estimate	275868	216978

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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	636.67	636670.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	Kit	4.00	4181.97	16727.88
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	Kit	2.00	1458.10	2916.20
6	Sand	Cmt	250.00	210.13	52532.50
7	Sundries	LS	1	770.00	770.00
	Cost of Material				**819216.58**

1	Transportation on material	4.00%	32769
2	T&P on material cost	1.00%	8192
3	Contigencies on material	0.50%	4096
5	Erection cost on material	15.00%	122882
6	Contractor supervision charges on material	5.00%	40961
7	Insurance , Labour & Finance Cost	2.50%	20480
	Service Cost		**229381**
	Sub-Total		**1048597**
8	Turnkey Charges	4.00%	41944
	Total		**1090541**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1386524	1090541
Total Cost of the Estimate	1386524	1090541

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Item Code No. 5317					
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	794.00	794000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	Kit	4.00	1458.10	5832.40
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 120 sqmm	Kit	2.00	1906.49	3812.98
6	Sand	Cmt	250.00	210.13	52532.50
7	Sundries	LS	1	770.00	770.00
	Cost of Material				**966547.88**

1	Transportation on material	4.00%	38662
2	T&P on material cost	1.00%	9665
3	Contigencies on material	0.50%	4833
5	Erection cost on material	15.00%	144982
6	Contractor supervision charges on material	5.00%	48327
7	Insurance , Labour & Finance Cost	2.50%	24164
	Service Cost		**270633**
	Sub-Total		**1237181**
8	Turnkey Charges	4.00%	49487
	Total		**1286669**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1635882	1286669
Total Cost of the Estimate	1635882	1286669

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Item Code No. 5318					
Replacement of old HT cable by new XLPE cable size 11 kV, 3 C, 240 sq. mm.					
Sr.No.	**Description**	**Unit**	**Qty.**	**Rate**	**Amount**
1	XLPE Cable 11 KV, 3 C / 240 mm sq.	mtr	1000	982.46	982460.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 240 sqmm	Kit	4.00	5288.96	21155.84
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 240 sqmm	Kit	2.00	2029.48	4058.96
6	Sand	Cmt	250.00	210.13	52532.50
3	Sundries	LS	1	770.00	770.00
	Cost of Material				**1170577.30**

1	Transportation on material	4.00%	46823
2	T&P on material cost	1.00%	11706
3	Contigencies on material	0.50%	5853
5	Erection cost on material	15.00%	175587
6	Contractor supervision charges on material	5.00%	58529
7	Insurance , Labour & Finance Cost	2.50%	29264
	Service Cost		**327762**
	Sub-Total		**1498339**
8	Turnkey Charges	4.00%	59934
	Total		**1558273**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1981202	1558273
Total Cost of the Estimate	1981202	1558273

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Item Code No. 5319					
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	1130.43	1130430.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 300 sqmm	Kit	4.00	5288.96	21155.84
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	Kit	2.00	2029.48	4058.96
6	Sand	Cmt	250.00	210.13	52532.50
7	Sundries	LS	1.00	770.00	770.00
	Cost of material				**1318547.30**
1	Transportation on material	4.00%			52742
2	T&P on material cost	1.00%			13185
3	Contigencies on material	0.50%			6593
5	Erection cost on material	15.00%			197782
6	Contractor supervision charges on material	5.00%			65927
7	Insurance , Labour & Finance Cost	2.50%			32964
	Service Cost				**369193**
	Sub-Total				**1687741**
8	Turnkey Charges	4.00%			67510
	Total				**1755250**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2231641	1755250
Total Cost of the Estimate	2231641	1755250

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CIN: U40109MH2005SGC153645

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	1458.10	1458.10
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**2228.10**

1	Transportation on material	4.00%	89
2	T&P on material cost	1.00%	22
3	Contigencies on material	0.50%	11
5	Erection cost on material	15.00%	334
6	Contractor supervision charges on material	5.00%	111
7	Insurance , Labour & Finance Cost	2.50%	56
	Service Cost		**624**
	Sub-Total		**2852**
8	Turnkey Charges	4.00%	114
	Total		**2966**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3771	2966
Total Cost of the Estimate	3771	2966

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CIN: U40109MH2005SGC153645

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	1906.49	1906.49
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**2676.49**

1	Transportation on material	4.00%	107
2	T&P on material cost	1.00%	27
3	Contigencies on material	0.50%	13
5	Erection cost on material	15.00%	401
6	Contractor supervision charges on material	5.00%	134
7	Insurance , Labour & Finance Cost	2.50%	67
	Service Cost		**749**
	Sub-Total		**3426**
8	Turnkey Charges	4.00%	137
	Total		**3563**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	4530	3563
Total Cost of the Estimate	4530	3563

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	2029.48	2029.48
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**2799.48**

1	Transportation on material	4.00%	112
2	T&P on material cost	1.00%	28
3	Contigencies on material	0.50%	14
5	Erection cost on material	15.00%	420
6	Contractor supervision charges on material	5.00%	140
7	Insurance , Labour & Finance Cost	2.50%	70
	Service Cost		**784**
	Sub-Total		**3583**
8	Turnkey Charges	4.00%	143
	Total		**3727**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	4738	3727
Total Cost of the Estimate	4738	3727

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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	2029.48	2029.48
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**2799.48**

1	Transportation on material	4.00%	112
2	T&P on material cost	1.00%	28
3	Contigencies on material	0.50%	14
5	Erection cost on material	15.00%	420
6	Contractor supervision charges on material	5.00%	140
7	Insurance , Labour & Finance Cost	2.50%	70
	Service Cost		**784**
	Sub-Total		**3583**
8	Turnkey Charges	4.00%	143
	Total		**3727**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	4738	3727
Total Cost of the Estimate	4738	3727

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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	1168.49	1168.49
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**1938.49**

1	Transportation on material	4.00%	78
2	T&P on material cost	1.00%	19
3	Contigencies on material	0.50%	10
5	Erection cost on material	15.00%	291
6	Contractor supervision charges on material	5.00%	97
7	Insurance , Labour & Finance Cost	2.50%	48
	Service Cost		**543**
	Sub-Total		**2481**
8	Turnkey Charges	4.00%	99
	Total		**2581**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3281	2581
Total Cost of the Estimate	3281	2581

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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	1537.49	1537.49
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**2307.49**

1	Transportation on material	4.00%	92
2	T&P on material cost	1.00%	23
3	Contigencies on material	0.50%	12
5	Erection cost on material	15.00%	346
6	Contractor supervision charges on material	5.00%	115
7	Insurance , Labour & Finance Cost	2.50%	58
	Service Cost		**646**
	Sub-Total		**2954**
8	Turnkey Charges	4.00%	118
	Total		**3072**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3905	3072
Total Cost of the Estimate	3905	3072

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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	1581.10	1581.10
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**2351.10**

1	Transportation on material	4.00%	94
2	T&P on material cost	1.00%	24
3	Contigencies on material	0.50%	12
5	Erection cost on material	15.00%	353
6	Contractor supervision charges on material	5.00%	118
7	Insurance , Labour & Finance Cost	2.50%	59
	Service Cost		**658**
	Sub-Total		**3009**
8	Turnkey Charges	4.00%	120
	Total		**3130**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3979	3130
Total Cost of the Estimate	3979	3130

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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	1661.61	1661.61
2	Sundries	LS	1	770.00	770.00
	Cost of Material				**2431.61**

1	Transportation on material	4.00%	97
2	T&P on material cost	1.00%	24
3	Contigencies on material	0.50%	12
5	Erection cost on material	15.00%	365
6	Contractor supervision charges on material	5.00%	122
7	Insurance , Labour & Finance Cost	2.50%	61
	Service Cost		**681**
	Sub-Total		**3112**
8	Turnkey Charges	4.00%	124
	Total		**3237**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	4115	3237
Total Cost of the Estimate	4115	3237

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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	50.49	50490.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**90243.00**
1	Transportation on material	4.00%			3610
2	T&P on material cost	1.00%			902
3	Contigencies on material	0.50%			451
5	Erection cost on material	15.00%			13536
6	Contractor supervision charges on material	5.00%			4512
7	Insurance , Labour & Finance Cost	2.50%			2256
	Service Cost				**25268**
	Sub-Total				**115511**
8	Turnkey Charges	4.00%			4620
	Total				**120131**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	152736	120131
Total Cost of the Estimate	152736	120131

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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 cable120 sq.mm.	Rmt	1000	286.71	286710.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**326463.00**
1	Transportation on material	4.00%			13059
2	T&P on material cost	1.00%			3265
3	Contigencies on material	0.50%			1632
5	Erection cost on material	15.00%			48969
6	Contractor supervision charges on material	5.00%			16323
7	Insurance , Labour & Finance Cost	2.50%			8162
	Service Cost				**91410**
	Sub-Total				**417873**
8	Turnkey Charges	4.00%			16715
	Total				**434588**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	552539	434588
Total Cost of the Estimate	552539	434588

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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 mm2	Rmt	1000	558.30	558300.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**598053.00**
1	Transportation on material	4.00%			23922
2	T&P on material cost	1.00%			5981
3	Contigencies on material	0.50%			2990
5	Erection cost on material	15.00%			89708
6	Contractor supervision charges on material	5.00%			29903
7	Insurance , Labour & Finance Cost	2.50%			14951
	Service Cost				**167455**
	Sub-Total				**765508**
8	Turnkey Charges	4.00%			30620
	Total				**796128**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1012205	796128
Total Cost of the Estimate	1012205	796128

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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 mm2	Rmt	1000	659.26	659260.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**699013.00**
1	Transportation on material	4.00%			27961
2	T&P on material cost	1.00%			6990
3	Contigencies on material	0.50%			3495
5	Erection cost on material	15.00%			104852
6	Contractor supervision charges on material	5.00%			34951
7	Insurance , Labour & Finance Cost	2.50%			17475
	Service Cost				**195724**
	Sub-Total				**894737**
8	Turnkey Charges	4.00%			35789
	Total				**930526**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1183080	930526
Total Cost of the Estimate	1183080	930526

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Item Code No. 5409					
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 cable185 sq.mm.	Rmt	1000	424.97	424970.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**464723.00**
1	Transportation on material	4.00%			18589
2	T&P on material cost	1.00%			4647
3	Contigencies on material	0.50%			2324
5	Erection cost on material	15.00%			69708
6	Contractor supervision charges on material	5.00%			23236
7	Insurance , Labour & Finance Cost	2.50%			11618
	Service Cost				**130122**
	Sub-Total				**594845**
8	Turnkey Charges	4.00%			23794
	Total				**618639**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	786544	618639
Total Cost of the Estimate	786544	618639

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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	170.70	170700.00
2	R.C.C. Pipe 150 mm 2 M	No	30	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**210453.00**
1	Transportation on material	4.00%			8418
2	T&P on material cost	1.00%			2105
3	Contigencies on material	0.50%			1052
5	Erection cost on material	15.00%			31568
6	Contractor supervision charges on material	5.00%			10523
7	Insurance , Labour & Finance Cost	2.50%			5261
	Service Cost				**58927**
	Sub-Total				**269380**
8	Turnkey Charges	4.00%			10775
	Total				**280155**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	356192	280155
Total Cost of the Estimate	356192	280155

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Item Code No. 5501					
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	1640.80	1640800.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	33 kV Heat shrik Straight through joint (Al) kit for XLPE 3 C X 300 sqmm	No.	4.00	36899.71	147598.84
5	33 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	2.00	19027.95	38055.90
6	Sand	Cmt.	250.00	210.13	52532.50

	Cost of material		**1988587.24**
1	Transportation on material	4.00%	79543
2	T&P on material cost	1.00%	19886
3	Contigencies on material	0.50%	9943
5	Erection cost on material	15.00%	298288
6	Contractor supervision charges on material	5.00%	99429
7	Insurance , Labour & Finance Cost	2.50%	49715
	Service Cost		**556804**
	Sub-Total		**2545392**
8	Turnkey Charges	4.00%	101816
	Total		**2647207**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3365684	2647207
Total Cost of the Estimate	3365684	2647207

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Item Code No. 5502					
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	1409.00	1409000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	22 kV Heat shrik Straight through joint (Al) kit for XLPE 3 C X 300 sqmm	No.	4.00	24599.81	98399.24
5	22 kV Heat shrik Outdoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	2.00	13714.39	27428.78
6	Sand	Cmt	250.00	210.13	52532.50

	Cost of material		**1696960.52**
1	Transportation on material	4.00%	67878
2	T&P on material cost	1.00%	16970
3	Contigencies on material	0.50%	8485
5	Erection cost on material	15.00%	254544
6	Contractor supervision charges on material	5.00%	84848
7	Insurance , Labour & Finance Cost	2.50%	42424
	Service Cost		**475149**
	Sub-Total		**2172109**
8	Turnkey Charges	4.00%	86884
	Total		**2258994**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2872106	2258994
Total Cost of the Estimate	2872106	2258994

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Item Code No. 5503					
Cost Data for conversion of 1 Km 22 KV Overhead line by 3 C, 240 Sqmm XLPE under ground Cable					
Sr.No.	**Particulars**	**Unit**	**Qty.**	**RT/U Rs.**	**Amount**
1	XLPE Cable 22 KV, 3 C / 240 mm sq.	Rmt	1000.00	1149.61	1149610.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	22 KV Str Thr Joints for 240 Sqmm cable	No.	4.00	24599.81	98399.24
5	22 kV Heat shrik Indoor termination joint (Al) kit for XLPE 3 C X 240 sqmm	No.	2.00	9022.54	18045.08
6	Sand	Cmt	250.00	210.13	52532.50

	Cost of material		**1428186.82**
1	Transportation on material	4.00%	57127
2	T&P on material cost	1.00%	14282
3	Contigencies on material	0.50%	7141
5	Erection cost on material	15.00%	214228
6	Contractor supervision charges on material	5.00%	71409
7	Insurance , Labour & Finance Cost	2.50%	35705
	Service Cost		**399892**
	Sub-Total		**1828079**
8	Turnkey Charges	4.00%	73123
	Total		**1901202**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2417206	1901202
Total Cost of the Estimate	2417206	1901202

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Item Code No. 5504					
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	812.56	812560.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	22 KV st. through joints for 3 C / 95 mm sq.	No.	4.00	12076.27	48305.08
5	22 kV Heat shrik Indoor termination joint (Al) kit for XLPE 3 C X 95 sqmm	No.	2.00	9022.54	18045.08
6	Sand	Cmt	250.00	210.13	52532.50

	Cost of material		**1041042.66**
1	Transportation on material	4.00%	41642
2	T&P on material cost	1.00%	10410
3	Contigencies on material	0.50%	5205
5	Erection cost on material	15.00%	156156
6	Contractor supervision charges on material	5.00%	52052
7	Insurance , Labour & Finance Cost	2.50%	26026
	Service Cost		**291492**
	Sub-Total		**1332535**
8	Turnkey Charges	4.00%	53301
	Total		**1385836**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1761965	1385836
Total Cost of the Estimate	1761965	1385836

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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	1130.43	1130430.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 300 sqmm	No.	4.00	5288.96	21155.84
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 300 sqmm	No.	2.00	2029.48	4058.96
6	Sand	Cmt	250.00	210.13	52532.50

	Cost of material		**1317777.30**
1	Transportation on material	4.00%	52711
2	T&P on material cost	1.00%	13178
3	Contigencies on material	0.50%	6589
5	Erection cost on material	15.00%	197667
6	Contractor supervision charges on material	5.00%	65889
7	Insurance , Labour & Finance Cost	2.50%	32944
	Service Cost		**368978**
	Sub-Total		**1686755**
8	Turnkey Charges	4.00%	67470
	Total		**1754225**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2230338	1754225
Total Cost of the Estimate	2230338	1754225

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Item Code No.5506					
Cost Data for conversion of 1 Km 11 KV Overhead line by 3 C, 240 Sqmm XLPE under ground Cable					
Sr.No.	**Particulars**	**Unit**	**Qty.**	**RT/U Rs.**	**Amount**
1	XLPE Cable 11 KV, 3 C / 240 mm sq.	Rmt	1000.00	982.46	982460.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 240 sqmm	No.	4.00	5288.96	21155.84
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 240 sqmm	No.	2.00	2029.48	4058.96
6	Sand	Cmt	250.00	210.13	52532.50

	Cost of material		**1169807.30**
1	Transportation on material	4.00%	46792
2	T&P on material cost	1.00%	11698
3	Contigencies on material	0.50%	5849
5	Erection cost on material	15.00%	175471
6	Contractor supervision charges on material	5.00%	58490
7	Insurance , Labour & Finance Cost	2.50%	29245
	Service Cost		**327546**
	Sub-Total		**1497353**
8	Turnkey Charges	4.00%	59894
	Total		**1557247**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1979899	1557247
Total Cost of the Estimate	1979899	1557247

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Item Code No.5507					
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	794.00	794000.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 185 sqmm	No.	4.00	5042.96	20171.84
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 185 sqmm	No.	2.00	1906.49	3812.98
6	Sand	Cmt	250.00	210.13	52532.50

	Cost of material		**980117.32**
1	Transportation on material	4.00%	39205
2	T&P on material cost	1.00%	9801
3	Contigencies on material	0.50%	4901
5	Erection cost on material	15.00%	147018
6	Contractor supervision charges on material	5.00%	49006
7	Insurance , Labour & Finance Cost	2.50%	24503
	Service Cost		**274433**
	Sub-Total		**1254550**
8	Turnkey Charges	4.00%	50182
	Total		**1304732**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1658849	1304732
Total Cost of the Estimate	1658849	1304732

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Item Code No.5508					
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	636.67	636670.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Half round cement pipe (150mm X 1mtr)	No.	940.00	100.00	94000.00
4	11 kV heat shrinkable Straight through joint kit for 3 C X 95 sqmm	No.	4.00	4181.97	16727.88
5	11 kV heat shrinkable Outdoor termination joint kit for 3 C X 95 sqmm	No.	2.00	1458.10	2916.20
6	Sand	Cmt	250.00	210.13	52532.50

	Cost of material		**818446.58**
1	Transportation on material	4.00%	32738
2	T&P on material cost	1.00%	8184
3	Contigencies on material	0.50%	4092
5	Erection cost on material	15.00%	122767
6	Contractor supervision charges on material	5.00%	40922
7	Insurance , Labour & Finance Cost	2.50%	20461
	Service Cost		**229165**
	Sub-Total		**1047612**
8	Turnkey Charges	4.00%	41904
	Total		**1089516**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1385221	1089516
Total Cost of the Estimate	1385221	1089516

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Item Code No. 5510					
Coversion 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	659.26	659260.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**699013.00**
1	Transportation on material	4.00%			27961
2	T&P on material cost	1.00%			6990
3	Contigencies on material	0.50%			3495
5	Erection cost on material	15.00%			104852
6	Contractor supervision charges on material	5.00%			34951
7	Insurance , Labour & Finance Cost	2.50%			17475
	Service Cost				**195724**
	Sub-Total				**894737**
8	Turnkey Charges	4.00%			35789
	Total				**930526**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1183080	930526
Total Cost of the Estimate	1183080	930526

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Item Code No. 5511					
Coversion 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	558.30	558300.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00

	Cost of material		**598053.00**
1	Transportation on material	4.00%	23922
2	T&P on material cost	1.00%	5981
3	Contigencies on material	0.50%	2990
5	Erection cost on material	15.00%	89708
6	Contractor supervision charges on material	5.00%	29903
7	Insurance , Labour & Finance Cost	2.50%	14951
	Service Cost		**167455**
	Sub-Total		**765508**
8	Turnkey Charges	4.00%	30620
	Total		**796128**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1012205	796128
Total Cost of the Estimate	1012205	796128

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Item Code No. 5512					
Coversion 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 cable185 sq.mm.	RMT	1000	424.97	424970.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00

	Cost of material		**464723.00**
1	Transportation on material	4.00%	18589
2	T&P on material cost	1.00%	4647
3	Contigencies on material	0.50%	2324
5	Erection cost on material	15.00%	69708
6	Contractor supervision charges on material	5.00%	23236
7	Insurance , Labour & Finance Cost	2.50%	11618
	Service Cost		**130122**
	Sub-Total		**594845**
8	Turnkey Charges	4.00%	23794
	Total		**618639**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	786544	618639
Total Cost of the Estimate	786544	618639

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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	286.71	286710.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**326463.00**
1	Transportation on material	4.00%			13059
2	T&P on material cost	1.00%			3265
3	Contigencies on material	0.50%			1632
5	Erection cost on material	15.00%			48969
6	Contractor supervision charges on material	5.00%			16323
7	Insurance , Labour & Finance Cost	2.50%			8162
	Service Cost				**91410**
	Sub-Total				**417873**
8	Turnkey Charges	4.00%			16715
	Total				**434588**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	552539	434588
Total Cost of the Estimate	552539	434588

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Item Code No. 5514					
Coversion of Overhead LT Line to underground by 3.5 C, 95 sqmm XLPE cable					
Sr.No	**Description of Material**	**Unit**	**Qty.**	**RT/U Rs.**	**Amount**
1	LT XLPE Armoured Cable 3 1/2C X 95 Sq mm	RMT	1000	239.08	239080.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00

	Cost of material		**278833.00**
1	Transportation on material	4.00%	11153
2	T&P on material cost	1.00%	2788
3	Contigencies on material	0.50%	1394
5	Erection cost on material	15.00%	41825
6	Contractor supervision charges on material	5.00%	13942
7	Insurance , Labour & Finance Cost	2.50%	6971
	Service Cost		**78073**
	Sub-Total		**356906**
8	Turnkey Charges	4.00%	14276
	Total		**371182**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	471925	371182
Total Cost of the Estimate	471925	371182

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Item Code No. 5515					
Coversion 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	170.70	170700.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
2	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00

	Cost of material		**210453.00**
1	Transportation on material	4.00%	8418
2	T&P on material cost	1.00%	2105
3	Contigencies on material	0.50%	1052
5	Erection cost on material	15.00%	31568
6	Contractor supervision charges on material	5.00%	10523
7	Insurance , Labour & Finance Cost	2.50%	5261
	Service Cost		**58927**
	Sub-Total		**269380**
8	Turnkey Charges	4.00%	10775
	Total		**280155**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	356192	280155
Total Cost of the Estimate	356192	280155

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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	170.70	170700.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**210453.00**
1	Transportation on material	4.00%			8418
2	T&P on material cost	1.00%			2105
3	Contigencies on material	0.50%			1052
5	Erection cost on material	15.00%			31568
6	Contractor supervision charges on material	5.00%			10523
7	Insurance , Labour & Finance Cost	2.50%			5261
	Service Cost				**58927**
	Sub-Total				**269380**
8	Turnkey Charges	4.00%			10775
	Total				**280155**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	356192	280155
Total Cost of the Estimate	356192	280155

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Item Code No. 5517					
Coversion 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	145.97	145970.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00

	Cost of material		**185723.00**
1	Transportation on material	4.00%	7429
2	T&P on material cost	1.00%	1857
3	Contigencies on material	0.50%	929
5	Erection cost on material	15.00%	27858
6	Contractor supervision charges on material	5.00%	9286
7	Insurance , Labour & Finance Cost	2.50%	4643
	Service Cost		**52002**
	Sub-Total		**237725**
8	Turnkey Charges	4.00%	9509
	Total		**247234**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	314336	247234
Total Cost of the Estimate	314336	247234

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Item Code No. 5518					
Coversion 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	75.89	75890.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00

	Cost of material		**115643.00**
1	Transportation on material	4.00%	4626
2	T&P on material cost	1.00%	1156
3	Contigencies on material	0.50%	578
5	Erection cost on material	15.00%	17346
6	Contractor supervision charges on material	5.00%	5782
7	Insurance , Labour & Finance Cost	2.50%	2891
	Service Cost		**32380**
	Sub-Total		**148023**
8	Turnkey Charges	4.00%	5921
	Total		**153944**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	195726	153944
Total Cost of the Estimate	195726	153944

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Item Code No. 5519					
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	50.49	50490.00
2	R.C.C. Pipe 150 mm 2 M	No	30.00	520.00	15600.00
3	Misc. (Bricks,sand,tremination kit and etc.)	LS	1	24153.00	24153.00
	Cost of material				**90243.00**
1	Transportation on material	4.00%			3610
2	T&P on material cost	1.00%			902
3	Contigencies on material	0.50%			451
5	Erection cost on material	15.00%			13536
6	Contractor supervision charges on material	5.00%			4512
7	Insurance , Labour & Finance Cost	2.50%			2256
	Service Cost				**25268**
	Sub-Total				**115511**
8	Turnkey Charges	4.00%			4620
	Total				**120131**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	152736	120131
Total Cost of the Estimate	152736	120131

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Item Code No. 5701					
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**	**5818454.43**	**5818454.43**
	Total				**5818454.43**

1	Transportation on material	4.00%	232738
2	T&P on material cost	1.00%	58185
3	Contigencies on material	0.50%	29092
5	Erection cost on material	5.00%	290923
6	Contractor supervision charges on material	5.00%	290923
7	Insurance , Labour & Finance Cost	2.50%	145461
	Service Cost		**1047322**
	Sub-Total		**6865776**
8	Turnkey Charges	4.00%	274631
	Total		**7140407**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	9101226	7140407
Total Cost of the Estimate	9101226	7140407

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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, Islators, C.T. & P.T. etc.	Set	2	1108356.46	2216712.92
2	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
3	11 KV OD type VCB with directional relay with Bus coupler complete	Set	1	614544.17	614544.17
4	Take off structure for 3 outgoing feeder as per Sheet:A	No.	1	467425.03	467425.03
5	11 kV SF6, Motorized, SCADA Compatible RMU 2 Iso +	Set	2	390000.00	780000.00
6	11 kV Pin Insulators with G.I. Pins	No.	18	135.11	2431.89
7	XLPE Cable 11 KV, 3 C / 300 mm sq.	Rmt	400	1130.43	452172.00
8	11 kV heat shrinkable Straight through joint kit for 3 C X 300 sqmm	No.	8	5288.96	42311.68
9	AAAC 232 mm2	Rmt	300	124.91	37473.00
10	Clamps and Connectors as per Sheet:B	No.	1	126367.30	126367.30
11	Structure for 11 KV Main Bus as per Sheet:C	No.	1	221721.24	221721.24
12	Station Transformer 11/0.4 KV 100 KVA as per sheet:E	No.	1	213584.01	213584.01
13	Control cables for S/S as per Sheet :D	No.	1	179885.20	179885.20
14	Earthing works as per sheet :F	No.	1	266919.80	266919.80
15	Concreting ration 1:4:8	CUM	75	2596.08	194706.18
	Cost of material				**5818454.43**

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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	9073.00	145168.00
2	MS Channel 100x50x6 mm	Kg.	2130.00	50.78	108161.40
3	MS angle 50x50x6 mm	Kg.	100.00	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	150.00	47.55	7132.50
5	11KV A.B. Switch	Nos.	10	8400.00	84000.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	72	344.48	24802.56
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	72	321.66	23159.52
8	11 kV Pin Insulators with G.I. Pins	Nos.	18	135.11	2431.89
9	Earthing Sets H.T	Sets	6	335.51	2013.06
10	L.As. 11 KV (Gapless type) with disconector	Sets	6	1100.00	6600.00
11	AAAC 100 mm2	Rmt.	200.00	50.80	10160.00
12	G.I.Strip (25 X 3 mm)	Kg.	80.00	64.78	5182.40
13	G.I.Nut Bolts	Kg.	50.00	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	15.00	2596.08	38941.24
15	Miscelleneous material	LS	1	450.00	450.00
				Total:	**467425.03**

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	718.19	14363.84
b)	DOG TO DOG or equivalent AAAC	Nos.	60	558.59	33515.52
2	T-Connector for 100 sq mm conductor	Nos.	47	733.15	34458.14
3	T-Connector for 200 sq mm conductor(Compression type)	Nos.	9	3352.00	30168.00
4	T Connectors suitable for 200 sqmm twin conductor	Nos.	18	865.00	15570.00
5	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
6	Sundries	L.S.	1	770.00	770.00
				Total:	**126367.30**

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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	13009.00	104072.00
2	MS Channel 100x50x6 mm	Kg.	650	50.78	33007.00
3	MS Flat 75x10 mm	Kg.	100	47.55	4755.00
4	Concreting ration 1:4:8	Cmt.	7	2596.08	18172.58
5	Disc Insulator 11 KV 7000 KG.	No.	12	344.48	4133.76
6	Strain Hardware for 0.2 ACSR or equivalent AAAC for twin conductor	No.	12	463.00	5556.00
7	AAAC 232 mm2	Rmt.	400	124.91	49964.00
8	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**221721.24**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Amourred 2C 16 Sqmm cable	Rmt	200	50.49	10098.00
6	PVC pipe 110 mm dia 4Kg/sqcm pressure	Rmt	70	90.00	6300.00
7	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**179885.20**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	130	50.78	6601.40
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	20	170.70	3414.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Bentonite clay	Kg.	225	10.99	2472.75
15	Plinth for station Transformer	Cmt	7.6	4763.93	36205.90
16	AAAC 55 mm2	Mtr	30	28.00	840.00
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**213584.01**

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	47.55	38040.00
2	M.S. Flats(50 X 10mm)	Kg	700	47.55	33285.00
3	G.I.Strip (25 X 3 mm)	Kg	500	64.78	32390.00
4	Earthing Sets H.T with clamp	Set	20	7076.69	141533.80
5	Bentonite clay	Kg.	1500	10.99	16485.00
6	RCC Ring work for earthing pits	No.	20	242.00	4840.00
7	Welding Rods	No.	50	2.42	121.00
8	Hiring of welding machine	No.	1	225.00	225.00
				Total:	**266919.80**

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	22670.40	22670.40
	Cost of Material				**22670.40**

1	Transportation on material	4.00%	907
2	T&P on material cost	1.00%	227
3	Contigencies on material	0.50%	113
5	Erection cost on material	5.00%	1134
6	Contractor supervision charges on material	5.00%	1134
7	Insurance , Labour & Finance Cost	2.50%	567
	Service Cost		**4081**
	Sub-Total		**26751**
8	Turnkey Charges	4.00%	1070
	Total		**27821**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	35461	27821
Total Cost of the Estimate	35461	27821

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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	25250.00	25250.00
	Cost of Material				**25250.00**

1	Transportation on material	4.00%	1010
2	T&P on material cost	1.00%	253
3	Contigencies on material	0.50%	126
5	Erection cost on material	5.00%	1263
6	Contractor supervision charges on material	5.00%	1263
7	Insurance , Labour & Finance Cost	2.50%	631
	Service Cost		**4545**
	Sub-Total		**29795**
8	Turnkey Charges	4.00%	1192
	Total		**30987**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	39496	30987
Total Cost of the Estimate	39496	30987

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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	13400.00	13400.00
	Cost of Material				**13400.00**

1	Transportation on material	4.00%	536
2	T&P on material cost	1.00%	134
3	Contigencies on material	0.50%	67
5	Erection cost on material	5.00%	670
6	Contractor supervision charges on material	5.00%	670
7	Insurance , Labour & Finance Cost	2.50%	335
	Service Cost		**2412**
	Sub-Total		**15812**
8	Turnkey Charges	4.00%	632
	Total		**16444**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	20960	16444
Total Cost of the Estimate	20960	16444

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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	15500.00	15500.00
	Cost of Material				**15500.00**

1	Transportation on material	4.00%	620
2	T&P on material cost	1.00%	155
3	Contigencies on material	0.50%	78
5	Erection cost on material	5.00%	775
6	Contractor supervision charges on material	5.00%	775
7	Insurance , Labour & Finance Cost	2.50%	388
	Service Cost		**2790**
	Sub-Total		**18290**
8	Turnkey Charges	4.00%	732
	Total		**19022**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	24245	19022
Total Cost of the Estimate	24245	19022

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Item Code No. 5708					
Replacement of 33 kV PT					
Sr.No.	**Description**	**Unit**	**Qty**	**Rate**	**Amt**
1	33 KV P.T.	No	1	18898.49	18898.49
	Cost of material				**18898.49**

1	Transportation on material	4.00%	756
2	T&P on material cost	1.00%	189
3	Contigencies on material	0.50%	94
5	Erection cost on material	5.00%	945
6	Contractor supervision charges on material	5.00%	945
7	Insurance , Labour & Finance Cost	2.50%	472
	Service Cost		**3402**
	Sub-Total		**22300**
8	Turnkey Charges	4.00%	892
	Total		**23192**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	29561	23192
Total Cost of the Estimate	29561	23192

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Item Code No. 5709					
Replacement of 22 kV PT					
Sr.No.	**Description**	**Unit**	**Qty**	**Rate**	**Amt**
1	22 KV P.T.	No	1	17750.00	17750.00
	Cost of material				**17750.00**

1	Transportation on material	4.00%	710
2	T&P on material cost	1.00%	178
3	Contigencies on material	0.50%	89
5	Erection cost on material	5.00%	888
6	Contractor supervision charges on material	5.00%	888
7	Insurance , Labour & Finance Cost	2.50%	444
	Service Cost		**3195**
	Sub-Total		**20945**
8	Turnkey Charges	4.00%	838
	Total		**21783**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	27765	21783
Total Cost of the Estimate	27765	21783

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Item Code No. 5710					
Replacement of 11 kV PT					
Sr.No.	**Description**	**Unit**	**Qty**	**Rate**	**Amt**
1	11 KV PT	Set	1	7696.00	7696.00
	Cost of material				**7696.00**

1	Transportation on material	4.00%	308
2	T&P on material cost	1.00%	77
3	Contigencies on material	0.50%	38
5	Erection cost on material	5.00%	385
6	Contractor supervision charges on material	5.00%	385
7	Insurance , Labour & Finance Cost	2.50%	192
	Service Cost		**1385**
	Sub-Total		**9081**
8	Turnkey Charges	4.00%	363
	Total		**9445**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	12038	9445
Total Cost of the Estimate	12038	9445

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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	142500.00	142500.00
	Cost of material				**142500.00**

1	Transportation on material	4.00%	5700
2	T&P on material cost	1.00%	1425
3	Contigencies on material	0.50%	713
5	Erection cost on material	5.00%	7125
6	Contractor supervision charges on material	5.00%	7125
7	Insurance , Labour & Finance Cost	2.50%	3563
	Service Cost		**25650**
	Sub-Total		**168150**
8	Turnkey Charges	4.00%	6726
	Total		**174876**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	222899	174876
Total Cost of the Estimate	222899	174876

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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	142500.00	142500.00
	Cost of material				**142500.00**

1	Transportation on material	4.00%	5700
2	T&P on material cost	1.00%	1425
3	Contigencies on material	0.50%	713
5	Erection cost on material	5.00%	7125
6	Contractor supervision charges on material	5.00%	7125
7	Insurance , Labour & Finance Cost	2.50%	3563
	Service Cost		**25650**
	Sub-Total		**168150**
8	Turnkey Charges	4.00%	6726
	Total		**174876**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	222899	174876
Total Cost of the Estimate	222899	174876

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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	145000.00	145000.00
	Cost of material				**145000.00**

1	Transportation on material	4.00%	5800
2	T&P on material cost	1.00%	1450
3	Contigencies on material	0.50%	725
5	Erection cost on material	5.00%	7250
6	Contractor supervision charges on material	5.00%	7250
7	Insurance , Labour & Finance Cost	2.50%	3625
	Service Cost		**26100**
	Sub-Total		**171100**
8	Turnkey Charges	4.00%	6844
	Total		**177944**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	226809	177944
Total Cost of the Estimate	226809	177944

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Item Code No. 5717					
Replacement of 11 kV VCB 800Amp (Ourdoor Type)					
Sr.No.	**Description**	**Unit**	**Qty**	**Rate**	**Amt**
1	11 KV VCB 800 A Outdoor	Set	1	145000.00	145000.00
	Cost of material				**145000.00**

1	Transportation on material	4.00%	5800
2	T&P on material cost	1.00%	1450
3	Contigencies on material	0.50%	725
5	Erection cost on material	5.00%	7250
6	Contractor supervision charges on material	5.00%	7250
7	Insurance , Labour & Finance Cost	2.50%	3625
	Service Cost		**26100**
	Sub-Total		**171100**
8	Turnkey Charges	4.00%	6844
	Total		**177944**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	226809	177944
Total Cost of the Estimate	226809	177944

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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	57000.00	57000.00
	Cost of material				**57000.00**

1	Transportation on material	4.00%	2280
2	T&P on material cost	1.00%	570
3	Contigencies on material	0.50%	285
5	Erection cost on material	5.00%	2850
6	Contractor supervision charges on material	5.00%	2850
7	Insurance , Labour & Finance Cost	2.50%	1425
	Service Cost		**10260**
	Sub-Total		**67260**
8	Turnkey Charges	4.00%	2690
	Total		**69950**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	89159	69950
Total Cost of the Estimate	89159	69950

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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	22400.00	22400.00
	Cost of material				**22400.00**

1	Transportation on material	4.00%	896
2	T&P on material cost	1.00%	224
3	Contigencies on material	0.50%	112
5	Erection cost on material	5.00%	1120
6	Contractor supervision charges on material	5.00%	1120
7	Insurance , Labour & Finance Cost	2.50%	560
	Service Cost		**4032**
	Sub-Total		**26432**
8	Turnkey Charges	4.00%	1057
	Total		**27489**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	35038	27489
Total Cost of the Estimate	35038	27489

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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	39000.00	39000.00
	Cost of material				**39000.00**

1	Transportation on material	4.00%	1560
2	T&P on material cost	1.00%	390
3	Contigencies on material	0.50%	195
5	Erection cost on material	5.00%	1950
6	Contractor supervision charges on material	5.00%	1950
7	Insurance , Labour & Finance Cost	2.50%	975
	Service Cost		**7020**
	Sub-Total		**46020**
8	Turnkey Charges	4.00%	1841
	Total		**47861**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	61004	47861
Total Cost of the Estimate	61004	47861

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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	46750.00	46750.00
	Cost of material				**46750.00**

1	Transportation on material	4.00%	1870
2	T&P on material cost	1.00%	468
3	Contigencies on material	0.50%	234
5	Erection cost on material	5.00%	2338
6	Contractor supervision charges on material	5.00%	2338
7	Insurance , Labour & Finance Cost	2.50%	1169
	Service Cost		**8415**
	Sub-Total		**55165**
8	Turnkey Charges	4.00%	2207
	Total		**57372**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	73126	57372
Total Cost of the Estimate	73126	57372

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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	11467.00	11467.00
	Cost of material				**11467.00**

1	Transportation on material	4.00%	459
2	T&P on material cost	1.00%	115
3	Contigencies on material	0.50%	57
5	Erection cost on material	5.00%	573
6	Contractor supervision charges on material	5.00%	573
7	Insurance , Labour & Finance Cost	2.50%	287
	Service Cost		**2064**
	Sub-Total		**13531**
8	Turnkey Charges	4.00%	541
	Total		**14072**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	17937	14072
Total Cost of the Estimate	17937	14072

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CIN: U40109MH2005SGC153645

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	13094.00	13094.00
	Cost of material				**13094.00**

1	Transportation on material	4.00%	524
2	T&P on material cost	1.00%	131
3	Contigencies on material	0.50%	65
5	Erection cost on material	5.00%	655
6	Contractor supervision charges on material	5.00%	655
7	Insurance , Labour & Finance Cost	2.50%	327
	Service Cost		**2357**
	Sub-Total		**15451**
8	Turnkey Charges	4.00%	618
	Total		**16069**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	20482	16069
Total Cost of the Estimate	20482	16069

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CIN: U40109MH2005SGC153645

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	8400.00	8400.00
	Cost of material				**8400.00**

1	Transportation on material	4.00%	336
2	T&P on material cost	1.00%	84
3	Contigencies on material	0.50%	42
5	Erection cost on material	5.00%	420
6	Contractor supervision charges on material	5.00%	420
7	Insurance , Labour & Finance Cost	2.50%	210
	Service Cost		**1512**
	Sub-Total		**9912**
8	Turnkey Charges	4.00%	396
	Total		**10308**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	13139	10308
Total Cost of the Estimate	13139	10308

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CIN: U40109MH2005SGC153645

Item Code No. 5728					
Replacement of C&R pannel with diffrential protection for 33 kV					
Sr.No.	**Description**	**Unit**	**Qty**	**Rate**	**Amt**
1	C&R panel for 33 KV Transformer with Diff. Protection	Set	1	133331.44	133331.44
	Cost of material				**133331.44**

1	Transportation on material	4.00%	5333
2	T&P on material cost	1.00%	1333
3	Contigencies on material	0.50%	667
5	Erection cost on material	5.00%	6667
6	Contractor supervision charges on material	5.00%	6667
7	Insurance , Labour & Finance Cost	2.50%	3333
	Service Cost		**24000**
	Sub-Total		**157331**
8	Turnkey Charges	4.00%	6293
	Total		**163624**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	208557	163624
Total Cost of the Estimate	208557	163624

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 5729					
Replacement of control pannel 22 kV					
Sr.No.	**Description**	**Unit**	**Qty**	**Rate**	**Amt**
1	Replacement of Control Panel 22 KV	Set	1	65982.08	65982.08
	Cost of material				**65982.08**

1	Transportation on material	4.00%	2639
2	T&P on material cost	1.00%	660
3	Contigencies on material	0.50%	330
5	Erection cost on material	5.00%	3299
6	Contractor supervision charges on material	5.00%	3299
7	Insurance , Labour & Finance Cost	2.50%	1650
	Service Cost		**11877**
	Sub-Total		**77859**
8	Turnkey Charges	4.00%	3114
	Total		**80973**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	103209	80973
Total Cost of the Estimate	103209	80973

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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	35000.00	35000.00
	Cost of material				**35000.00**

1	Transportation on material	4.00%	1400
2	T&P on material cost	1.00%	350
3	Contigencies on material	0.50%	175
5	Erection cost on material	5.00%	1750
6	Contractor supervision charges on material	5.00%	1750
7	Insurance , Labour & Finance Cost	2.50%	875
	Service Cost		**6300**
	Sub-Total		**41300**
8	Turnkey Charges	4.00%	1652
	Total		**42952**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	54747	42952
Total Cost of the Estimate	54747	42952

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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	35000.00	35000.00
	Cost of material				**35000.00**

1	Transportation on material	4.00%	1400
2	T&P on material cost	1.00%	350
3	Contigencies on material	0.50%	175
5	Erection cost on material	5.00%	1750
6	Contractor supervision charges on material	5.00%	1750
7	Insurance , Labour & Finance Cost	2.50%	875
	Service Cost		**6300**
	Sub-Total		**41300**
8	Turnkey Charges	4.00%	1652
	Total		**42952**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	54747	42952
Total Cost of the Estimate	54747	42952

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CIN: U40109MH2005SGC153645

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	35000.00	35000.00
2	Battery chargers suitable for above	No	1	35000.00	35000.00
	Cost of material				**70000.00**

1	Transportation on material	4.00%	2800
2	T&P on material cost	1.00%	700
3	Contigencies on material	0.50%	350
5	Erection cost on material	5.00%	3500
6	Contractor supervision charges on material	5.00%	3500
7	Insurance , Labour & Finance Cost	2.50%	1750
	Service Cost		**12600**
	Sub-Total		**82600**
8	Turnkey Charges	4.00%	3304
	Total		**85904**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	109494	85904
Total Cost of the Estimate	109494	85904

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CIN: U40109MH2005SGC153645

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	3005005.74	3005005.74
	Cost of material				**3005005.74**

1	Transportation on material	4.00%	120200
2	T&P on material cost	1.00%	30050
3	Contigencies on material	0.50%	15025
5	Erection cost on material	5.00%	150250
6	Contractor supervision charges on material	5.00%	150250
7	Insurance , Labour & Finance Cost	2.50%	75125
	Service Cost		**540901**
	Sub-Total		**3545907**
8	Turnkey Charges	4.00%	141836
	Total		**3687743**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	4700430	3687743
Total Cost of the Estimate	4700430	3687743

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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	1391370.17	1391370.17
	Cost of material				**1391370.17**

1	Transportation on material	4.00%	55655
2	T&P on material cost	1.00%	13914
3	Contigencies on material	0.50%	6957
5	Erection cost on material	5.00%	69569
6	Contractor supervision charges on material	5.00%	69569
7	Insurance , Labour & Finance Cost	2.50%	34784
	Service Cost		**250447**
	Sub-Total		**1641817**
8	Turnkey Charges	4.00%	65673
	Total		**1707489**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	2176381	1707489
Total Cost of the Estimate	2176381	1707489

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CIN: U40109MH2005SGC153645

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	1947918.23	1947918.23
	Cost of material				**1947918.23**

1	Transportation on material	4.00%	77917
2	T&P on material cost	1.00%	19479
3	Contigencies on material	0.50%	9740
5	Erection cost on material	5.00%	97396
6	Contractor supervision charges on material	5.00%	97396
7	Insurance , Labour & Finance Cost	2.50%	48698
	Service Cost		**350625**
	Sub-Total		**2298544**
8	Turnkey Charges	4.00%	91942
	Total		**2390485**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	3046934	2390485
Total Cost of the Estimate	3046934	2390485

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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	556548.07	556548.07
	Cost of material				**556548.07**

1	Transportation on material	4.00%	22262
2	T&P on material cost	1.00%	5565
3	Contigencies on material	0.50%	2783
5	Erection cost on material	5.00%	27827
6	Contractor supervision charges on material	5.00%	27827
7	Insurance , Labour & Finance Cost	2.50%	13914
	Service Cost		**100179**
	Sub-Total		**656727**
8	Turnkey Charges	4.00%	26269
	Total		**682996**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	870552	682996
Total Cost of the Estimate	870552	682996

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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	3005005.74	3005005.74
	Cost of material				**3005005.74**

1	Transportation on material	4.00%	120200
2	T&P on material cost	1.00%	30050
3	Contigencies on material	0.50%	15025
5	Erection cost on material	5.00%	150250
6	Contractor supervision charges on material	5.00%	150250
7	Insurance , Labour & Finance Cost	2.50%	75125
	Service Cost		**540901**
	Sub-Total		**3545907**
8	Turnkey Charges	4.00%	141836
	Total		**3687743**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	4700430	3687743
Total Cost of the Estimate	4700430	3687743

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Item Code No. 5745					
33 kV Isolator ,800 A without EB					
Sr. No.	**Description of Material**	**Unit**	**QTY**	**Rate/Unit Rs.**	**Amount Rs.**
1	33 KV Isolators without EB (800 Amp.)	Set	1.00	46750.00	46750.00
	Cost of material				**46750.00**

1	Transportation on material	4.00%	1870
2	T&P on material cost	1.00%	468
3	Contigencies on material	0.50%	234
5	Erection cost on material	5.00%	2338
6	Contractor supervision charges on material	5.00%	2338
7	Insurance , Labour & Finance Cost	2.50%	1169
	Service Cost		**8415**
	Sub-Total		**55165**
8	Turnkey Charges	4.00%	2207
	Total		**57372**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	73126	57372
Total Cost of the Estimate	73126	57372

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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 Rs.**
1	33 KV P.T.	No	3	18898.49	56695.48
2	33 KV Isolators without EB (800 Amp.)	Set	1	46750.00	46750.00
4	AAAC 100 mm2	mtr	300.00	50.80	15240.00
3	Structure for 33 KV PT	Kg	315	50.78	15995.70
5	Marshalling Box	No	1	4200.00	4200.00
6	Armoured Copper control cable 4C X 2.5 Sq mm	m	50	180.20	9010.00
7	Disc Insulator 11 KV 7000 KG.	No	18	344.48	6200.64
8	Strain Hardware for Dog0.1 or Equ.AAAC.	Set	3	321.66	964.98
9	G.I.Nut Boltss Washer & Misc Material	LS	1	2060.90	2060.90
	Cost of material			**Total**	**157117.71**

1	Transportation on material	4.00%	6285
2	T&P on material cost	1.00%	1571
3	Contigencies on material	0.50%	786
5	Erection cost on material	5.00%	7856
6	Contractor supervision charges on material	5.00%	7856
7	Insurance , Labour & Finance Cost	2.50%	3928
	Service Cost		**28281**
	Sub-Total		**185399**
8	Turnkey Charges	4.00%	7416
	Total		**192815**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	245764	192815
Total Cost of the Estimate	245764	192815

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Item Code No. 5747					
11 kV Isolator ,400 A with EB (Indoor)					
Sr. No.	**Description of Material**	**Unit**	**QTY**	**Rate/Unit Rs.**	**Amount Rs.**
1	11 KV Isolator with EB 400 A	Set	1	25500.00	25500.00
	Cost of material			**Total**	**25500.00**

1	Transportation on material	4.00%	1020
2	T&P on material cost	1.00%	255
3	Contigencies on material	0.50%	128
5	Erection cost on material	5.00%	1275
6	Contractor supervision charges on material	5.00%	1275
7	Insurance , Labour & Finance Cost	2.50%	638
	Service Cost		**4590**
	Sub-Total		**30090**
8	Turnkey Charges	4.00%	1204
	Total		**31294**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	39887	31294
Total Cost of the Estimate	39887	31294

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CIN: U40109MH2005SGC153645

Item Code No. 5748					
Replacement of33/11 kv 5 MVA Power transformer					
Sr.No	**Description**	**Unit**	**Qty.**	**Rate**	**Amount**
1	Power Transformer 33/11 KV, 5 MVA	No	1	3129000.00	3129000.00
	Cost of material			**Total**	**3129000.00**

1	Transportation on material	4.00%	125160
2	T&P on material cost	1.00%	31290
3	Contigencies on material	0.50%	15645
5	Erection cost on material	5.00%	156450
6	Contractor supervision charges on material	5.00%	156450
7	Insurance , Labour & Finance Cost	2.50%	78225
	Service Cost		**563220**
	Sub-Total		**3692220**
8	Turnkey Charges	4.00%	147689
	Total		**3839909**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	4894382	3839909
Total Cost of the Estimate	4894382	3839909

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Item Code No. 5749					
Replacement of33/11 kv 5 MVA Power transformer					
Sr.No	**Description**	**Unit**	**Qty.**	**Rate**	**Amount**
1	Power Transformer 33/11 KV, 10 MVA	No	**1**	5233333.00	5233333.00
	Cost of material			**Total**	**5233333.00**

1	Transportation on material	4.00%	209333
2	T&P on material cost	1.00%	52333
3	Contigencies on material	0.50%	26167
5	Erection cost on material	5.00%	261667
6	Contractor supervision charges on material	5.00%	261667
7	Insurance , Labour & Finance Cost	2.50%	130833
	Service Cost		**942000**
	Sub-Total		**6175333**
8	Turnkey Charges	4.00%	247013
	Total		**6422346**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	8185979	6422346
Total Cost of the Estimate	8185979	6422346

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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**	3095000.00	3095000.00
	Cost of material			**Total**	**3095000.00**

1	Transportation on material	4.00%	123800
2	T&P on material cost	1.00%	30950
3	Contigencies on material	0.50%	15475
5	Erection cost on material	5.00%	154750
6	Contractor supervision charges on material	5.00%	154750
7	Insurance , Labour & Finance Cost	2.50%	77375
	Service Cost		**557100**
	Sub-Total		**3652100**
8	Turnkey Charges	4.00%	146084
	Total		**3798184**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	4841199	3798184
Total Cost of the Estimate	4841199	3798184

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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**	5205000.00	5205000.00
	Cost of material			**Total**	**5205000.00**

1	Transportation on material	4.00%	208200
2	T&P on material cost	1.00%	52050
3	Contigencies on material	0.50%	26025
5	Erection cost on material	5.00%	260250
6	Contractor supervision charges on material	5.00%	260250
7	Insurance , Labour & Finance Cost	2.50%	130125
	Service Cost		**936900**
	Sub-Total		**6141900**
8	Turnkey Charges	4.00%	245676
	Total		**6387576**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	8141661	6387576
Total Cost of the Estimate	8141661	6387576

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(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	13487.00	13487.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	56.27	281.35
3	Earthing with GI pipe	LS	1	268.81	268.81
4	Sundries	LS	1	770.00	770.00
5	MS angle 50x50x6 mm	Kg	20.00	50.78	1015.60
	Cost of Material				**15822.76**

1	Transportation on material	4.00%	633
2	T&P on material cost	1.00%	158
3	Contigencies on material	0.50%	79
5	Erection cost on material	15.00%	2373
6	Contractor supervision charges on material	5.00%	791
7	Insurance , Labour & Finance Cost	2.50%	396
	Service Cost		**4430**
	Sub-Total		**20253**
8	Turnkey Charges	4.00%	810
	Total		**21063**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	26780	21063
Total Cost of the Estimate	26780	21063

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(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	14209.00	14209.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	56.27	281.35
3	Earthing with GI pipe	LS	1	268.81	268.81
4	Sundries	LS	1	770.00	770.00
5	MS angle 50x50x6 mm	Kg	20.00	50.78	1015.60
	Cost of Material				**16544.76**

1	Transportation on material	4.00%	662
2	T&P on material cost	1.00%	165
3	Contigencies on material	0.50%	83
5	Erection cost on material	15.00%	2482
6	Contractor supervision charges on material	5.00%	827
7	Insurance , Labour & Finance Cost	2.50%	414
	Service Cost		**4633**
	Sub-Total		**21177**
8	Turnkey Charges	4.00%	847
	Total		**22024**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	28002	22024
Total Cost of the Estimate	28002	22024

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(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 5803					
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	18479.00	18479.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	56.27	281.35
3	Earthing with GI pipe	LS	1	268.81	268.81
4	Sundries	LS	1	770.00	770.00
5	MS angle 50x50x6 mm	Kg	20.00	50.78	1015.60
	Cost of Material				**20814.76**

1	Transportation on material	4.00%	833
2	T&P on material cost	1.00%	208
3	Contigencies on material	0.50%	104
5	Erection cost on material	15.00%	3122
6	Contractor supervision charges on material	5.00%	1041
7	Insurance , Labour & Finance Cost	2.50%	520
	Service Cost		**5828**
	Sub-Total		**26643**
8	Turnkey Charges	4.00%	1066
	Total		**27709**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	35229	27709
Total Cost of the Estimate	35229	27709

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	61500.00	61500.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	56.27	281.35
3	Earthing with GI pipe	LS	1	268.81	268.81
4	Sundries	LS	1	770.00	770.00
5	MS angle 50x50x6 mm	Kg	20.00	50.78	1015.60
	Cost of Material				**63835.76**

1	Transportation on material	4.00%	2553
2	T&P on material cost	1.00%	638
3	Contigencies on material	0.50%	319
5	Erection cost on material	15.00%	9575
6	Contractor supervision charges on material	5.00%	3192
7	Insurance , Labour & Finance Cost	2.50%	1596
	Service Cost		**17874**
	Sub-Total		**81710**
8	Turnkey Charges	4.00%	3268
	Total		**84978**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	108042	84978
Total Cost of the Estimate	108042	84978

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	3673.00	3673.00
	Cost of Material				**3673.00**

1	Transportation on material	4.00%	147
2	T&P on material cost	1.00%	37
3	Contigencies on material	0.50%	18
5	Erection cost on material	15.00%	551
6	Contractor supervision charges on material	5.00%	184
7	Insurance , Labour & Finance Cost	2.50%	92
	Service Cost		**1028**
	Sub-Total		**4701**
8	Turnkey Charges	4.00%	188
	Total		**4889**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	6217	4889
Total Cost of the Estimate	6217	4889

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	15325.00	15325.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	56.27	281.35
3	Earthing with GI pipe	LS	1	268.81	268.81
4	Sundries	LS	1	770.00	770.00
5	MS angle 50x50x6 mm	Kg	20.00	50.78	1015.60
	Cost of Material				**17660.76**

1	Transportation on material	4.00%	706
2	T&P on material cost	1.00%	177
3	Contigencies on material	0.50%	88
5	Erection cost on material	15.00%	2649
6	Contractor supervision charges on material	5.00%	883
7	Insurance , Labour & Finance Cost	2.50%	442
	Service Cost		**4945**
	Sub-Total		**22606**
8	Turnkey Charges	4.00%	904
	Total		**23510**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	29891	23510
Total Cost of the Estimate	29891	23510

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	24661.00	24661.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	56.27	281.35
3	Earthing with GI pipe	LS	1	268.81	268.81
4	Sundries	LS	1	770.00	770.00
5	MS angle 50x50x6 mm	Kg	20.00	50.78	1015.60
	Cost of Material				**26996.76**

1	Transportation on material	4.00%	1080
2	T&P on material cost	1.00%	270
3	Contigencies on material	0.50%	135
5	Erection cost on material	15.00%	4050
6	Contractor supervision charges on material	5.00%	1350
7	Insurance , Labour & Finance Cost	2.50%	675
	Service Cost		**7559**
	Sub-Total		**34556**
8	Turnkey Charges	4.00%	1382
	Total		**35938**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	45692	35938
Total Cost of the Estimate	45692	35938

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	61500.00	61500.00
2	G.I.Wire 8 SWG/ 6 SWG	Kg.	5	56.27	281.35
3	Earthing with GI pipe	LS	1	268.81	268.81
4	Sundries	LS	1	770.00	770.00
5	MS angle 50x50x6 mm	Kg	20.00	50.78	1015.60
	Cost of Material				**63835.76**

1	Transportation on material	4.00%	2553
2	T&P on material cost	1.00%	638
3	Contigencies on material	0.50%	319
5	Erection cost on material	15.00%	9575
6	Contractor supervision charges on material	5.00%	3192
7	Insurance , Labour & Finance Cost	2.50%	1596
	Service Cost		**17874**
	Sub-Total		**81710**
8	Turnkey Charges	4.00%	3268
	Total		**84978**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	108042	84978
Total Cost of the Estimate	108042	84978

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 5816					
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	135.11	135.11
	Cost of Material				**135.11**

1	Transportation on material	4.00%	5
2	T&P on material cost	1.00%	1
3	Contigencies on material	0.50%	1
5	Erection cost on material	15.00%	20
6	Contractor supervision charges on material	5.00%	7
7	Insurance , Labour & Finance Cost	2.50%	3
	Service Cost		**38**
	Sub-Total		**173**
8	Turnkey Charges	4.00%	7
	Total		**180**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	229	180
Total Cost of the Estimate	229	180

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	335.98	335.98
	Cost of Material				**335.98**

1	Transportation on material	4.00%	13
2	T&P on material cost	1.00%	3
3	Contigencies on material	0.50%	2
5	Erection cost on material	15.00%	50
6	Contractor supervision charges on material	5.00%	17
7	Insurance , Labour & Finance Cost	2.50%	8
	Service Cost		**94**
	Sub-Total		**430**
8	Turnkey Charges	4.00%	17
	Total		**447**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	569	447
Total Cost of the Estimate	569	447

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	541.38	541.38
	Cost of Material				**541.38**

1	Transportation on material	4.00%	22
2	T&P on material cost	1.00%	5
3	Contigencies on material	0.50%	3
5	Erection cost on material	15.00%	81
6	Contractor supervision charges on material	5.00%	27
7	Insurance , Labour & Finance Cost	2.50%	14
	Service Cost		**152**
	Sub-Total		**693**
8	Turnkey Charges	4.00%	28
	Total		**721**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	916	721
Total Cost of the Estimate	916	721

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 5819					
Replacement of 11 kV Disc Insulator					
Sr. No.	**Particulars**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**
1	Disc Insulator 11 KV 7000 KG.	No	1	344.48	344.48
	Cost of material				**344.48**

1	Transportation on material	4.00%	14
2	T&P on material cost	1.00%	3
3	Contigencies on material	0.50%	2
5	Erection cost on material	15.00%	52
6	Contractor supervision charges on material	5.00%	17
7	Insurance , Labour & Finance Cost	2.50%	9
	Service Cost		**96**
	Sub-Total		**441**
8	Turnkey Charges	4.00%	18
	Total		**459**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	583	459
Total Cost of the Estimate	583	459

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	11089.00	11089.00
2	M.S. Flats(50 X 10mm)	Kg	7.0	47.55	332.85
3	MS Channel 100x50x6 mm	Kg	33	50.78	1675.74
4	MS angle 50x50x6 mm	Kg	14	50.78	710.92
5	22 kV Pin Insulators with G.I. Pins	No	3	335.98	1007.93
6	H.T.Stay Set	Set	1	586.66	586.66
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	56.32	450.56
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	56.27	168.81
9	Danger Board in yard.	No	1	50.00	50.00
10	Earthing Sets H.T	Set	1	335.51	335.51
11	G.I.Barbed Wire `A' type.	Kg.	5.000	63.01	315.05
12	Sundries	LS	1	770.00	770.00
12	Concreting ration 1:4:8	Cmt.	0.5	2596.08	1298.04
	Cost of material				**18791.07**

1	Transportation on material	4.00%	752
2	T&P on material cost	1.00%	188
3	Contigencies on material	0.50%	94
5	Erection cost on material	15.00%	2819
6	Contractor supervision charges on material	5.00%	940
7	Insurance , Labour & Finance Cost	2.50%	470
	Service Cost		**5261**
	Sub-Total		**24053**
8	Turnkey Charges	4.00%	962
	Total		**25015**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	31804	25015
Total Cost of the Estimate	31804	25015

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	10081.00	10081.00
2	M.S. Flats(50 X 10mm)	Kg	7.0	47.55	332.85
3	MS Channel 100x50x6 mm	Kg	33	50.78	1675.74
4	MS angle 50x50x6 mm	Kg	14	50.78	710.92
5	22 kV Pin Insulators with G.I. Pins	No	3	335.98	1007.93
6	H.T.Stay Set	Set	1	586.66	586.66
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	56.32	450.56
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	56.27	168.81
9	Danger Board in yard.	No	1	50.00	50.00
10	Earthing Sets H.T	Set	1	335.51	335.51
11	G.I.Barbed Wire `A' type.	Kg.	5.000	63.01	315.05
12	Sundries	LS	1	770.00	770.00
12	Concreting ration 1:4:8	Cmt.	0.5	2596.08	1298.04
	Cost of material				**17783.07**

1	Transportation on material	4.00%	711
2	T&P on material cost	1.00%	178
3	Contigencies on material	0.50%	89
5	Erection cost on material	15.00%	2667
6	Contractor supervision charges on material	5.00%	889
7	Insurance , Labour & Finance Cost	2.50%	445
	Service Cost		**4979**
	Sub-Total		**22762**
8	Turnkey Charges	4.00%	910
	Total		**23673**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	30098	23673
Total Cost of the Estimate	30098	23673

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	21139.00	21139.00
2	MS Channel 100x50x6 mm	Kg.	33	50.78	1675.74
3	G.I.Angle 50x50x6mm	Kg.	14	64.78	906.92
4	G.I Flat 50x10 mm	Kg.	7	61.55	430.85
5	33 kV Pin Insulators with G.I. Pins	No.	3	541.38	1624.13
6	Earthing Sets H.T	Set	1	335.51	335.51
7	H.T.Stay Set	Set	1	586.66	586.66
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	56.32	450.56
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	56.27	112.54
10	G.I.Nut Bolts	Kg.	1	82.89	82.89
11	Sundries	LS	1	770.00	770.00
12	Concreting ration 1:4:8	Cmt.	0.5	2596.08	1298.04
	Cost of material				**28114.80**

1	Transportation on material	4.00%	1125
2	T&P on material cost	1.00%	281
3	Contigencies on material	0.50%	141
5	Erection cost on material	15.00%	4217
6	Contractor supervision charges on material	5.00%	1406
7	Insurance , Labour & Finance Cost	2.50%	703
	Service Cost		**7872**
	Sub-Total		**35987**
8	Turnkey Charges	4.00%	1439
	Total		**37426**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	47584	37426
Total Cost of the Estimate	47584	37426

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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	17887.00	17887.00
2	MS Channel 100x50x6 mm	Kg.	33	50.78	1675.74
3	G.I.Angle 50x50x6mm	Kg.	14	64.78	906.92
4	G.I Flat 50x10 mm	Kg.	7	61.55	430.85
5	33 kV Pin Insulators with G.I. Pins	No.	3	541.38	1624.13
6	Earthing Sets H.T	Set	1	335.51	335.51
7	H.T.Stay Set	Set	1	586.66	586.66
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	56.32	450.56
9	G.I.Wire 8 SWG/ 6 SWG	Kg.	2	56.27	112.54
10	G.I.Nut Bolts	Kg.	1	82.89	82.89
11	Sundries	LS	1	770.00	770.00
12	Concreting ration 1:4:8	Cmt.	0.5	2596.08	1298.04
	Cost of material				**26160.84**

1	Transportation on material	4.00%	1046
2	T&P on material cost	1.00%	262
3	Contigencies on material	0.50%	131
5	Erection cost on material	15.00%	3924
6	Contractor supervision charges on material	5.00%	1308
7	Insurance , Labour & Finance Cost	2.50%	654
	Service Cost		**7325**
	Sub-Total		**33486**
8	Turnkey Charges	4.00%	1339
	Total		**34825**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	44277	34825
Total Cost of the Estimate	44277	34825

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	9073.00	9073.00
2	M.S. Flats(50 X 10mm)	Kg	7.0	47.55	332.85
3	MS Channel 100x50x6 mm	Kg	33	50.78	1675.74
4	MS angle 50x50x6 mm	Kg	14	50.78	710.92
5	22 kV Pin Insulators with G.I. Pins	No	3	335.98	1007.93
6	H.T.Stay Set	Set	1	586.66	586.66
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	56.32	450.56
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	56.27	168.81
9	Danger Board in yard.	No	1	50.00	50.00
10	Earthing Sets H.T	Set	1	335.51	335.51
11	G.I.Barbed Wire `A' type.	Kg.	5.000	63.01	315.05
12	Sundries	LS	1	770.00	770.00
13	Concreting ration 1:4:8	Cmt.	0.50	2596.08	1298.04
	Cost of material				**16775.07**

1	Transportation on material	4.00%	671
2	T&P on material cost	1.00%	168
3	Contigencies on material	0.50%	84
5	Erection cost on material	15.00%	2516
6	Contractor supervision charges on material	5.00%	839
7	Insurance , Labour & Finance Cost	2.50%	419
	Service Cost		**4697**
	Sub-Total		**21472**
8	Turnkey Charges	4.00%	859
	Total		**22331**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	28392	22331
Total Cost of the Estimate	28392	22331

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	9073.00	9073.00
2	M.S. Flats(50 X 10mm)	Kg	7.0	47.55	332.85
3	M.S.Channel 75x40x6 mm	Kg	23	50.78	1167.94
4	MS angle 50x50x6 mm	Kg	14	50.78	710.92
5	11 kV Pin Insulators with G.I. Pins	No	3	135.11	405.32
6	H.T.Stay Set	Set	1	586.66	586.66
7	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	8.000	56.32	450.56
8	G.I.Wire 8 SWG/ 6 SWG	Kg.	3.000	56.27	168.81
9	Danger Board in yard.	No	1	50.00	50.00
10	Earthing Sets H.T	Set	1	335.51	335.51
11	G.I.Barbed Wire `A' type.	Kg.	5.000	63.01	315.05
12	Sundries	LS	1	770.00	770.00
13	Concreting ration 1:4:8	Cmt.	0.50	2596.08	1298.04
	Cost of material				**15664.66**

1	Transportation on material	4.00%	627
2	T&P on material cost	1.00%	157
3	Contigencies on material	0.50%	78
5	Erection cost on material	15.00%	2350
6	Contractor supervision charges on material	5.00%	783
7	Insurance , Labour & Finance Cost	2.50%	392
	Service Cost		**4386**
	Sub-Total		**20051**
8	Turnkey Charges	4.00%	802
	Total		**20853**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	26512	20853
Total Cost of the Estimate	26512	20853

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	5165.00	5165.00
2	MS angle 50x50x6 mm	Kg	5	50.78	253.90
3	MS Flat 50 X 8 mm	Kg	1.5	47.55	71.33
4	L.T.Shackle Insulator	No	4	9.99	39.96
5	L.T.Shackle hardware	Pair	4	34.62	138.49
6	Earthing Sets L.T.	Set	1	162.57	162.57
7	L.T. Stay sets	Set	1	462.84	462.84
8	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	7.000	56.32	394.24
9	Painting/Hardware & support with numbering of pole	No	1	219.57	219.57
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2.000	56.27	112.54
11	Sundries	LS	1	770.00	770.00
12	Concreting ration 1:4:8	Cmt.	0.30	2596.08	778.82
	Cost of material				**8569.26**

1	Transportation on material	4.00%	343
2	T&P on material cost	1.00%	86
3	Contigencies on material	0.50%	43
5	Erection cost on material	15.00%	1285
6	Contractor supervision charges on material	5.00%	428
7	Insurance , Labour & Finance Cost	2.50%	214
	Service Cost		**2399**
	Sub-Total		**10969**
8	Turnkey Charges	4.00%	439
	Total		**11407**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	14503	11407
Total Cost of the Estimate	14503	11407

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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	4591.00	4591.00
2	MS angle 50x50x6 mm	Kg	5	50.78	253.90
3	MS Flat 50 X 8 mm	Kg	1.5	47.55	71.33
4	L.T.Shackle Insulator	No	4	9.99	39.96
5	L.T.Shackle hardware	Pair	4	34.62	138.49
6	Earthing Sets L.T.	Set	1	162.57	162.57
7	L.T. Stay sets	Set	1	462.84	462.84
8	G.I.Stay Wire 7/3.15mm(10SWG)	Kg.	7.000	56.32	394.24
9	Painting/Hardware & support with numbering of pole	No	1	219.57	219.57
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	2.000	56.27	112.54
11	Sundries	LS	1	770.00	770.00
12	Concreting ration 1:4:8	Cmt.	0.30	2596.08	778.82
	Cost of material				**7995.26**

1	Transportation on material	4.00%	320
2	T&P on material cost	1.00%	80
3	Contigencies on material	0.50%	40
5	Erection cost on material	15.00%	1199
6	Contractor supervision charges on material	5.00%	400
7	Insurance , Labour & Finance Cost	2.50%	200
	Service Cost		**2239**
	Sub-Total		**10234**
8	Turnkey Charges	4.00%	409
	Total		**10643**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	13532	10643
Total Cost of the Estimate	13532	10643

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	5165.00	5165.00
2	Concreting ration 1:4:8	Cmt.	0.30	2596.08	778.82
	Cost of material				**5165.00**
1	Transportation on material	4.00%			207
2	T&P on material cost	1.00%			52
3	Contigencies on material	0.50%			26
5	Erection cost on material	15.00%			775
6	Contractor supervision charges on material	5.00%			258
7	Insurance , Labour & Finance Cost	2.50%			129
	Service Cost				**1446**
	Sub-Total				**6611**
8	Turnkey Charges	4.00%			264
	Total				**6876**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	8742	6876
Total Cost of the Estimate	8742	6876

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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	696.00	696.00
	Cost of material				**696.00**
1	Transportation on material	4.00%			28
2	T&P on material cost	1.00%			7
3	Contigencies on material	0.50%			3
5	Erection cost on material	15.00%			104
6	Contractor supervision charges on material	5.00%			35
7	Insurance , Labour & Finance Cost	2.50%			17
	Service Cost				**195**
	Sub-Total				**891**
8	Turnkey Charges	4.00%			36
	Total				**927**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1178	927
Total Cost of the Estimate	1178	927

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Item Code No. 6002					
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	1377.00	1377.00
	Cost of material				**1377.00**
1	Transportation on material	4.00%			55
2	T&P on material cost	1.00%			14
3	Contigencies on material	0.50%			7
5	Erection cost on material	15.00%			207
6	Contractor supervision charges on material	5.00%			69
7	Insurance , Labour & Finance Cost	2.50%			34
	Service Cost				**386**
	Sub-Total				**1763**
8	Turnkey Charges	4.00%			71
	Total				**1833**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2331	1833
Total Cost of the Estimate	2331	1833

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Item Code No. 6003					
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 abo	No.	1	13437.00	13437.00
	Cost of material				**13437.00**
1	Transportation on material	4.00%			537
2	T&P on material cost	1.00%			134
3	Contigencies on material	0.50%			67
5	Erection cost on material	15.00%			2016
6	Contractor supervision charges on material	5.00%			672
7	Insurance , Labour & Finance Cost	2.50%			336
	Service Cost				**3762**
	Sub-Total				**17199**
8	Turnkey Charges	4.00%			688
	Total				**17887**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	22742	17887
Total Cost of the Estimate	22742	17887

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Item Code No. 6106					
Replacement of Mini Pillars					
Sr. No.	**Particulars**	**Unit**	**Qty**	**Rate (Rs.)**	**Amount (Rs.)**
1	L.T. Mini Feedar Pillar	No	1	8400.00	8400.00
2	Earthing with GI pipe	No	2	268.81	537.62
3	Concreting ration 1:4:8	L. S.	1	2596.08	2596.08
4	G.I.Strip (25 X 3 mm)	KG	2	64.78	129.56
5	Sundries	L. S.	1	770.00	770.00
	Cost of material				**12433.26**

1	Transportation on material	4.00%	497
2	T&P on material cost	1.00%	124
3	Contigencies on material	0.50%	62
5	Erection cost on material	15.00%	1865
6	Contractor supervision charges on material	5.00%	622
7	Insurance , Labour & Finance Cost	2.50%	311
	Service Cost		**3481**
	Sub-Total		**15915**
8	Turnkey Charges	4.00%	637
	Total		**16551**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	21043	16551
Total Cost of the Estimate	21043	16551

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CIN: U40109MH2005SGC153645

Item Code No. 6201					
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 +	Set	1	480000.00	480000.00
2	11 kV heat shrinkable Indoor termination joint kit for 3 C X 185 sqmm	No	2	1537.49	3074.98
3	11 kV heat shrinkable Indoor termination joint kit for 3 C X 95 sqmm	No	1	1168.49	1168.49
4	Earthing with GI pipe	No	2	268.81	537.62
5	G.I.Strip (25 X 3 mm)	kg	2	64.78	129.56
6	Sundries such as N/B, Washers, Welding etc.	Ls	1	2750.00	2750.00
	Total Cost				**487660.65**

1	Transportation on material	4.00%	19506
2	T&P on material cost	1.00%	4877
3	Contigencies on material	0.50%	2438
5	Erection cost on material	15.00%	73149
6	Contractor supervision charges on material	5.00%	24383
7	Insurance , Labour & Finance Cost	2.50%	12192
	Service Cost		**136545**
	Sub-Total		**624206**
8	Turnkey Charges	4.00%	24968
	Total		**649174**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	825366	649174
Total Cost of the Estimate	825366	649174

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

Item Code No. 6202					
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 +	Set	1	480000.00	480000.00
2	Foundation Structure for RMU for Cable Entry Etc.	No	1	19143.00	19143.00
3	Earthing to equipment with Salt ,Coke, earthing strip Etc.	No	1	12299.90	12299.90
4	Sundries such as N/B, Washers, Welding etc.	kg	1	2750.00	2750.00
	Total Cost				**514192.90**
1	Transportation on material	4.00%			20568
2	T&P on material cost	1.00%			5142
3	Contigencies on material	0.50%			2571
5	Erection cost on material	15.00%			77129
6	Contractor supervision charges on material	5.00%			25710
7	Insurance , Labour & Finance Cost	2.50%			12855
	Service Cost				**143974**
	Sub-Total				**658167**
8	Turnkey Charges	4.00%			26327
	Total				**684494**
9	Foundation for RMU	LS	1	16315.00	16315
	Total Cost of Estimate				**700809**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	870271	684494
Foundation for RMU	16315	16315
Total Cost of the Estimate	886586	700809

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CIN: U40109MH2005SGC153645

Item Code No. 6203					
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 +	Set	1	530000.00	530000.00
2	Foundation Structure for RMU for Cable Entry Etc.	No	1	19143.00	19143.00
3	Earthing to equipment with Salt ,Coke, earthing strip Etc.	No	1	12299.90	12299.90
4	Sundries such as N/B, Washers, Welding etc.	kg	1	2750.00	2750.00
	Total Cost				**564192.90**
1	Transportation on material	4.00%			22568
2	T&P on material cost	1.00%			5642
3	Contigencies on material	0.50%			2821
5	Erection cost on material	15.00%			84629
6	Contractor supervision charges on material	5.00%			28210
7	Insurance , Labour & Finance Cost	2.50%			14105
	Service Cost				**157974**
	Sub-Total				**722167**
8	Turnkey Charges	4.00%			28887
	Total				**751054**
9	Foundation for RMU	LS	1	16315.00	16315
	Total Cost of Estimate				**767369**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	954896	751054
Foundation for RMU	16315	16315
Total Cost of the Estimate	971211	767369

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Item Code No. 6204					
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 +	Set	1	770000.00	770000.00
2	Foundation Structure for RMU for Cable Entry Etc.	No	1	19143.00	19143.00
3	Earthing to equipment with Salt ,Coke, earthing strip Etc.	No	1	12299.90	12299.90
4	Sundries such as N/B, Washers, Welding etc.	kg	1	2750.00	2750.00
	Total Cost				**804192.90**
1	Transportation on material	4.00%			32168
2	T&P on material cost	1.00%			8042
3	Contigencies on material	0.50%			4021
5	Erection cost on material	15.00%			120629
6	Contractor supervision charges on material	5.00%			40210
7	Insurance , Labour & Finance Cost	2.50%			20105
	Service Cost				**225174**
	Sub-Total				**1029367**
8	Turnkey Charges	4.00%			41175
	Total				**1070542**
9	Foundation for RMU	LS	1	16315.00	16315
	Total Cost of Estimate				**1086857**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	1361096	1070542
Foundation for RMU	16315	16315
Total Cost of the Estimate	1377411	1086857

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CIN: U40109MH2005SGC153645

Item Code No. 6701					
11KV A.B. Switch					
Sr.No	**Description**	**Unit**	**Qty.**	**Rate**	**Amount**
1	11KV A.B. Switch	Set	1	8400.00	8400.00
2	M.S. Flats(50 X 10mm)	Kg	25	47.55	1188.75
3	M.S.Channel 75x40x6 mm	Kg	43	50.78	2163.23
4	Sundries	LS	1	770.00	770.00
	Cost of Material				**12521.98**

1	Transportation on material	4.00%	501
2	T&P on material cost	1.00%	125
3	Contigencies on material	0.50%	63
5	Erection cost on material	15.00%	1878
6	Contractor supervision charges on material	5.00%	626
7	Insurance , Labour & Finance Cost	2.50%	313
	Service Cost		**3506**
	Sub-Total		**16028**
8	Turnkey Charges	4.00%	641
	Total		**16669**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	21193	16669
Total Cost of the Estimate	21193	16669

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CIN: U40109MH2005SGC153645

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	Set	1	8400.00	8400.00
2	MS Channel 100x50x6 mm	Kg	51	50.78	2569.47
3	M.S.Channel 75x40x6 mm	Kg	32	50.78	1624.96
4	H.T.Stay Set	Set	4	586.66	2346.64
5	Strain Hardware forWeasel/Squirrel	Set	10	178.40	1784.00
6	Disc Insulator 11 KV 7000 KG.	No	6	344.48	2066.88
7	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
8	Sundries	LS	1	770.00	770.00
9	Concreting ration 1:4:8	LS	2	2596.08	5192.16
	Cost of Material				**42900.11**

1	Transportation on material	4.00%	1716
2	T&P on material cost	1.00%	429
3	Contigencies on material	0.50%	215
5	Erection cost on material	15.00%	6435
6	Contractor supervision charges on material	5.00%	2145
7	Insurance , Labour & Finance Cost	2.50%	1073
	Service Cost		**12012**
	Sub-Total		**54912**
8	Turnkey Charges	4.00%	2196
	Total		**57109**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	72608	57109
Total Cost of the Estimate	72608	57109

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Maharashtra State Electricity Distribution Co. Ltd.
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CIN: U40109MH2005SGC153645

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	Set	1	12050.00	12050.00
2	RSJ 116x100, 9 m long	No	2	9073.00	18146.00
3	M.S.Channel 75x40x6 mm	Kg	55	50.78	2792.90
4	M.S. Flats(50 X 10mm)	Kg	10	47.55	475.50
5	Disc Insulator 11 KV 4500 KG.	No	12	244.47	2933.64
6	Strain Hardware forWeasel/Squirrel	Set	6	178.40	1070.40
7	H.T.Stay Set	Set	4	586.66	2346.64
8	G.I.Stay Wire 7/4mm(8 SWG)	Kg.	32.000	56.32	1802.24
9	Earthing Sets H.T	Set	2	335.51	671.02
10	G.I.Wire 8 SWG/ 6 SWG	Kg.	10.00	56.27	562.70
11	Sundries	LS	1	770.00	770.00
12	Concreting ration 1:4:8	LS	2	2596.08	5192.16
	Cost of Material				**48813.20**

1	Transportation on material	4.00%	1953
2	T&P on material cost	1.00%	488
3	Contigencies on material	0.50%	244
5	Erection cost on material	15.00%	7322
6	Contractor supervision charges on material	5.00%	2441
7	Insurance , Labour & Finance Cost	2.50%	1220
	Service Cost		**13668**
	Sub-Total		**62481**
8	Turnkey Charges	4.00%	2499
	Total		**64980**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	82616	64980
Total Cost of the Estimate	82616	64980

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Item Code No. 6725					
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	626.03	626.03
2	11 KV Top fitting with clamp	No	1	89.03	89.03
5	Sundries	LS	1	770.00	770.00
	Cost of Material				**1485.06**

1	Transportation on material	4.00%	59
2	T&P on material cost	1.00%	15
3	Contigencies on material	0.50%	7
5	Erection cost on material	15.00%	223
6	Contractor supervision charges on material	5.00%	74
7	Insurance , Labour & Finance Cost	2.50%	37
	Service Cost		**416**
	Sub-Total		**1901**
8	Turnkey Charges	4.00%	76
	Total		**1977**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	2513	1977
Total Cost of the Estimate	2513	1977

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(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 6726					
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	887.79	887.79
2	22 KV Top Fitting	No	1	374.36	374.36
5	Sundries	LS	1	770.00	770.00
	Cost of Material				**2032.15**

1	Transportation on material	4.00%	81
2	T&P on material cost	1.00%	20
3	Contigencies on material	0.50%	10
5	Erection cost on material	15.00%	305
6	Contractor supervision charges on material	5.00%	102
7	Insurance , Labour & Finance Cost	2.50%	51
	Service Cost		**569**
	Sub-Total		**2601**
8	Turnkey Charges	4.00%	104
	Total		**2705**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3439	2705
Total Cost of the Estimate	3439	2705

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CIN: U40109MH2005SGC153645

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	887.79	887.79
2	33 KV Top Fitting	No	1	374.36	374.36
5	Sundries	LS	1	770.00	770.00
	Cost of Material				**2032.15**

1	Transportation on material	4.00%	81
2	T&P on material cost	1.00%	20
3	Contigencies on material	0.50%	10
5	Erection cost on material	15.00%	305
6	Contractor supervision charges on material	5.00%	102
7	Insurance , Labour & Finance Cost	2.50%	51
	Service Cost		**569**
	Sub-Total		**2601**
8	Turnkey Charges	4.00%	104
	Total		**2705**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	3439	2705
Total Cost of the Estimate	3439	2705

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 6730					
DP structure & reinstallment 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	9073.00	18146.00
2	MS Channel 100x50x6 mm	Kg	100	50.78	5078.00
3	M.S.Channel 75x40x6 mm	Kg	44	50.78	2234.32
4	MS angle 50x50x6 mm	Kg	22	50.78	1117.16
5	M.S.Flat 50 x 6 mm	Kg	24	48.20	1156.80
6	22 kV Pin Insulators with G.I. Pins	No	3	335.98	1007.93
7	L.T.Dist.Boxes 100 KVA with KITKAT	No	1	14209.00	14209.00
8	L.A.s 22KV (Gapless type) with disconnector	Set	1	2200.00	2200.00
9	H.T.Stay Set	Set	4	586.66	2346.64
10	Earthing Sets H.T	Set	5	335.51	1677.55
11	22KV H.G.Fuses	Set	1	4050.00	4050.00
12	22KV A.B.Switch	Set	1	12050.00	12050.00
13	Danger Board in yard.	No	2	50.00	100.00
14	Painting/Hardware & support with numbering of pole	LS	1	219.57	219.57
15	Sundries	LS	1	770.00	770.00
16	Concreting ration 1:4:8	LS	2	2596.08	5192.16
	Cost of Material				**66362.97**

1	Transportation on material	4.00%	2655
2	T&P on material cost	1.00%	664
3	Contigencies on material	0.50%	332
5	Erection cost on material	15.00%	9954
6	Contractor supervision charges on material	5.00%	3318
7	Insurance , Labour & Finance Cost	2.50%	1659
	Service Cost		**18582**
	Sub-Total		**84945**
8	Turnkey Charges	4.00%	3398
	Total		**88342**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	112319	88342
Total Cost of the Estimate	112319	88342

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

Item Code No. 6731					
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	486679.75	12166993.77
II)					
1	Disc Insulator 11 KV 7000 KG.	No	1600	344.48	551168.00
2	AAAC 232 mm2	Km	14	124.91	1748.74
3	Strain Hardware for AAAC232 sq.mm.	No	315	602.56	189806.40
4	0.2 ACSR or equivalent AAAC Loop Connector	No	615	820.00	504300.00
5	Suspension Hardware for 0.2 ACSR or equivalent AAAC	No	45	338.89	15250.05
6	Sundries Nutbolts,Binding Tapes wire etc.	L.S.	1	18000.00	18000.00
	Cost of material				**13447266.96**

1	Transportation on material	4.00%	537891
2	T&P on material cost	1.00%	134473
3	Contigencies on material	0.50%	67236
5	Erection cost on material	15.00%	2017090
6	Contractor supervision charges on material	5.00%	672363
7	Insurance , Labour & Finance Cost	2.50%	336182
	Service Cost		**3765235**
	Sub-Total		**17212502**
8	Turnkey Charges	4.00%	688500
	Total		**17901002**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	69.25%	**33.12%**
Cost with overheads on Material	22759499	17901002
Total Cost of the Estimate	22759499	17901002

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CIN: U40109MH2005SGC153645

Item Code No. 6732					
Replacement of Elecromagnetic 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	23007.27	23007.27
	Cost of material				23007.27
1	Transportation on material	4.00%			920
2	T&P on material cost	1.00%			230
3	Contigencies on material	0.50%			115
5	Erection cost on material	15.00%			3451
6	Contractor supervision charges on material	5.00%			1150
7	Insurance , Labour & Finance Cost	2.50%			575
	Service Cost				**6442**
	Sub-Total				**29449**
8	Turnkey Charges	4.00%			1178
	Total				**30627**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	35988	28235
Total Cost of the Estimate	35988	28235

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	3129000.00	3129000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1350000.00	1350000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1700000.00	1700000.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1640.80	328160.00
6	33 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
8	33 KV Lightning Arrestors (Station type)	Set	4	13094.00	52376.00
9	33 KV Post Insulator	Nos	6	917.65	5505.93
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	900000.00	900000.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	3	850000.00	2550000.00
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1285000.00	0.00
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1130.43	2260860.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1661.61	79757.28
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
16	Earthing complete as per Sheet no.2	Set	2	239553.08	479106.15
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	266366.70	532733.40
18	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
19	Clamps and Connectors as per Sheet no.5	No.	1	251351.40	251351.40
20	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
21	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
22	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	197901.30	197901.30
	Cost of material				**17773290.34**

1	Transportation on material	4.00%		710932
2	T&P on material cost	1.00%		177733
3	Contigencies on material	0.50%		88866
5	Erection cost on material	5.00%		888665
6	Contractor supervision charges on material	5.00%		888665
7	Insurance , Labour & Finance Cost	2.50%		444332
	Service Cost			**3199192**
	Sub-Total			**20972483**
8	Turnkey Charges	4.00%		838899
	Total			**21811382**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4199260**
	Total Cost of Estimate			**26010641**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	27800981	21811382
Civil Works As per Sheet 'C'	5352413	4199260
Total Cost of the Estimate	33153394	26010641

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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(6Nos.)-496.0 kg.	MT	2.976	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm^2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**266366.70**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	**251351.40**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	0.00	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4199259.54**	

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Maharashtra State Electricity Distribution Co. Ltd.
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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	3129000.00	3129000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1350000.00	1350000.00
4	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1640.80	328160.00
5	33 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
6	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
7	33 KV Lightning Arrestors (Station type)	Set	4	13094.00	52376.00
8	33 KV Post Insulator	Nos	6	917.65	5505.93
9	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
10	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1639051.62	1639051.62
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1130.43	339129.00
12	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	4	1661.61	6646.44
	Clamps and Connectors as per Sheet no.4	Mtr.	1	273289.14	273289.14
14	S/S Yard lighting as per Sheet no.5	No.	1	159346.86	159346.86
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	194051.30	194051.30
17	Control cables for S/S as per Sheet no.7	No.	1	88206.10	88206.10
18	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**11200322.49**

1	Transportation on material	4.00%		448013
2	T&P on material cost	1.00%		112003
3	Contigencies on material	0.50%		56002
5	Erection cost on material	5.00%		560016
6	Contractor supervision charges on material	5.00%		560016
7	Insurance , Labour & Finance Cost	2.50%		280008
	Service Cost			**2016058**
	Sub-Total			**13216381**
8	Turnkey Charges	4.00%		528655
	Total			**13745036**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4199260**
	Total Cost of Estimate			**17944295**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	17519544	13745036
Civil Works As per Sheet 'C'	5352413	4199260
Total Cost of the Estimate	22871958	17944295

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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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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	61.55	92325.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2750.00	2750.00
				Total:	**261558.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**273289.14**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cum	6	210.13	1260.78
8	Sundries	L.S.	1	770.00	770.00
				Total:	**159346.86**

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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	0.00	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4199259.54**	

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	3129000.00	6258000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1350000.00	2700000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1700000.00	1700000.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1640.80	328160.00
6	33 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
8	33 KV Lightning Arrestors (Station type)	Set	4	13094.00	52376.00
9	33 KV Post Insulator	Nos	6	917.65	5505.93
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	900000.00	1800000.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	6	850000.00	5100000.00
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1285000.00	1285000.00
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1130.43	2260860.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1661.61	79757.28
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
17	Earthing complete as per Sheet no.2	Set	2	239553.08	479106.15
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	266366.70	532733.40
19	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
20	Clamps and Connectors as per Sheet no.5	No.	1	251351.40	251351.40
21	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
22	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
23	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	197901.30	197901.30
	Cost of material				**26987290.34**

1	Transportation on material	4.00%		1079492
2	T&P on material cost	1.00%		269873
3	Contigencies on material	0.50%		134936
5	Erection cost on material	5.00%		1349365
6	Contractor supervision charges on material	5.00%		1349365
7	Insurance , Labour & Finance Cost	2.50%		674682
	Service Cost			**4857712**
	Sub-Total			**31845003**
8	Turnkey Charges	4.00%		1273800
	Total			**33118803**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4419951**
	Total Cost of Estimate			**37538754**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	42213520	33118803
Civil Works As per Sheet 'C'	5633709	4419951
Total Cost of the Estimate	47847229	37538754

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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(6Nos.)-496.0 kg.	MT	2.976	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm^2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**266366.70**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	**251351.40**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	1	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	220691.90	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4419951.44**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	3129000.00	6258000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1350000.00	2700000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1700000.00	1700000.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1640.80	328160.00
6	33 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
8	33 KV Lightning Arrestors (Station type)	Set	4	13094.00	52376.00
9	33 KV Post Insulator	Nos	6	917.65	5505.93
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1639051.62	1639051.62
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1130.43	678258.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1661.61	13292.88
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	273289.14	273289.14
15	S/S Yard lighting as per Sheet no.5	No.	1	159346.86	159346.86
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	194051.30	194051.30
18	Control cables for S/S as per Sheet no.7	No.	1	88206.10	88206.10
19	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**17725097.93**

1	Transportation on material	4.00%		709004
2	T&P on material cost	1.00%		177251
3	Contigencies on material	0.50%		88625
5	Erection cost on material	5.00%		886255
6	Contractor supervision charges on material	5.00%		886255
7	Insurance , Labour & Finance Cost	2.50%		443127
	Service Cost			**3190518**
	Sub-Total			**20915616**
8	Turnkey Charges	4.00%		836625
	Total			**21752240**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4419951**
	Total Cost of Estimate			**26172192**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	27725598	21752240
Civil Works As per Sheet 'C'	5633709	4419951
Total Cost of the Estimate	33359307	26172192

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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(6Nos.)-496.0 kg.	MT	2.976	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	61.55	92325.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2750.00	2750.00
				Total:	**261558.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**273289.14**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cum	6	210.13	1260.78
8	Sundries	L.S.	1	770.00	770.00
				Total:	**159346.86**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	220691.90	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4419951.44**	

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	5233333.00	5233333.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1350000.00	1350000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1700000.00	1700000.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1640.80	328160.00
6	33 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
8	33 KV Lightning Arrestors (Station type)	Set	4	13094.00	52376.00
9	33 KV Post Insulator	Nos	6	917.65	5505.93
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	900000.00	900000.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	4	850000.00	3400000.00
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1285000.00	0.00
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1130.43	2260860.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1661.61	79757.28
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
16	Earthing complete as per Sheet no.2	Set	2	239553.08	479106.15
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	337834.47	675668.93
18	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
19	Clamps and Connectors as per Sheet no.5	No.	1	251351.40	251351.40
20	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
21	S/S Yard lighting as per Sheet no.7	No.	1	188609.50	188609.50
22	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	197901.30	197901.30
	Cost of material				**20896636.37**

1	Transportation on material	4.00%		835865
2	T&P on material cost	1.00%		208966
3	Contigencies on material	0.50%		104483
5	Erection cost on material	5.00%		1044832
6	Contractor supervision charges on material	5.00%		1044832
7	Insurance , Labour & Finance Cost	2.50%		522416
	Service Cost			**3761395**
	Sub-Total			**24658031**
8	Turnkey Charges	4.00%		986321
	Total			**25644352**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4199260**
	Total Cost of Estimate			**29843612**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	32686519	25644352
Civil Works As per Sheet 'C'	5352413	4199260
Total Cost of the Estimate	38038932	29843612

MSEDCL

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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for0.2 ACSR	Nos.	36	608.86	21918.96
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm^2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors			0.00	
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**337834.47**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	**251351.40**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	Armoured Copper control cable 4C X 2.5 Sq mm	Mtr.	250	180.20	45050.00
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**188609.50**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	0.00	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4199259.54**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	5233333.00	5233333.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	1	1350000.00	1350000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1350000.00	1350000.00
4	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1640.80	328160.00
5	33 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
6	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
7	33 KV Lightning Arrestors (Station type)	Set	4	13094.00	52376.00
8	33 KV Post Insulator	Nos	6	917.65	5505.93
9	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
10	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1639051.62	1639051.62
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1130.43	339129.00
12	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	4	1661.61	6646.44
13	Clamps and Connectors as per Sheet no.4	Mtr.	1	390606.90	390606.90
14	S/S Yard lighting as per Sheet no.5	No.	1	159346.86	159346.86
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	194051.30	194051.30
17	Control cables for S/S as per Sheet no.7	No.	1	88206.10	88206.10
18	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**12071973.25**

1	Transportation on material	4.00%		482879
2	T&P on material cost	1.00%		120720
3	Contigencies on material	0.50%		60360
5	Erection cost on material	5.00%		603599
6	Contractor supervision charges on material	5.00%		603599
7	Insurance , Labour & Finance Cost	2.50%		301799
	Service Cost			**2172955**
	Sub-Total			**14244928**
8	Turnkey Charges	4.00%		569797
	Total			**14814726**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4199260**
	Total Cost of Estimate			**19013985**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	18882981	14814726
Civil Works As per Sheet 'C'	5352413	4199260
Total Cost of the Estimate	24235394	19013985

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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(6Nos.)-496.0 kg.	MT	2.976	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	61.55	92325.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2750.00	2750.00
				Total:	**261558.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
7	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	Nos.	30	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	**390606.90**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cum	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**159346.86**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	0.00	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4199259.54**	

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Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	5233333.00	10466666.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1350000.00	2700000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1700000.00	1700000.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	Mtr.	200	1640.80	328160.00
6	33 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
8	33 KV Lightning Arrestors (Station type)	Set	4	13094.00	52376.00
9	33 KV Post Insulator	Nos	6	917.65	5505.93
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	900000.00	1800000.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	8	850000.00	6800000.00
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1285000.00	1285000.00
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1130.43	2260860.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1661.61	79757.28
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
17	Earthing complete as per Sheet no.2	Set	2	239553.08	479106.15
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	337834.47	675668.93
19	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
20	Clamps and Connectors as per Sheet no.5	No.	1	251351.40	251351.40
21	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
22	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
23	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	197901.30	197901.30
	Cost of material				**33038891.87**

1	Transportation on material	4.00%		1321556
2	T&P on material cost	1.00%		330389
3	Contigencies on material	0.50%		165194
5	Erection cost on material	5.00%		1651945
6	Contractor supervision charges on material	5.00%		1651945
7	Insurance , Labour & Finance Cost	2.50%		825972
	Service Cost			**5947001**
	Sub-Total			**38985892**
8	Turnkey Charges	4.00%		1559436
	Total			**40545328**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4419951**
	Total Cost of Estimate			**44965280**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	51679435	40545328
Civil Works As per Sheet 'C'	5633709	4419951
Total Cost of the Estimate	57313144	44965280

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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(6Nos.)-496.0 kg.	MT	2.976	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for0.2 ACSR	Nos.	36	608.86	21918.96
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm^2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**337834.47**

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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
				Total:	**251351.40**

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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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	220691.90	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4419951.44**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	5233333.00	10466666.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1350000.00	2700000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	Mtr.	1	1700000.00	1700000.00
5	XLPE Cable 33 KV, 3 C / 300 mm sq.	No.	200	1640.80	328160.00
6	33 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	Set	8	67830.00	542640.00
7	33 KV Isolators with EB (800 A)	Set	2	57000.00	114000.00
8	33 KV Lightning Arrestors (Station type)	Nos	4	13094.00	52376.00
9	33 KV Post Insulator	Nos	6	917.65	5505.93
10	Gantry Structure/Steel section for 33 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11kV I D switchgear (2 I/c+1 B/c+8O/G)	No	1	3005005.74	3005005.74
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1130.43	678258.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1661.61	13292.88
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	452471.40	452471.40
15	S/S Yard lighting as per Sheet no.5	No.	1	162532.00	162532.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	194051.30	194051.30
18	Control cables for S/S as per Sheet no.7	No.	1	178665.20	178665.20
19	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**23572544.56**

1	Transportation on material	4.00%		942902
2	T&P on material cost	1.00%		235725
3	Contigencies on material	0.50%		117863
5	Erection cost on material	5.00%		1178627
6	Contractor supervision charges on material	5.00%		1178627
7	Insurance , Labour & Finance Cost	2.50%		589314
	Service Cost			**4243058**
	Sub-Total			**27815603**
8	Turnkey Charges	4.00%		1112624
	Total			**28928227**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4419951**
	Total Cost of Estimate			**33348178**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	36872174	28928227
Civil Works As per Sheet 'C'	5633709	4419951
Total Cost of the Estimate	42505883	33348178

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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(6Nos.)-496.0 kg.	MT	2.976	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
7	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	Nos.	30	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	**452471.40**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	220691.90	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4419951.44**	

MSEDCL

MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	3095000.00	3095000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1350000.00	1350000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1700000.00	1700000.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1409.00	281800.00
6	22 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	16324.72	130597.72
7	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
8	22 KV Lightning Arrestors (Station type)	Set	4	11467.00	45868.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	900000.00	900000.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	3	850000.00	2550000.00
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1285000.00	0.00
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1130.43	2260860.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1661.61	79757.28
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
16	Earthing complete as per Sheet no.2	Set	2	239553.08	479106.15
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	266366.70	532733.40
18	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
19	Clamps and Connectors as per Sheet no.5	No.	1	183451.93	183451.93
20	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
21	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
22	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	195504.70	195504.70
	Cost of material				**17176788.06**

1	Transportation on material	4.00%		687072
2	T&P on material cost	1.00%		171768
3	Contigencies on material	0.50%		85884
5	Erection cost on material	5.00%		858839
6	Contractor supervision charges on material	5.00%		858839
7	Insurance , Labour & Finance Cost	2.50%		429420
	Service Cost			**3091822**
	Sub-Total			**20268610**
8	Turnkey Charges	4.00%		810744
	Total			**21079354**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4199260**
	Total Cost of Estimate			**25278614**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	26867932	21079354
Civil Works As per Sheet 'C'	5352413	4199260
Total Cost of the Estimate	32220345	25278614

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm^2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors			0.00	
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**266366.70**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
				Total:	**183451.93**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
					162532.00

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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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**195504.70**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	0.00	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4199259.54**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	3095000.00	3095000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	1	1350000.00	1350000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1350000.00	1350000.00
4	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1409.00	281800.00
5	22 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	16324.72	130597.72
6	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
7	22 KV Lightning Arrestors (Station type)	Set	4	11467.00	45868.00
8	22 KV Post Insulator	Nos	6	835.00	5010.00
9	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
10	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1639051.62	1639051.62
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1130.43	339129.00
12	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	4	1661.61	6646.44
13	Clamps and Connectors as per Sheet no.4	Mtr.	1	273289.14	273289.14
14	S/S Yard lighting as per Sheet no.5	No.	1	159346.86	159346.86
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	194051.30	194051.30
17	Control cables for S/S as per Sheet no.7	No.	1	88206.10	88206.10
18	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**9324116.28**

1	Transportation on material	4.00%		372965
2	T&P on material cost	1.00%		93241
3	Contigencies on material	0.50%		46621
5	Erection cost on material	5.00%		466206
6	Contractor supervision charges on material	5.00%		466206
7	Insurance , Labour & Finance Cost	2.50%		233103
	Service Cost			**1678341**
	Sub-Total			**11002457**
8	Turnkey Charges	4.00%		440098
	Total			**11442556**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4199260**
	Total Cost of Estimate			**15641815**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	14584783	11442556
Civil Works As per Sheet 'C'	5352413	4199260
Total Cost of the Estimate	19937196	15641815

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	61.55	92325.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2750.00	2750.00
				Total:	**261558.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
				Total:	**273289.14**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cum	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**159346.86**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	0.00	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4199259.54**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	3095000.00	6190000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1350000.00	2700000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1700000.00	1700000.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1409.00	281800.00
6	22 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	16324.72	130597.72
7	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
8	22 KV Lightning Arrestors (Station type)	Set	4	11467.00	45868.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	900000.00	1800000.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	6	850000.00	5100000.00
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1285000.00	1285000.00
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1130.43	2260860.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1661.61	79757.28
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
17	Earthing complete as per Sheet no.2	Set	2	239553.08	479106.15
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	266366.70	532733.40
19	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
20	Clamps and Connectors as per Sheet no.5	No.	1	183451.93	183451.93
21	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
22	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
23	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	195504.70	195504.70
	Cost of material				**26356788.06**

1	Transportation on material	4.00%		1054272
2	T&P on material cost	1.00%		263568
3	Contigencies on material	0.50%		131784
5	Erection cost on material	5.00%		1317839
6	Contractor supervision charges on material	5.00%		1317839
7	Insurance , Labour & Finance Cost	2.50%		658920
	Service Cost			**4744222**
	Sub-Total			**31101010**
8	Turnkey Charges	4.00%		1244040
	Total			**32345050**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4419951**
	Total Cost of Estimate			**36765002**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	41227288	32345050
Civil Works As per Sheet 'C'	5633709	4419951
Total Cost of the Estimate	46860997	36765002

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Disc Insulator 11 KV 7000 KG.	Nos.	36	344.48	12401.28
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 100 mm^2	Rmt.	150	50.80	7620.00
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors			#N/A	
a)	DOG TO DOG or equivalent AAAC	Nos.	18	558.59	10054.66
b)	T-Connector for 100 sq mm conductor	Nos.	18	733.15	13196.74
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**266366.70**

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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	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
				Total:	**183451.93**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cmt	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
					162532.00

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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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	10	170.70	1707.00
11	L.T. XLPE armoured cable 3 1/2 C 50 sq.mm.	Rmt.	50	145.97	7298.50
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**195504.70**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	220691.90	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4419951.44**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	3095000.00	6190000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1350000.00	2700000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1700000.00	1700000.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1409.00	281800.00
6	22 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	16324.72	130597.72
7	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
8	22 KV Lightning Arrestors (Station type)	Set	4	11467.00	45868.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11kV I D switchgear (2 I/c+1 B/c+8O/G)	No	1	3005005.74	3005005.74
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1130.43	678258.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1661.61	13292.88
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	452471.40	452471.40
15	S/S Yard lighting as per Sheet no.5	No.	1	162532.00	162532.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	194051.30	194051.30
18	Control cables for S/S as per Sheet no.7	No.	1	178665.20	178665.20
19	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**18803672.36**

1	Transportation on material	4.00%		752147
2	T&P on material cost	1.00%		188037
3	Contigencies on material	0.50%		94018
5	Erection cost on material	5.00%		940184
6	Contractor supervision charges on material	5.00%		940184
7	Insurance , Labour & Finance Cost	2.50%		470092
	Service Cost			**3384661**
	Sub-Total			**22188333**
8	Turnkey Charges	4.00%		887533
	Total			**23075867**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4419951**
	Total Cost of Estimate			**27495818**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	29412704	23075867
Civil Works As per Sheet 'C'	5633709	4419951
Total Cost of the Estimate	35046414	27495818

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
7	Wedge Connectors			#N/A	
a)	DOG TO DOG or equivalent AAAC	Nos.	30	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	**452471.40**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	220691.90	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4419951.44**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	5205000.00	5205000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1350000.00	1350000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1700000.00	1700000.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1409.00	281800.00
6	22 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	16324.72	130597.72
7	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
8	22 KV Lightning Arrestors (Station type)	Set	4	11467.00	45868.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	1	900000.00	900000.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	4	850000.00	3400000.00
	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	0	1285000.00	0.00
13	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1130.43	2260860.00
14	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1661.61	79757.28
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
16	Earthing complete as per Sheet no.2	Set	2	239553.08	479106.15
17	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	337012.95	674025.89
18	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
19	Clamps and Connectors as per Sheet no.5	No.	1	188239.93	188239.93
20	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
21	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
22	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
23	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	197901.30	197901.30
	Cost of material				**20285265.15**

1	Transportation on material	4.00%		811411
2	T&P on material cost	1.00%		202853
3	Contigencies on material	0.50%		101426
5	Erection cost on material	5.00%		1014263
6	Contractor supervision charges on material	5.00%		1014263
7	Insurance , Labour & Finance Cost	2.50%		507132
	Service Cost			**3651348**
	Sub-Total			**23936613**
8	Turnkey Charges	4.00%		957465
	Total			**24894077**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4199260**
	Total Cost of Estimate			**29093337**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	31730212	24894077
Civil Works As per Sheet 'C'	5352413	4199260
Total Cost of the Estimate	37082625	29093337

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Strain Hardware for0.2 ACSR	Nos.	36	608.86	21918.96
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm^2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**337012.95**

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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	718.19	21545.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
				Total:	**188239.93**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

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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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	0.00	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4199259.54**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	5205000.00	5205000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	1	1350000.00	1350000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	1	1350000.00	1350000.00
4	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1409.00	281800.00
5	22 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	16324.72	130597.72
6	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
7	22 KV Lightning Arrestors (Station type)	Set	4	11467.00	45868.00
8	22 KV Post Insulator	Nos	6	835.00	5010.00
9	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
10	11kV I D switchgear (1 I/c+1 B/c+4O/G)	No	1	1639051.62	1639051.62
11	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	300	1130.43	339129.00
12	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	4	1661.61	6646.44
13	Clamps and Connectors as per Sheet no.4	Mtr.	1	390606.90	390606.90
14	S/S Yard lighting as per Sheet no.5	No.	1	159346.86	159346.86
15	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
16	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	194051.30	194051.30
17	Control cables for S/S as per Sheet no.7	No.	1	88206.10	88206.10
18	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**11551434.04**

1	Transportation on material	4.00%		462057
2	T&P on material cost	1.00%		115514
3	Contigencies on material	0.50%		57757
5	Erection cost on material	5.00%		577572
6	Contractor supervision charges on material	5.00%		577572
7	Insurance , Labour & Finance Cost	2.50%		288786
	Service Cost			**2079258**
	Sub-Total			**13630692**
8	Turnkey Charges	4.00%		545228
	Total			**14175920**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4199260**
	Total Cost of Estimate			**18375179**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	18068753	14175920
Civil Works As per Sheet 'C'	5352413	4199260
Total Cost of the Estimate	23421167	18375179

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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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	61.55	92325.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries such as N/B, Washers, Welding etc.	L.S.	1	2750.00	2750.00
				Total:	**261558.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	24	992.44	23818.56
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 33 KV C.T.	Nos.	6	1450.00	8700.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	6	2100.00	12600.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	**390606.90**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	7	2596.08	18172.58
6	Red Bricks	No.	1000	2.42	2420.00
7	Sand	Cum	6	210.13	1260.78
8	Sundries	L.S.	-	770.00	770.00
				Total:	**159346.86**

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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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	39920.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	130	211.92	27549.60
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	55	180.20	9911.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	50	55.73	2786.50
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	100	75.89	7589.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**88206.10**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	0.00	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4199259.54**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	5205000.00	10410000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1350000.00	2700000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	No.	1	1700000.00	1700000.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	Mtr.	200	1409.00	281800.00
6	22 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	No.	8	16324.72	130597.72
7	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
8	22 KV Lightning Arrestors (Station type)	Set	4	11467.00	45868.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11 KV Indoor GIS Switchgear (I/C) 800 A	No	2	900000.00	1800000.00
12	11 KV Indoor GIS Switchgear (O/G) 400A	No.	8	850000.00	6800000.00
13	11 KV GIS Bus bar with Buscoupler and Bus riser 800 A	No	1	1285000.00	1285000.00
14	XLPE Cable 11 KV, 3 C / 300 mm sq.	Mtr.	2000	1130.43	2260860.00
15	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No.	48	1661.61	79757.28
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
17	Earthing complete as per Sheet no.2	Set	2	239553.08	479106.15
18	Take off structure for 3 outgoing feeder as per Sheet no.4	No.	2	337012.95	674025.89
19	11 kV Pin Insulators with G.I. Pins	No.	24	135.11	3242.53
20	Clamps and Connectors as per Sheet no.5	No.	1	188239.93	188239.93
21	L.As. 11 KV (Gapless type) with disconector	Set	2	1100.00	2200.00
22	S/S Yard lighting as per Sheet no.7	No.	1	162532.00	162532.00
23	Control cables for S/S as per Sheet no.9	No.	1	178665.20	178665.20
24	11/0.43 KV x 100 KVA station Transformer as per Sheet no.8	No.	1	197901.30	197901.30
	Cost of material				**32425265.15**

1	Transportation on material	4.00%		1297011
2	T&P on material cost	1.00%		324253
3	Contigencies on material	0.50%		162126
5	Erection cost on material	5.00%		1621263
6	Contractor supervision charges on material	5.00%		1621263
7	Insurance , Labour & Finance Cost	2.50%		810632
	Service Cost			**5836548**
	Sub-Total			**38261813**
8	Turnkey Charges	4.00%		1530473
	Total			**39792285**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4419951**
	Total Cost of Estimate			**44212237**

Perticulars	DPR Amount	Tender/ Estimate Amount
	56.42%	**22.72%**
Cost with overheads on Material	50719600	39792285
Civil Works As per Sheet 'C'	5633709	4419951
Total Cost of the Estimate	56353309	44212237

MSEDCL

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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	50.78	15995.70
2	Structure for 22 KV CT	Kg.	360	50.78	18280.80
3	Structure for 22 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	9073.00	72584.00
2	MS Channel 100x50x6 mm	Kg.	1610	50.78	81755.80
3	MS angle 50x50x6 mm	Kg.	100	50.78	5078.00
4	MS Flat 75x10 mm	Kg.	80	47.55	3804.00
5	11KV A.B. Switch	Nos.	3	8400.00	25200.00
6	Strain Hardware for0.2 ACSR	Nos.	36	608.86	21918.96
7	Strain Hardware for Dog0.1 or Equ.AAAC.	Nos.	36	321.66	11579.76
8	11 kV Pin Insulators with G.I. Pins	Nos.	9	135.11	1215.95
9	Earthing Sets H.T	Sets	3	335.51	1006.53
10	L.As. 11 KV (Gapless type) with disconector	Sets	3	1100.00	3300.00
11	AAAC 232 mm^2	Rmt.	150	124.91	18736.50
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	G.I.Nut Bolts	Kg.	50	82.89	4144.46
14	Concreting ration 1:4:8	Cmt.	4	2596.08	10384.33
15	Wedge Connectors				
a)	PANTHER TO PANTHER or equivalent AAAC	Nos.	18	718.19	12927.46
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	18	3352.00	60336.00
16	Miscelleneous material	LS	1	450.00	450.00
				Total:	**337012.95**

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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	718.19	21545.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
2	Clamps for 22 KV Isolator	Nos.	18	1020.13	18362.30
3	Connectors for T/F Bushing	Nos.	6	3783.43	22700.58
4	Clamps for 22 KV C.T.	Nos.	6	1425.46	8552.75
5	Clamps for 22 KV P.T.	Nos.	3	1425.46	4276.38
6	Clamp for 22 KV VCB	Nos.	6	2040.36	12242.16
				Total:	**188239.93**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

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	50.78	14726.20
2	M.S.Channel 75x40x6 mm	Kg.	15	50.78	761.70
3	MS Flat 75x10 mm	Kg.	20	47.55	951.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV A.B. Switch	Set	1	8400.00	8400.00
7	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
8	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
9	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
10	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
11	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
12	Earthing Sets H.T	Nos.	3	335.51	1006.53
13	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
14	Coal	Kg.	200	5.54	1108.00
15	Salt	Kg.	200	6.00	1200.00
16	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
17	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
18	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**197901.30**

MSEDCL

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	220691.90	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4419951.44**	

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MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(A Govt. of Maharashtra Undertaking)
CIN: U40109MH2005SGC153645

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	5205000.00	10410000.00
2	33 KV Indoor GIS Switchgear (I/C) 1250A	No.	2	1350000.00	2700000.00
3	33 KV Indoor GIS Switchgear (O/G TF) 1250A	No.	2	1350000.00	2700000.00
4	33 KV GIS Bus bar with Buscoupler and Bus riser 1250 A	Mtr.	1	1700000.00	1700000.00
5	XLPE Cable 22 KV, 3 C / 300 mm sq.	No.	200	1409.00	281800.00
6	22 kV Silicon coated touchproof Indoor termination joint (Al) kit for XLPE 3 C X 300 sqmm	Set	8	16324.72	130597.72
7	22 KV Isolators with EB (800 A)	Set	2	43600.00	87200.00
8	22 KV Lightning Arrestors (Station type)	Nos	4	11467.00	45868.00
9	22 KV Post Insulator	Nos	6	835.00	5010.00
10	Gantry Structure/Steel section for 22 KV Bus as per Sheet No.1	Nos	1	183259.15	183259.15
B	**11 kV Switchgear part**				
11	11kV I D switchgear (2 I/c+1 B/c+8O/G)	No	1	3005005.74	3005005.74
12	XLPE Cable 11 KV, 3 C / 300 mm sq.	No.	600	1130.43	678258.00
13	11 kV heat shrinkable Indoor termination joint kit for 3 C X 300 sqmm	No	8	1661.61	13292.88
14	Clamps and Connectors as per Sheet no.4	Mtr.	1	452471.40	452471.40
15	S/S Yard lighting as per Sheet no.5	No.	1	162532.00	162532.00
16	Battery set 30 Volt, 100 AH with Battery charger	No.	1	70000.00	70000.00
17	11/0.43 KV x 100 KVA station Transformer as per Sheet no.6	Set	1	194051.30	194051.30
18	Control cables for S/S as per Sheet no.7	No.	1	178665.20	178665.20
19	AC Distribution Board 'B' type	No.	1	25660.96	25660.96
	Cost of material				**23023672.36**

1	Transportation on material	4.00%		920947
2	T&P on material cost	1.00%		230237
3	Contigencies on material	0.50%		115118
5	Erection cost on material	5.00%		1151184
6	Contractor supervision charges on material	5.00%		1151184
7	Insurance , Labour & Finance Cost	2.50%		575592
	Service Cost			**4144261**
	Sub-Total			**27167933**
8	Turnkey Charges	4.00%		1086717
	Total			**28254651**
9	**Civil Works As per Sheet 'C'**	**No.**	**1**	**4419951**
	Total Cost of Estimate			**32674602**

Perticulars	**DPR Amount**	**Tender/ Estimate Amount**
	56.42%	**22.72%**
Cost with overheads on Material	36013628	28254651
Civil Works As per Sheet 'C'	5633709	4419951
Total Cost of the Estimate	41647338	32674602

MSEDCL

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	45587.00	135666.91
2	Beam type HA(4 Nos.)-261.0 Kg.	MT	1.044	45586.44	47592.24
				Total:	**183259.15**

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	48.20	72300.00
2	Earthing Sets H.T of C.I.pipe 150 mm 3 mtr.	No.	22	6638.26	146041.68
3	Coal	Kg.	1310	5.54	7257.40
4	Salt	Kg.	1310	6.00	7860.00
5	RCC Ring work for earthing pits	No.	22	242.00	5324.00
6	Sundries	L.S.	1	770.00	770.00
				Total:	**239553.08**

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	50.78	15995.70
2	Structure for 33 KV CT	Kg.	360	50.78	18280.80
3	Structure for 33 KV L.A.	Kg.	155	50.78	7870.90
4	Structure for Power T/F Neutral Earthing	Kg.	50	50.78	2539.00
5	G.I.Nut Bolts	Kg.	30	82.89	2486.68
				Total:	**47173.08**

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	3352.00	201120.00
2	Clamps for 33 KV Isolator	Nos.	42	992.44	41682.48
3	Connectors for T/F Bushing	Nos.	12	3783.43	45401.16
4	Clamps for 33 KV C.T.	Nos.	12	1450.00	17400.00
5	Clamps for 33 KV P.T.	Nos.	3	1450.00	4350.00
6	Clamps for 33 KV V.C.B.	Nos.	12	2100.00	25200.00
7	Wedge Connectors				
a)	DOG TO DOG or equivalent AAAC	Nos.	30	558.59	16757.76
b)	T-Connector for 200 sq mm conductor(Compression type)	Nos.	30	3352.00	100560.00
				Total:	**452471.40**

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	3060.00	42840.00
2	Tubular pole 9 Mtr. Long 88.9C, 137.7 mm	No.	14	4815.00	67410.00
3	L.T. XLPE Armoured cable 4core 16sq.mm.	Mtr.	250	75.89	18972.50
4	L.T. 2 Core Cable 2.5 sqmm Armoured	Mtr.	100	75.01	7501.00
5	Concreting ration 1:4:8	Cmt	8	2596.08	20768.66
6	Red Bricks	No.	1200	2.42	2904.00
7	Sand	Cum	6.5	210.13	1365.85
8	Sundries	L.S.	-	770.00	770.00
				Total:	**162532.00**

MSEDCL

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	64.78	18786.20
2	G.I.Channel 75x40x6mm	Kg.	15	64.78	971.70
3	G.I Flat 75x10 mm	Kg.	20	61.55	1231.00
4	Dist. Transformer 100 KVA, 11/0.43 kv	No.	1	105000.00	105000.00
5	L.T.Dist.Boxes 100 KVA with MCCB	No	1	15325.00	15325.00
6	11KV H.G.Fuses	Nos.	1	1780.00	1780.00
7	L.As. 11 KV (Gapless type) with disconector	Set	1	1100.00	1100.00
8	11 kV Pin Insulators with G.I. Pins	Nos.	6	135.11	810.63
9	L.T.XLPE Armoured 3.5 Core cable120 sq.mm.	Rmt.	10	286.71	2867.10
10	L.T.XLPE Armoured 3.5 Core cable70 sq.mm.	Rmt.	50	170.70	8535.00
11	Earthing Sets H.T	Nos.	3	335.51	1006.53
12	G.I.Strip (25 X 3 mm)	Kg.	40	64.78	2591.20
13	Coal	Kg.	200	5.54	1108.00
14	Salt	Kg.	200	6.00	1200.00
15	Plinth for station Transformer	Cmt.	5.6	4763.93	26678.03
16	Half round cement pipe (150mm X 1mtr)	Nos.	30	100.00	3000.00
17	G.I.Nut Boltss Washer & Misc Material	L.S	1	2060.90	2060.90
				Total:	**194051.30**

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	319.36	79840.00
2	Armoured Copper control cable 12C X 2.5 Sq mm	Rmt	260	211.92	55099.20
3	Armoured Copper control cable 4C X 2.5 Sq mm	Rmt	125	180.20	22525.00
4	Armoured Copper control cable 2Cx2.5 sq.mm.	Rmt	100	55.73	5573.00
5	L.T. XLPE Armoured cable 4core 16sq.mm.	RMT	200	75.89	15178.00
6	Miscelleneous material	L.S	1	450.00	450.00
				TOTAL	**178665.20**

MSEDCL

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

Sr.No.	Particular	Amount	
1	Land Development (As per table A) GIS	42358.00	
2	Control room (As per table B) GIS	3330411.05	
3	Store room of size 8.0m X 6.0 m (As per table C) GIS	0.00	
4	Sanitory Water supply	0.00	
5	Electrification (Lumsum)	100000.00	
6	WBM Road (As per table D) GIS	96308.50	
7	Chain link fencing and Barbed wire fencing (As per table E) GIS	145452.60	
8	Metal Spreading (As per table F) GIS	21418.00	
9	Equipment Foundations for 1X 5 MVA or 1X10 MVA (1+3 Bay) (As table G) GIS	70460.40	
10	Water Supply arrangement for C/Room and Switch Yard.(As per table H) GIS	36323.00	
11	Borewell including pumpset and allied accessories. (As per table I) GIS	73303.00	
12	Const.of cable trench with covers in S/Yard. (As per table J) GIS	106943.98	
13	Construction of retaining wall. (As per table K) GIS	176281.00	
14	10MVA Transformer Plint, firewall, additional bay foundation & metal spreading (As per table L) GIS	220691.90	
15	Estimate for Pile foundation for 33/kv S/stn (as per table M) GIS	0.00	
	Total=	**4419951.44**	