ANNEXURE-10

LT DB INSTALLATION

Annexure-10 LTDB				
Sl. No.	**Description**	**Quantity (in nos.)**	**Unit Price (in Rs.)**	**Amount (in cr.)**
1	LT Distribution Box with MCCB, for 100kVA trf.	720	1,04,948.47	7.56
2	LT Distribution Box with MCCB, for 250kVA trf.	500	2,17,542.43	10.88
3	LT Distribution Box with MCCB, for 500kVA trf.	350	3,30,194.49	11.56
Total				**30.0**

Standard Estimate for LTDB for 100kVA DTR					
	MATERIALS FOR DP Mounted DSS				
Sl. No.	***Description of Materials***	***Unit***	***Unit Rate***	***Total Quantity***	***Total Amount***
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
1	PSC POLE 9 METER LONG 300 KG	EA	3,900.00	1	3,900.00
2	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 100 KVA S/S	Nos.	42,000.00	1	42,000.00
3	4 Cx 150 mm2 LT XLPE Cable(Armoured) - FOR 100 KVA Trf. to LTDB	Mtr.	824.01	15	12,360.15
4	4 Cx 70 mm2 LT XLPE Cable(Armoured) - FOR LTDB O/G to AB Cable	Mtr.	305.00	10	3,050.00
5	4 Cx 35 mm2 LT XLPE Cable(Armoured) - FOR LTDB O/G to AB Cable	Mtr.	169.00	10	1,690.00
6	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 mtr .Long	No	1,365.00	1	1,365.00
7	50x6mm GI Flat for earthing, 2.36kg/mtr., 2 mtr for LTDB)	KG	97.50	4.72	460.20
A				**Total Cost of materials**	**64,825.35**
B				Stock, Storage & Insurance i.e 3% of A	1,944.76
C				**Sub Total (A+B)**	**66,770.11**
D				Contigency @ 3% of C	2,003.10
E				Tools & Plants @ 2% of C	1,335.40
F				Transportation @ 7.5% of C	5,007.76
G				Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole	-
H				Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/PSC Pole)	6,134.72
I				Erection Charges @ 20% of PSC pole- Not to be used for 33kv	803.40
J				**Sum of (C to I)**	**82,054.49**
Civil and Services Works					
1	Concreting ratio 1:1.5:3 (500mmX500mmX1500mm) = 0.375 Cu.mtr	Cu.mtr	6,500.00	0.375	2,437.50
2	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation ,soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe . BA has to supply of charcoal.etc with brick masanory (1:5), PCC (1:4:8) d with cast iron cover. size of the pit 450mmx450mmx600mm depth as per direction of engineer in charge. Supply of GI Pipe 40mm dia 3Mtr long is in scope of TPCODL.The installation will be done as per TPCODL drawing	No	3,700.00	1	3,700.00
K				**Total Civil & Services**	**6,137.50**
L				**Total (J+K)**	**88,191.99**
M				Other overheads (Including 6% supervision charges) of L	-
N				**Sub Total (L+M)**	**88,191.99**
O				Total GST @ 18% of (N)	15,874.56
P				Total CESS @ 1%of (N)	881.92
Q				**Gross Total Material +Services (N+O+P)**	**1,04,948.47**

Standard Estimate for LTDB for 250kVA DTR					
	MATERIALS FOR DP Mounted DSS				
Sl. No.	***Description of Materials***	***Unit***	***Unit Rate***	***Total Quantity***	***Total Amount***
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
1	PSC POLE 9 METER LONG 300 KG	EA	3,900.00	1	3,900.00
2	LT Distribution Box with MCCB, Aluminium Busbar for 3 Bay with kit kat fuse for 250 KVA S/S	Nos.	77,024.18	1	77,024.18
3	1 Cx 400 mm2 LT XLPE Cable(Un-Armoured) - Trf. to LTDB	Mtr.	359.66	120	43,159.20
4	4 Cx 70 mm2 LT XLPE Cable(Armoured) - FOR LTDB O/G to AB Cable	Mtr.	305.00	30	9,150.00
5	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 mtr .Long	No	1,365.00	1	1,365.00
6	50x6mm GI Flat for earthing, 2.36kg/mtr., 2 mtr for LTDB)	KG	97.50	4.72	460.20
A				**Total Cost of materials**	**1,35,058.58**
B				Stock, Storage & Insurance i.e 3% of A	4,051.76
C				**Sub Total (A+B)**	**1,39,110.34**
D				Contigency @ 3% of C	4,173.31
E				Tools & Plants @ 2% of C	2,782.21
F				Transportation @ 7.5% of C	10,433.28
G				Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole	-
H				Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/PSC Pole)	13,368.74
I				Erection Charges @ 20% of PSC pole- Not to be used for 33kv	803.40
J				**Sum of (C to I)**	**1,70,671.27**
Civil and Services Works					
1	Concreting ratio 1:1.5:3 (500mmX500mmX1500mm) = 0.375 Cu.mtr	Cu.mtr	6,500.00	0.375	2,437.50
2	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation ,soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe . BA has to supply of charcoal.etc with brick masanory (1:5), PCC (1:4:8) d with cast iron cover. size of the pit 450mmx450mmx600mm depth as per direction of engineer in charge. Supply of GI Pipe 40mm dia 3Mtr long is in scope of TPCODL.The installation will be done as per TPCODL drawing	No	3,700.00	1	3,700.00
3	BA will supply all civil Material, excavation , removal of Malba,refilling, including Manpower,machinery etc as per TPCODL Drawing for Plinth for L.T. Distribution box 6ft hight (below GL2ft)x5ftx5ft	NO	6,000.00	1	6,000.00
K				**Total Civil & Services**	**12,137.50**
L				**Total (J+K)**	**1,82,808.77**
M				Other overheads (Including 6% supervision charges) of L	-
N				**Sub Total (L+M)**	**1,82,808.77**
O				Total GST @ 18% of (N)	32,905.58
P				Total CESS @ 1%of (N)	1,828.09
Q				**Gross Total Material +Services (N+O+P)**	**2,17,542.43**

Standard Estimate for LTDB for 500kVA DTR					
	MATERIALS FOR DP Mounted DSS				
Sl. No.	***Description of Materials***	***Unit***	***Unit Rate***	***Total Quantity***	***Total Amount***
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
1	PSC POLE 9 METER LONG 300 KG	EA	3,900.00	1	3,900.00
2	LT Distribution Box with MCCB, Aluminium Busbar for 3 Bay with kit kat fuse for 500 KVA S/S	Nos.	1,26,149.00	1	1,26,149.00
3	1 Cx 400 mm2 LT XLPE Cable(Un-Armoured) - Trf. to LTDB	Mtr.	359.66	180	64,738.80
4	4 Cx 95 mm2 LT XLPE Cable(Armoured) - FOR LTDB O/G to AB Cable	Mtr.	368.64	20	7,372.80
5	4 Cx 70 mm2 LT XLPE Cable(Armoured) - FOR LTDB O/G to AB Cable	Mtr.	305.00	20	6,100.00
6	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 mtr .Long	No	1,365.00	1	1,365.00
7	50x6mm GI Flat for earthing, 2.36kg/mtr., 2 mtr for LTDB)	KG	97.50	4.72	460.20
A	**Total Cost of materials**				**2,10,085.80**
B	Stock, Storage & Insurance i.e 3% of A				6,302.57
C	**Sub Total (A+B)**				**2,16,388.37**
D	Contigency @ 3% of C				6,491.65
E	Tools & Plants @ 2% of C				4,327.77
F	Transportation @ 7.5% of C				16,229.13
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/PSC Pole)				21,096.54
I	Erection Charges @ 20% of PSC pole- Not to be used for 33kv				803.40
J	**Sum of (C to I)**				**2,65,336.86**
Civil and Services Works					
1	Concreting ratio 1:1.5:3 (500mmX500mmX1500mm) = 0.375 Cu.mtr	Cu.mtr	6,500.00	0.375	2,437.50
2	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation ,soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe . BA has to supply of charcoal.etc with brick masanory (1:5), PCC (1:4:8) d with cast iron cover. size of the pit 450mmx450mmx600mm depth as per direction of engineer in charge. Supply of GI Pipe 40mm dia 3Mtr long is in scope of TPCODL.The installation will be done as per TPCODL drawing	No	3,700.00	1	3,700.00
3	BA will supply all civil Material, excavation , removal of Malba,refilling, including Manpower,machinery etc as per TPCODL Drawing for Plinth for L.T. Distribution box 6ft hight (below GL2ft)x5ftx5ft	NO	6,000.00	1	6,000.00
K	**Total Civil & Services**				**12,137.50**
L	**Total (J+K)**				**2,77,474.36**
M	Other overheads (Including 6% supervision charges) of L				-
N	**Sub Total (L+M)**				**2,77,474.36**
O	Total GST @ 18% of (N)				49,945.39
P	Total CESS @ 1%of (N)				2,774.74
Q	**Gross Total Material +Services (N+O+P)**				**3,30,194.49**