

Annexure 4- Bill of Quantity

Installation of Meter for DTR along with accessories.									
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Installation of LTDB for 11/0.4 KV, 25kVA and 63kVA DTR alongwith accessories.

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
2	GI Channel, angle & flat of different size	KG	78.00	25	1,950.00
3	9 Mtr. long PSC Pole	EA	3,630.00	1	3,630.00
4	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	2	480.00
5	EYE hook for XLPE Aerial bunched Cable	EA	75.00	2	150.00
6	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	2	434.00
12	LT Distribution Box for 63 KVA S/S	EA	26,990.00	1	26,990.00
14	4 Cx 95 mm2 LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	M	533.00	15	7,995.00
15	1.1kV, 4Core, 95sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	533.00	34	18,122.00
16	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	20	5,220.00
30	GI Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	2	2,600.00
31	GI Nuts & Bolts of Assorted size	KG	74.00	2	148.00
A1	Total Cost of materials				67,719.00
A2	Applicable Taxes to make it Landed Cost @18%				12,189.42
A	Total landed Cost (A=A1 + A2)				79,908.42
B	Stock, Storage & Insurance i.e 3% of A				2,397.25
C	Sub Total (A+B)				82,305.67
D	Contingency @ 3% of C				2,469.17
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				821.17
F	Transportation @ 7.5% of C				6,172.93
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				3,664.67
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				882.38
J	Sum of (C to I)				96,316.00
Civil and Services Works					
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	2	7,569.46
9	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	20	3,900.00
10	Laying of 4 Cx 95 mm2 LT XLPE Cable	M	47.87	49	2,345.71
11	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.375	2,493.32
12	SITC of Aluminium Lugs suitable for 95 sq mm cable/conductor	EA	92.06	24.000	2,209.44
13	SITC of termination kit of 1.1kV 3.5C/4C 35-120 sqmm	EA	3,840.00	2.000	7,680.00
14	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 50-95sqmm	EA	1,380.00	3.000	4,140.00
15	Earth work excavation of soil -Route Length	M			
15.i	Earth work excavation of soil	M3	716.03	0.700	501.22
15.ii	Earth work excavation of hard rock	M3	1,759.39	0.300	527.82
15.iii	Back filling with excavated soil outside and above the trench	M3	220.00	1.000	220.00
16	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	2.000	566.68
17	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
	Dismantling of existing LT Distribution Box upto 400A including removal of HT/LT leads, ACB/ MCCB/MCB/KIT KAT fuse,HRC fuse /bus barearth connections and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in safe position/site store. Transportation with adequete vehicle load/capacity shall be only paid seperately	EA	2,750.00	1.000	2,750.00
K1	Total Civil & Services				35,903.65
K2	Applicable Taxes to make it Landed Cost @18%				6,462.66
K	Total landed Cost (K=K1+ K2)				42,366.31
L	Total (J+K)				138,682.30
N	Sub-Total (L+M)				138,682.30
O	CESS 1% of N				1,386.82
P	Gross Total Material +Services (N+O)				140,069.13
R	Inspection Fee of LV Cable				375.00
T	Total Inspection Fees (Q+R+S)				375.00
U	GST @ 18% on Total Inspection Fees (T)				67.50
V	Total Inspection Fees including GST (T+U)				442.50
W	Gross Total Material, Services and Inspection Fees (P+V)				140,511.63

Installation of LTDB for 11/0.4 KV, 100kVA DTR alongwith accessories.

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
2	GI Channel, angle & flat of different size	KG	78.00	25	1,950.00
3	9 Mtr. long PSC Pole	EA	3,630.00	1	3,630.00
4	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	2	480.00
5	EYE hook for XLPE Aerial bunched Cable	EA	75.00	2	150.00
6	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	2	434.00
12	LT Distribution Box for 100 KVA S/S	EA	31,086.00	1	31,086.00
14	4 Cx 150 mm2 LT XLPE Cable(Armoured) - FOR 100 KVA Trf.	M	850.00	15	12,750.00
15	1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	850.00	46	39,100.00
16	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	20	5,220.00
30	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	2	2,600.00
31	GI Nuts & Bolts of Assorted size	KG	74.00	2	148.00
A1	Total Cost of materials				97,548.00
A2	Applicable Taxes to make it Landed Cost @18%				17,558.64
A	Total landed Cost (A=A1 + A2)				115,106.64
B	Stock, Storage & Insurance i.e 3% of A				3,453.20
C	Sub Total (A+B)				118,559.84
D	Contingency @ 3% of C				3,556.80
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				920.74
F	Transportation @ 7.5% of C				8,891.99
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				4,162.50
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				882.38
J	Sum of (C to I)				136,974.24
Civil and Services Works					
9	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	20	3,900.00
10	Laying of 4 Cx 150 mm2 LT XLPE Cable	M	60.00	61	3,660.00
11	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.375	2,493.32
12	SITC of Aluminium Lugs suitable for 150 sq mm cable/conductor	EA	156.50	24.000	3,756.00
13	SITC of termination kit of 1.1kV 3.5C/4C 150-240 sqmm	EA	4,920.00	2.000	9,840.00
14	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm	EA	2,230.00	3.000	6,690.00
15	Earth work excavation of soil -Route Length	M			
15.i	Earth work excavation of soil	M3	716.03	0.700	501.22
15.ii	Earth work excavation of hard rock	M3	1,759.39	0.300	527.82
15.iii	Back filling with excavated soil outside and above the trench	M3	220.00	1.000	220.00
16	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	2.000	566.68
17	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
	Dismantling of existing LT Distribution Box upto 400A including removal of HT/LT leads, ACB/ MCCB/MCB/KIT KAT fuse,HRC fuse /bus barearth connections and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in safe position/site store. Transportation with adequate vehicle load/capacity shall be only paid seperately	EA	2,750.00	1.000	2,750.00
K1	Total Civil & Services				35,905.04
K2	Applicable Taxes to make it Landed Cost @18%				6,462.91
K	Total landed Cost (K=K1+ K2)				42,367.94
L	Total (J+K)				179,342.19
N	Sub-Total (L+M)				179,342.19
O	CESS 1% of N				1,793.42
P	Gross Total Material +Services (N+O)				181,135.61
R	Inspection Fee of LV Cable				375.00
T	Total Inspection Fees (Q+R+S)				375.00
U	GST @ 18% on Total Inspection Fees (T)				67.50
V	Total Inspection Fees including GST (T+U)				442.50
W	Gross Total Material, Services and Inspection Fees (P+V)				181,578.11

Installation of LTDB for 11/0.4 KV, 250kVA and 500kVA DTR alongwith accessories.

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
6	9 Mtr. long PSC Pole	EA	3,630.00	2	7,260.00
7	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	3	720.00
8	EYE hook for XLPE Aerial bunched Cable	EA	75.00	3	225.00
9	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	3	651.00
14	GI Channel, angle & flat of different size	KG	78.00	250	19,500.00
16	LT DISTRIBUTION BOX (GI)with for 500 kVA S/S	EA	82,666.00	1	82,666.00
17	1 Cx 630 mm2 LT XLPE Cable(Un-Armoured)	M	642.00	60.00	38,520.00
18	Supply of 1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	850.00	120.00	102,000.00
19	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	40	10,440.00
20	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	3.00	3,900.00
21	GI Nuts & Bolts of Assorted size	KG	74.00	5	370.00
A1	Total Cost of materials				266,252.00
A2	Applicable Taxes to make it Landed Cost @18%				47,925.36
A	Total landed Cost (A=A1 + A2)				314,177.36
B	Stock, Storage & Insurance i.e 3% of A				9,425.32
C	Sub Total (A+B)				323,602.68
D	Contingency @ 3% of C				9,708.08
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				2,707.72
F	Transportation @ 7.5% of C				24,270.20
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				12,656.20
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				1,764.76
J	Sum of (C to I)				374,709.64
Civil and Services Works					
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	3	11,354.19
8	LTDB Plinth	EA	11,354.57	1	11,354.57
10	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	40	7,800.00
11	Laying of 4 Cx 150 mm2 LT XLPE Cable	M	60.00	120	7,200.00
12	Laying of 1.1kV cable from 400 to 1000sqmm	M	70.00	60	4,200.00
13	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.750	4,986.64
14	SITC of Aluminium Lugs suitable for 630 sq mm cable/conductor	EA	460.31	8.000	3,682.48
15	SITC of Aluminium Lugs suitable for 150 sq mm cable/conductor	EA	156.50	32.000	5,008.00
16	SITC of double Compression Flameproof Type Glanding for armored Cable 1C 300-1000 sqmm	EA	1,227.48	8.000	9,819.84
17	SITC of termination kit of 1.1kV 3.5C/4C 150-240 sqmm	EA	4,920.00	4.000	19,680.00
18	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm	EA	2,230.00	4.000	8,920.00
19	Earth work excavation of soil -Route Length	M			
19.i	Earth work excavation of soil	M3	716.03	1.400	1,002.44
19.ii	Earth work excavation of hard rock	M3	1,759.39	0.600	1,055.63
19.iii	Back filling with excavated soil outside and above the trench	M3	220.00	2.000	440.00
21	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
	Dismantling of existing LT Distribution Box upto 400A including removal of HT/LT leads, ACB/ MCCB/MCB/KIT KAT fuse,HRC fuse /bus barearth connections and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in safe position/site store. Transportation with adequete vehicle load/capacity shall be only paid seperately	EA	2,750.00	1.000	2,750.00
K1	Total Civil & Services				100,253.79
K2	Applicable Taxes to make it Landed Cost @18%				18,045.68
K	Total landed Cost (K=K1+ K2)				118,299.48
L	Total (J+K)				493,009.12
N	Sub-Total (L+M)				493,009.12
O	CESS 1% of N				4,930.09
P	Gross Total Material +Services (N+O)				497,939.21
R	Inspection Fee of LV Cable				375.00
T	Total Inspection Fees (Q+R+S)				375.00
U	GST @ 18% on Total Inspection Fees (T)				67.50
V	Total Inspection Fees including GST (T+U)				442.50
W	Gross Total Material, Services and Inspection Fees (P+V)				498,381.71

Installation of LTDB for 11/0.4 KV, 1000kVA DTR alongwith accessories.

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
6	9 Mtr. long PSC Pole	EA	3,630.00	2	7,260.00
7	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	3	720.00
8	EYE hook for XLPE Aerial bunched Cable	EA	75.00	3	225.00
9	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	3	651.00
14	GI Channel, angle & flat of different size	KG	78.00	100	7,800.00
16	LT DISTRIBUTION BOX (GI)with for 1000 kVA S/S	EA	375,000.00	1	375,000.00
17	1 Cx 630 mm2 LT XLPE Cable(Un-Armoured)	M	642.00	120.00	77,040.00
18	Supply of 1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	850.00	117.00	99,450.00
19	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	40	10,440.00
20	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	2.00	2,600.00
21	GI Nuts & Bolts of Assorted size	KG	74.00	5	370.00
A1	Total Cost of materials				581,556.00
A2	Applicable Taxes to make it Landed Cost @18%				104,680.08
A	Total landed Cost (A=A1 + A2)				686,236.08
B	Stock, Storage & Insurance i.e 3% of A				20,587.08
C	Sub Total (A+B)				706,823.16
D	Contingency @ 3% of C				21,204.69
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				9,529.37
F	Transportation @ 7.5% of C				53,011.74
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				46,764.46
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				1,764.76
J	Sum of (C to I)				839,098.18
Civil and Services Works					
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	2	7,569.46
8	LTDB Plinth	EA	11,354.57	1	11,354.57
10	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	40	7,800.00
11	Laying of 4 Cx 150 mm2 LT XLPE Cable	M	60.00	117	7,020.00
12	Laying of 1.1kV cable from 400 to 1000sqmm	M	70.00	120	8,400.00
13	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.750	4,986.64
14	SITC of Aluminium Lugs suitable for 630 sq mm cable/conductor	EA	460.31	8.000	3,682.48
15	SITC of Aluminium Lugs suitable for 150 sq mm cable/conductor	EA	156.50	32.000	5,008.00
16	SITC of double Compression Flameproof Type Glanding for armored Cable 1C 300-1000 sqmm	EA	1,227.48	8.000	9,819.84
17	SITC of termination kit of 1.1kV 3.5C/4C 150-240 sqmm	EA	4,920.00	4.000	19,680.00
18	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm	EA	2,230.00	4.000	8,920.00
19	Earth work excavation of soil -Route Length	M			
19.i	Earth work excavation of soil	M3	716.03	1.400	1,002.44
19.ii	Earth work excavation of hard rock	M3	1,759.39	0.600	1,055.63
19.iii	Back filling with excavated soil outside and above the trench	M3	220.00	2.000	440.00
21	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
	Dismantling of existing LT Distribution Box upto 400A including removal of HT/LT leads, ACB/ MCCB/MCB/KIT KAT fuse ,HRC fuse /bus barearth connections and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in safe position/site store. Transportation with adequete vehicle load/capacity shall be only paid seperately	EA	2,750.00	1.000	2,750.00
K1	Total Civil & Services				100,489.06
K2	Applicable Taxes to make it Landed Cost @18%				18,088.03
K	Total landed Cost (K=K1+ K2)				118,577.09
L	Total (J+K)				957,675.28
N	Sub-Total (L+M)				957,675.28
O	CESS 1% of N				9,576.75
P	Gross Total Material +Services (N+O)				967,252.03
R	Inspection Fee of LV Cable				375.00
T	Total Inspection Fees (Q+R+S)				375.00
U	GST @ 18% on Total Inspection Fees (T)				67.50
V	Total Inspection Fees including GST (T+U)				442.50
W	Gross Total Material, Services and Inspection Fees (P+V)				967,694.53

Replacement of 11 kV DO Fuse - for DTR

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
18	DO.Fuse(11KV.200A.3Pole)	SET	3,214.00	1	3,214.00
19	10 AMP Fuse Link	EA	40.00	3	120.00
A1	Total Cost of materials				3,334.00
A2	Applicable Taxes to make it Landed Cost @18%				600.12
A	Total landed Cost (A=A1 + A2)				3,934.12
B	Stock, Storage & Insurance i.e 3% of A				118.02
C	Sub Total (A+B)				4,052.14
D	Contingency @ 3% of C				121.56
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				81.04
F	Transportation @ 7.5% of C				303.91
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				405.21
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				4,963.88
Civil and Services Works					
17	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
	Dismantling of 11 kV /33KV GO/AB Switch/Isolator/DD fuse/fuse set	EA	1,200.00	1.000	1,200.00
K1	Total Civil & Services				2,200.00
K2	Applicable Taxes to make it Landed Cost @18%				396.00
K	Total landed Cost (K=K1+ K2)				2,596.00
L	Total (J+K)				7,559.88
N	Sub-Total (L+M)				7,559.88
O	CESS 1% of N				75.60
P	Gross Total Material +Services (N+O)				7,635.47
W	Gross Total Material, Services and Inspection Fees (P+V)				7,635.47

Replacement of 11 kV AB Switch - for DTR

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
2	GI Channel, angle & flat of different size	KG	78.00	12	936.00
17	AB Switch(11KV,200A,3pole,50Hz)	SET	9,080.00	1	9,080.00
20	WEDGE CONNECTOR FOR 55 SQMM.CONDUCTOR	EA	100.00	3	300.00
30	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	1	1,300.00
A1	Total Cost of materials				11,616.00
A2	Applicable Taxes to make it Landed Cost @18%				2,090.88
A	Total landed Cost (A=A1 + A2)				13,706.88
B	Stock, Storage & Insurance i.e 3% of A				411.21
C	Sub Total (A+B)				14,118.09
D	Contingency @ 3% of C				423.54
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				250.76
F	Transportation @ 7.5% of C				1,058.86
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				1,253.81
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				17,105.05
Civil and Services Works					
16	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	2.000	566.68
17	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
	Dismantling of 11 kV /33KV GO/AB Switch/Isolator/DD fuse/fuse set	EA	1,200.00	1.000	1,200.00
K1	Total Civil & Services				2,766.68
K2	Applicable Taxes to make it Landed Cost @18%				498.00
K	Total landed Cost (K=K1+ K2)				3,264.68
L	Total (J+K)				20,369.74
N	Sub-Total (L+M)				20,369.74
O	CESS 1% of N				203.70
P	Gross Total Material +Services (N+O)				20,573.43
W	Gross Total Material, Services and Inspection Fees (P+V)				20,573.43

Installation of 1WAY RMU for 11/0.4 KV, 250kVA and 500kVA DTR (AI) alongwith accessories.

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
1	Supply of 11kV RMU 1WAY 630A SINGLE BREAKER MOUDLE+AUXPT	EA	414,079.00	1	414,079.00
2	Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)	M	1,014.00	15	15,210.00
3	Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, HT UG Cable kits	EA	1,830.00	2	3,660.00
4	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, HT UG Cable kits	EA	2,060.00	2	4,120.00
5	Lightning Arrester(12KV,10KA) Station Class 2	EA	1,960.00	3	5,880.00
14	GI Channel, angle & flat of different size	KG	78.00	75	5,850.00
20	GI Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	3.00	3,900.00
21	GI Nuts & Bolts of Assorted size	KG	74.00	5	370.00
A1	Total Cost of materials				453,069.00
A2	Applicable Taxes to make it Landed Cost @18%				81,552.42
A	Total landed Cost (A=A1 + A2)				534,621.42
B	Stock, Storage & Insurance i.e 3% of A				16,038.64
C	Sub Total (A+B)				550,660.06
D	Contingency @ 3% of C				16,519.80
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				294.13
F	Transportation @ 7.5% of C				41,299.50
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				1,470.63
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				610,244.13
Civil and Services Works					
1	Erection of 11kV RMU 1WAY 630A SINGLE BREAKER MOUDLE+AUXPT	EA	14,475.00	1	14,475.00
2	RMU Plinth	EA	26,000.00	1	26,000.00
3	Laying, Commissioning & Testing of 11kV, 3Core, 95sqmm, XLPE insulation (extruded type) UG cable by open trench method.	M	110.00	15	1,650.00
4	Erection of Outdoor termination kits/Indoor termination Kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits	EA	2,000.00	4	8,000.00
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	3	11,354.19
21	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
24.1	GI chain link fencing for DSS	RM	4,167.57	18.000	75,016.30
K1	Total Civil & Services				137,495.49
K2	Applicable Taxes to make it Landed Cost @18%				24,749.19
K	Total landed Cost (K=K1+ K2)				162,244.68
L	Total (J+K)				772,488.81
N	Sub-Total (L+M)				772,488.81
O	CESS 1% of N				7,724.89
P	Gross Total Material +Services (N+O)				780,213.70
Q	Inspection Fee of Transformer (100kVA to 1000KVA)				10,500.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				11,250.00
U	GST @ 18% on Total Inspection Fees (T)				2,025.00
V	Total Inspection Fees including GST (T+U)				13,275.00
W	Gross Total Material, Services and Inspection Fees (P+V)				793,488.70

Installation of LA along with accessories - for DTR

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
2	GI Channel, angle & flat of different size	KG	78.00	168	13,104.00
24	Lightning Arrester(12KV,10KA) Station Class 2	EA	1,960.00	3	5,880.00
25	DMC Insulator for LA (70/10)	EA	113.50	8	908.00
30	GI Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	2	2,600.00
31	GI Nuts & Bolts of Assorted size	KG	74.00	1	74.00
A1	Total Cost of materials				22,566.00
A2	Applicable Taxes to make it Landed Cost @18%				4,061.88
A	Total landed Cost (A=A1 + A2)				26,627.88
B	Stock, Storage & Insurance i.e 3% of A				798.84
C	Sub Total (A+B)				27,426.72
D	Contingency @ 3% of C				822.80
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				485.33
F	Transportation @ 7.5% of C				2,057.00
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				2,426.67
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				33,218.52
Civil and Services Works					
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	2	7,569.46
16	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	2.000	566.68
17	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
	Dismantling of Lightening Arrester(LA	EA	162.12	1.000	162.12
K1	Total Civil & Services				9,298.26
K2	Applicable Taxes to make it Landed Cost @18%				1,673.69
K	Total landed Cost (K=K1+ K2)				10,971.95
L	Total (J+K)				44,190.47
N	Sub-Total (L+M)				44,190.47
O	CESS 1% of N				441.90
P	Gross Total Material +Services (N+O)				44,632.37
W	Gross Total Material, Services and Inspection Fees (P+V)				44,632.37

BoQ for 33kV 2R 3C, 400sqmm UG Cable- for U/G Crossings- 4.64Ckm (44no Locations)					
Supply Portion					
Sl. No.	Description of items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
1	Supply of materials for 33kV, 3Core, 400sqmm Aluminium, XLPE insulation UG Cable with accessories				
a	Length of 33kV 3C, 400sqmm cable (open trench)	M	420		
b	Length of 33kV 3C, 400sqmm cable (HDD)	M	4220		
1.1	Supply of 33kV, 3Core, 400sqmm Aluminium, XLPE insulation UG Cable with spare (SC rating of cable in kA- 37.7kA and SC rating of Armour in kA-20kA)	M	9280	3,165.00	29,371,200.00
1.2	Supply of Straight through jointing kits Heat Shrinkable type suitable for 33kV, 3Core, 400sqmm, aluminium UG Cable kits	EA	8	25,930.00	207,440.00
1.3	Supply of Outdoor termination kits Heat Shrinkable type suitable for 33kV, 3Core, 400sqmm, HT UG Cable kits	EA	88	11,900.00	1,047,200.00
1.6	Supply of materials for High Density Polyethelene (HDPE) pipe 200mm diameter, PE 80-PN8 for laying of 33kV UG cable	M	840.00	812.00	682,080.00
Sub Total (Supply Portion) (in Rs.)					31,307,920.00
Erection Portion					
Sl. No.	Description of items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
1	Erection, Commissioning & Testing of 33kV new line by 3Core, 400sqmm, XLPE UG cable				
1.1	Laying, Commissioning & Testing of 33kV, 3Core, 400sqmm, XLPE insulation (extruded type) UG cable by open trench method.	M	9280	115.00	1,067,200.00
1.2	Erection of Straight through jointing Kits/Outdoor termination kits/Indoor termination Kits Heat Shrinkable type suitable for 33kV, 3Core, 400sqmm, aluminium UG cable kits	EA	96	2,000.00	192,000.00
1.3	Laying of HDPE pipe (200mm dia, PN8 PE80) by HDD method including supply of HDPE Pipe.	M	8440	2,970.00	25,066,800.00
1.4	Laying of 200mm dia PE 80-PN8, HDPE pipe inside open trench.	M	840.00	195.00	163,800.00
Sub Total (Erection Portion) (in Rs.)					26,489,800.00
Civil Portion					
Sl. No.	Description of items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
1	Civil works for U/G Cable laying in Open Trench				
1.1	Earth work excavation of soil (1mtr. width X 1.2mtr. depth)-Route Length	M	420		
1.1.a	Earth work excavation of soil	M3	352.8	716.03	252,615.38
1.1.b	Earth work excavation of hard rock	M3	151.2	1,759.39	266,019.77
1.2	Back filling with excavated soil outside and above the trench	M3	504	220.00	110,880.00
1.3	Road Repair and restoration charges	KM	0.42	9,294,727.82	3,903,785.68
6	Supply and Erection of Cable Route Marker along the cable route at an interval of 30mtrs with civil works	EA	88	1,035.17	91,094.96
8	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line	CKM	4.64	10,470.00	48,580.80
Sub Total (Civil Portion) (in Rs.)					4,672,976.60
A1	Sub Total (Supply Portion)				31,307,920.00
A2	Applicable Taxes to make it Landed Cost @18%				5,635,425.60
A	Total Landed Cost (A=A1 + A2)				36,943,345.60
B	Stock, Storage & Insurance @ 3 % of A				1,108,300.37
C	Sub Total (A+B)				38,051,645.97
D	Contingency @ 3 % of C				1,141,549.38
E	Tools & Plants Charges @ 2% of C (considered for earthing items)				-
F	Transportation @ 7.5% of C				2,853,873.45
G	Erection Charges @ 10% of earthing items (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Total (C+D+E+F+G)				42,047,068.79
I1	Sub Total (Erection Portion + Civil Portion)				31,162,776.60
I2	Applicable Taxes to make it Landed Cost @18%				5,609,299.79
I	Total landed Cost (I=I1+ I2)				36,772,076.38
J	Total Cost (H+I)				78,819,145.18
L	Total Estimated Capital Cost i.e. (J+K)				78,819,145.18
M	CESS 1% of L				788,191.45
N	Grand Total (L+M)				79,607,336.63
O	Inspection Fee of UG Line (HT) - Rs. 3000/ km.				3,000.00
P	Inspection Fee of UG Line (HT) - Rs. 1500/ Additional Km				5,460.00
R	Inspection Fee of Drawing Checking and Approval				750.00
S	Total Inspection Fees (O+P+Q+R)				9,210.00
T	GST @ 18% on Total Inspection Fees (S)				1,657.80
U	Total Inspection Fees including GST (S+T)				10,867.80
V	Gross Total Material, Services and Inspection Fees (N+U)				79,618,204.43

BOQ for 33 KV DP with Isolator and LA using WPB Pole - for UG Cable crossing

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	13 Mtr. Long H-Pole(GI) for SP	EA	60,830.00	4	243,320.00
2	GI Channel,angle & flat of different size	KG	78.00	1270	99,060.00
3	DMC Insulator for LA (70/10)	EA	113.50	16	1,816.00
4	Danger Plate	EA	180.00	4	720.00
5	H.T. Stay clamp	EA	260.00	8	2,080.00
6	H.T. Stay set (Complete)	SET	1,434.00	8	11,472.00
7	H.T. Stay Insulator Type-C	EA	87.00	16	1,392.00
8	7/8 SWG Stay Wire	KG	75.00	120	9,000.00
9	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	4	5,200.00
10	GI barbed wire anticlimbing device	KG	74.00	12	888.00
11	Lightning Arrester(30KV,10KA) (Station Class,class-2)	EA	4,443.00	6	26,658.00
12	33 KV 1250 AMP Double break isolator without earth switch	EA	62,356.00	2	124,712.00
13	33KV pin insulator polymer	EA	398.00	6	2,388.00
14	H W fitting(B&S) 90KN,4 Bolt	EA	631.00	6	3,786.00
15	Disc insulator (B&S) 90 KN polymer	EA	289.00	6	1,734.00
16	Wedge connector for 232 sq.mm AAA conductor	EA	333.00	6	1,998.00
17	GI Nut , Bolt & Washer of different sizes	KG	74.00	59.52	4,404.48
18	232 sq.mm AAA conductor	M	181.65	24	4,359.60
19	HDPE Pipe 200 mm Dia, PE 80 PN-8 for U/G acble raising	M	812.00	24	19,488.00
20	POLYCARBONATE BIRD GUARD	EA	21.00	12	252.00
A1	Total Cost of materials				564,728.08
A2	Applicable Taxes to make it Landed Cost @18%				101,651.05
A	Total landed Cost (A=A1 + A2)				666,379.13
B	Stock, Storage & Insurance i.e 3% of A				19,991.37
C	Sub Total (A+B)				686,370.51
D	Contingency @ 3% of C				20,591.12
E	Tools & Plants @ 2% of C (Except HT Stay Set / GI Pipe earthing)				12,545.26
F	Transportation @ 7.5% of C				51,477.79
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				14,786.56
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				33,153.20
I	Poles @ 20% of PSC pole- Not to be used for 33kv (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				818,924.44
Civil & Services					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	8	18,412.20
2	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	2.2	14,627.47
3	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.45	2,991.98
4	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	4	15,138.92
5	Laying of HDPE Pipe 200 mm Dia, PE 80 PN-8 for U/G acble raising	EA	195.00	24	4,680.00
6	GIS Mapping, indexing/numbering of Poles	EA	836.00	2	1,672.00
7	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	4	1,133.36
K1	Total Civil & Services				58,655.93

K2	Applicable Taxes to make it Landed Cost @18%	10,558.07
K	Total landed Cost (K=K1+ K2)	69,214.00
L	Total (J+K)	888,138.44
N	Sub-Total Material +Services (L+M)	888,138.44
O	CESS 1% of N	8,881.38
P	Gross Total Material +Services (N+O) for 33 KV DP With Isolator	897,019.82

BoQ for 11kV 2R 3C, 400sqmm UG Cable- for U/G Crossings- 33.84Ckm (164no Locations)					
Supply Portion					
Sl. No.	Description of items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
1	Supply of materials for 11kV, 3Core, 400sqmm Aluminium, XLPE insulation UG Cable with accessories				
a	Length of 11kV 3C, 400sqmm cable (open trench)	M	980		28,089.65
b	Length of 11kV 3C, 400sqmm cable (HDD)	M	32860		
1.1	Supply of 11kV, 3Core, 400sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 37.7kA and SC rating of Armour in kA- 15kA)	M	67680	2,375.00	160,740,000.00
1.2	Supply of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 400sqmm, aluminium UG Cable kits	EA	20	15,950.00	319,000.00
1.4	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 400sqmm, HT UG Cable kits	EA	328	2,900.00	951,200.00
	Sub Total (Supply Portion) (in Rs.)				162,010,200.00
Erection Portion					
Sl. No.	Description of items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
1	Erection, Commissioning & Testing of 11kV new line by 3Core, 400sqmm, XLPE UG cable				
1.1	Laying, Commissioning & Testing of 11kV, 3Core, 400sqmm, XLPE insulation (extruded type) UG cable by open trench method.	M	67680	110.00	7,444,800.00
1.2	Erection of Straight through jointing Kits/Outdoor termination kits/Indoor termination Kits Heat Shrinkable type suitable for 11kV, 3Core, 400sqmm, aluminium UG cable kits	EA	348	2,000.00	696,000.00
1.3	Laying of HDPE pipe (200mm dia, PN8 PE80) by HDD method including supply of HDPE Pipe.	M	65720	2,970.00	195,188,400.00
	Sub Total (Erection Portion) (in Rs.)				203,329,200.00
Civil Portion					
Sl. No.	Description of items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
1	Civil works for U/G Cable laying in Open Trench				
1.1	Earth work excavation of soil (1mtr. width X 1.2mtr. depth)-Route Length	M	490		
1.1.a	Earth work excavation of soil	M3	411.6	716.03	294,717.95
1.1.b	Earth work excavation of hard rock	M3	176.4	1,759.39	310,356.40
1.2	Back filling with excavated soil outside and above the trench	M3	588	220.00	129,360.00
1.3	Road Repair and restoration charges	KM	0.196	9,294,727.82	1,821,766.65
6	Supply and Erection of Cable Route Marker along the cable route at an interval of 30mtrs with civil works	EA	328	1,035.17	339,535.76
8	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line	CKM	33.84	10,470.00	354,304.80
	Sub Total (Civil Portion) (in Rs.)				3,250,041.56
A1	Sub Total (Supply Portion)				162,010,200.00
A2	Applicable Taxes to make it Landed Cost @18%				29,161,836.00
A	Total Landed Cost (A=A1 + A2)				191,172,036.00
B	Stock, Storage & Insurance @ 3 % of A				5,735,161.08
C	Sub Total (A+B)				196,907,197.08
D	Contingency @ 3 % of C				5,907,215.91
E	Tools & Plants Charges @ 2% of C (considered for earthing items)				-
F	Transportation @ 7.5% of C				14,768,039.78
G	Erection Charges @ 10% of earthing items (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Total (C+D+E+F+G)				217,582,452.77
I1	Sub Total (Erection Portion + Civil Portion)				206,579,241.56
I2	Applicable Taxes to make it Landed Cost @18%				37,184,263.48
I	Total landed Cost (I=I1+ I2)				243,763,505.04
J	Total Cost (H+I)				461,345,957.81
L	Total Estimated Capital Cost i.e. (J+K)				461,345,957.81
M	CESS 1% of L				4,613,459.58
N	Grand Total (L+M)				465,959,417.39
O	Inspection Fee of UG Line (HT) - Rs. 375 upto 1 KM.				375.00
P	Inspection Fee of UG Line (HT) - Rs. 225/ Additional Km				7,389.00
R	Inspection Fee of Drawing Checking and Approval				750.00
S	Total Inspection Fees (O+P+Q+R)				8,514.00
T	GST @ 18% on Total Inspection Fees (S)				1,532.52
U	Total Inspection Fees including GST (S+T)				10,046.52
V	Gross Total Material, Services and Inspection Fees (N+U)				465,969,463.91

BOQ for 11 KV DP with Isolator and LA using WPB Pole - for UG Cable crossing

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	11 Mtr. Long H-Pole(GI) for SP	EA	51,350.00	4	205,400.00
2	GI Channel, angle & flat of different size	KG	78.00	330	25,740.00
3	DMC Insulator for LA (70/10)	EA	113.50	16	1,816.00
4	Danger Plate	EA	180.00	4	720.00
5	H.T. Stay clamp	EA	260.00	8	2,080.00
6	H.T. Stay set (Complete)	SET	1,434.00	8	11,472.00
7	H.T. Stay Insulator Type-C	EA	87.00	8	696.00
8	7/10 SWG Stay Wire	KG	77.00	120	9,240.00
9	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	4	5,200.00
10	GI barbed wire anticlimbing device	KG	74.00	12	888.00
11	Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	1,960.00	6	11,760.00
12	AB Switch (11KV,400A.3pole)	SET	10,972.00	2	21,944.00
14	H W fitting(B&S) 70KN, 3Bolt	EA	412.00	6	2,472.00
15	Disc insulator (B&S) 70 KN polymer	EA	150.00	6	900.00
16	WEDGE CONNECTOR FOR 100 SQMM.CONDUCTOR	EA	138.00	12	1,656.00
17	POLYCARBONATE BIRD GUARD	EA	21.00	6	126.00
18	100 sq.mm AAA conductor	M	78.41	24	1,881.84
19	HDPE Pipe 200 mm Dia, PE 80 PN-8 for U/G acble raising	M	812.00	18	14,616.00
20	GI Nut , Bolt & Washer of different sizes	KG	74.00	24.936	1,845.26
A1	Total Cost of materials				320,453.10
A2	Applicable Taxes to make it Landed Cost @18%				57,681.56
A	Total landed Cost (A=A1 + A2)				378,134.66
B	Stock, Storage & Insurance i.e 3% of A				11,344.04
C	Sub Total (A+B)				389,478.70
D	Contingency @ 3% of C				11,684.36
E	Tools & Plants @ 2% of C (Except HT Stay Set / GI Pipe earthing)				6,736.94
F	Transportation @ 7.5% of C				29,210.90
G	rection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				12,482.16
H	ole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				8,720.39
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				458,313.45
Civil & Services					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	8	18,412.20
2	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	1.80	11,967.93
3	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.45	2,991.98
4	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	4.00	15,138.92
5	Laying of HDPE Pipe 200 mm Dia, PE 80 PN-8 for U/G acble raising	EA	2,100.00	18.00	37,800.00
6	GIS Mapping, indexing/numbering of Poles	EA	836.00	2.00	1,672.00
7	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	4.00	1,133.36
K1	Total Civil & Services				89,116.39
K2	Applicable Taxes to make it Landed Cost @18%				16,040.95
K	Total landed Cost (K=K1+ K2)				105,157.34
L	Total (J+K)				563,470.79
N	Sub-Total (L+M)				563,470.79
O	CESS 1% of N				5,634.71
P	Gross Total Material +Services (N+O) for DP With AB Switch				569,105.50

BOQ for Line Protecting Guarding on Double Pole for Road Crossing- for 33kV network

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	GI Channel, angle & flat of different size	KG	78.00	265	20,670.00
2	No-10 GI wire for lacing	KG	78.00	6.55	510.90
3	No-8 GI wire for guard wire	KG	78.00	30.72	2,396.16
4	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	2	2,600.00
A1	Total Cost of materials				26,177.06
A2	Applicable Taxes to make it Landed Cost @18%				4,711.87
A	Total landed Cost (A=A1 + A2)				30,888.93
B	Stock, Storage & Insurance i.e 3% of A				926.67
C	Sub Total (A+B)				31,815.60
D	Contingency @ 3% of C				954.47
E	Tools & Plants @ 2% of C (Except GI Pipe earthing)				573.11
F	Transportation @ 7.5% of C				2,386.17
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				2,865.56
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				38,594.90
Civil & Services					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Construction of Earthing chamber including earthing pipe and civil works	EA	3,784.73	2	7,569.46
K1	Total Civil & Services				7,569.46
K2	Applicable Taxes to make it Landed Cost @18%				1,362.50
K	Total landed Cost (K=K1+ K2)				8,931.96
L	Total (J+K)				47,526.87
N	Sub Total (L+M)				47,526.87
O	Total CESS @ 1% of (N)				475.27
P	Gross Total Material +Services (N+O) for 33 KV DP With Road crossing Guarding				48,002.14

BOQ for 33 KV DP using WPB Pole - for Guarding

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 - 13 Mtr. long for DP	EA	33,970.00	4	135,880.00
2	GI Channel,angle & flat of different size	KG	78.00	1270	99,060.00
4	Danger Plate	EA	180.00	4	720.00
5	H.T. Stay clamp	EA	260.00	8	2,080.00
6	H.T. Stay set (Complete)	SET	1,434.00	8	11,472.00
7	H.T. Stay Insulator Type-C	EA	87.00	16	1,392.00
8	7/8 SWG Stay Wire	KG	75.00	120	9,000.00
9	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	4	5,200.00
10	GI barbed wire anticlimbing device	KG	74.00	12	888.00
13	33KV pin insulator polymer	EA	398.00	6	2,388.00
14	H W fitting(B&S) 90KN,4 Bolt	EA	631.00	6	3,786.00
15	Disc insulator (B&S) 90 KN polymer	EA	289.00	6	1,734.00
16	Wedge connector for 232 sq.mm AAA conductor	EA	333.00	6	1,998.00
17	GI Nut , Bolt & Washer of different sizes	KG	74.00	59.52	4,404.48
18	232 sq.mm AAA conductor	M	181.65	20	3,633.00
20	POLYCARBONATE BIRD GUARD	EA	21.00	12	252.00

A1	Total Cost of materials	283,887.48
A2	Applicable Taxes to make it Landed Cost @18%	51,099.75
A	Total landed Cost (A=A1 + A2)	334,987.23
B	Stock, Storage & Insurance i.e 3% of A	10,049.62
C	Sub Total (A+B)	345,036.84
D	Contingency @ 3% of C	10,351.11
E	Tools & Plants @ 2% of C (Except HT Stay Set / GI Pipe earthing)	6,192.30
F	Transportation @ 7.5% of C	25,877.76
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)	8,257.43
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)	14,446.67
I	Erection Charges @ 20% of PSC pole- Not to be used for 33kv (With Applicable Taxes @ 18% to make it Landed Cost)	-
J	Sum of (C to I)	410,162.11

Civil & Services

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	8	18,412.20
2	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	2.2	14,627.47
3	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.45	2,991.98
4	Construction of Earthing chamber including earthing pipe and civil works	EA	3,784.73	4	15,138.92
6	GIS Mapping, indexing/numbering of Poles	EA	836.00	2	1,672.00
7	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	4	1,133.36

K1	Total Civil & Services	53,975.93
K2	Applicable Taxes to make it Landed Cost @18%	9,715.67
K	Total landed Cost (K=K1+ K2)	63,691.60
L	Total (J+K)	473,853.71

N	Sub-Total Material +Services (L+M)	473,853.71
O	CESS 1% of N	4,738.54
P	Gross Total Material +Services (N+O) for 33 KV DP With Isolator	478,592.25

BOQ for Line Protecting Guarding on Double Pole for Road Crossing- for 11kV network

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	GI Channel, angle & flat of different size	KG	78.00	235	18,330.00
2	No-10 GI wire for lacing	KG	78.00	6.55	510.90
3	No-8 GI wire for guard wire	KG	78.00	30.72	2,396.16
4	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	2	2,600.00
A1	Total Cost of materials				23,837.06
A2	Applicable Taxes to make it Landed Cost @18%				4,290.67
A	Total landed Cost (A=A1 + A2)				28,127.73
B	Stock, Storage & Insurance i.e 3% of A				843.83
C	Sub Total (A+B)				28,971.56
D	Contingency @ 3% of C				869.15
E	Tools & Plants @ 2% of C (Except GI Pipe earthing)				516.23
F	Transportation @ 7.5% of C				2,172.87
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				2,581.15
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				35,110.96
Civil & Services					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	2	7,569.46
K1	Total Civil & Services				7,569.46
K2	Applicable Taxes to make it Landed Cost @18%				1,362.50
K	Total landed Cost (K=K1+ K2)				8,931.96
L	Total (J+K)				44,042.92
N	Sub Total (L+M)				44,042.92
O	Total CESS @ 1% of (N)				440.43
P	Gross Total Material +Services (N+O) for 11 KV DP With Road crossing Guarding				44,483.35

BOQ for 11 KV DP using WPB Pole - for Guarding

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 11 Mtr. Long for DP	EA	28,835.00	4	115,340.00
2	GI Channel, angle & flat of different size	KG	78.00	1112	86,736.00
4	Danger Plate	EA	180.00	4	720.00
5	H.T. Stay clamp	EA	260.00	8	2,080.00
6	H.T. Stay set (Complete)	SET	1,434.00	8	11,472.00
7	H.T. Stay Insulator Type-C	EA	87.00	8	696.00
8	7/10 SWG Stay Wire	KG	77.00	120	9,240.00
9	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	4	5,200.00
10	GI barbed wire anticlimbing device	KG	74.00	12	888.00
14	H W fitting(B&S) 70KN, 3Bolt	EA	412.00	6	2,472.00
15	Disc insulator (B&S) 70 KN polymer	EA	150.00	6	900.00
16	WEDGE CONNECTOR FOR 100 SQMM.CONDUCTOR	EA	138.00	12	1,656.00
17	POLYCARBONATE BIRD GUARD	EA	21.00	6	126.00
18	100 sq.mm AAA conductor	M	78.41	20	1,568.20
19	HDPE Pipe 200 mm Dia, PE 80 PN-8 for U/G acble raising	M	812.00	0	-
20	GI Nut , Bolt & Washer of different sizes	KG	74.00	24.936	1,845.26
A1	Total Cost of materials				240,939.46
A2	Applicable Taxes to make it Landed Cost @18%				43,369.10
A	Total landed Cost (A=A1 + A2)				284,308.57
B	Stock, Storage & Insurance i.e 3% of A				8,529.26
C	Sub Total (A+B)				292,837.82
D	Contingency @ 3% of C				8,785.13
E	Tools & Plants @ 2% of C (Except HT Stay Set / GI Pipe earthing)				5,159.41
F	Transportation @ 7.5% of C				21,962.84
G	rection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				7,009.21
H	ole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				11,778.62
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				347,533.04
Civil & Services					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	8	18,412.20
2	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	1.80	11,967.93
3	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.45	2,991.98
4	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	4.00	15,138.92
6	GIS Mapping, indexing/numbering of Poles	EA	836.00	2.00	1,672.00
7	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	4.00	1,133.36
K1	Total Civil & Services				51,316.39
K2	Applicable Taxes to make it Landed Cost @18%				9,236.95
K	Total landed Cost (K=K1+ K2)				60,553.34
L	Total (J+K)				408,086.38
N	Sub-Total (L+M)				408,086.38
O	CESS 1% of N				4,080.86
P	Gross Total Material +Services (N+O) for DP With AB Switch				412,167.24

Installation of New 11/0.4 KV, 63 KVA DTR (AI) alongwith accessories.					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
1	WPB (GI) Pole 160x152 11 Mtr. Long for DP	EA	28,835.00	2	57,670.00
2	GI Channel, angle & flat of different size	KG	78.00	470	36,660.00
3	9 Mtr. long PSC Pole	EA	3,630.00	1	3,630.00
4	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	2	480.00
5	EYE hook for XLPE Aerial bunched Cable	EA	75.00	2	150.00
6	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	2	434.00
7	LT Stay set Complete	SET	736.00	1	736.00
8	7/12 SWG GI stay wire, Grade -2	KG	79.00	12	948.00
9	LT stay Clamp	EA	350.00	1	350.00
10	LT Stay insulator	EA	19.00	1	19.00
11	63 KVA , 11/ 0.4 KV (AL) Transformer, BIS Energy Loss level II, Ammendment-4	EA	141,309.00	1	141,309.00
12	LT Distribution Box for 63 KVA S/S	EA	26,990.00	1	26,990.00
13	55 SQ.MM. AAAC XLPE Covered Conductor	M	101.00	50	5,050.00
14	4 Cx 95 mm2 LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	M	533.00	15	7,995.00
15	1.1kV, 4Core, 95sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	533.00	40	21,320.00
16	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	20	5,220.00
17	AB Switch(11KV,200A.3pole,50Hz)	SET	9,080.00	1	9,080.00
18	DO.Fuse(11KV.200A.3Pole)	SET	3,214.00	1	3,214.00
19	10 AMP Fuse Link	EA	40.00	3	120.00
20	WEDGE CONNECTOR FOR 55 SQMM.CONDUCTOR	EA	100.00	3	300.00
21	POLYCARBONATE BIRD GUARD	EA	21.00	3	63.00
22	Disc insulator (B&S)70 KN polymer	EA	150.00	3	450.00
23	H W fitting (B&S)70KN(3bolted)	EA	412.00	3	1,236.00
24	Lightning Arrester(12KV,10KA) Station Class 2	EA	1,960.00	3	5,880.00
25	DMC Insulator for LA (70/10)	EA	113.50	8	908.00
26	HT stay set complete	SET	1,434.00	2	2,868.00
27	HT stay Clamp	EA	260.00	2	520.00
28	HT stay insulator TYPE-C	EA	87.00	2	174.00
29	7/10 SWG GI stay wire, Grade -2	KG	77.00	30	2,310.00
30	GI Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	7	9,100.00
31	GI Nuts & Bolts of Assorted size	KG	74.00	25	1,850.00
32	GI Barbed wire/Anticlimbing device	KG	74.00	6	444.00
33	Danger plate 11kv	EA	180.00	2	360.00
33	SMART LTCT ENERGY METER for DTR Metering	EA	4,717.00	1	4,717.00
A1	Total Cost of materials				352,555.00
A2	Applicable Taxes to make it Landed Cost @18%				63,459.90
A	Total landed Cost (A=A1 + A2)				416,014.90
B	Stock, Storage & Insurance i.e 3% of A				12,480.45
C	Sub Total (A+B)				428,495.35
D	Contingency @ 3% of C				12,854.86
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				7,316.59
F	Transportation @ 7.5% of C				32,137.15
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				12,091.95
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				11,957.83
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				882.38
J	Sum of (C to I)				505,736.11
Civil and Services Works					
1	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.9	5,983.97
2	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.226	1,502.64
3	PCC ratio 1:3:6(M-10 Grade) For DSS Area	M3	5,247.48	1.745	9,156.85
4	Supplying, Laying, spreading and compacting with hand roller stone aggregate of specified sizes: 63 mm to 45 mm size stone aggregate	M3	3,000.00	1.745	5,235.00
5	Fixing of HT complete Stay Set with all accessories and civil works	EA	2,301.53	2	4,603.05
6	Fixing of LT complete Stay Set with all accessories and civil works	EA	2,301.53	1	2,301.53
7	Construction of Earthing chamber including earthing pipe and civil works	EA	3,784.73	7	26,493.11
8	LTDB Plinth	EA	11,354.57	1	11,354.57
9	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	20	3,900.00
10	Laying of 4 Cx 95 mm2 LT XLPE Cable	M	47.87	55	2,632.94
11	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.375	2,493.32
12	SITC of Aluminium Lugs suitable for 95 sq mm cable/conductor	EA	92.06	24,000	2,209.44
13	SITC of termination kit of 1.1kV 3.5C/4C 35-120 sqmm	EA	3,840.00	2,000	7,680.00
14	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 50-95sqmm	EA	1,380.00	3,000	4,140.00
15	Earth work excavation of soil -Route Length	M			
15.i	Earth work excavation of soil	M3	716.03	0.700	501.22
15.ii	Earth work excavation of hard rock	M3	1,759.39	0.300	527.82
15.iii	Back filling with excavated soil outside and above the trench	M3	220.00	1.000	220.00
16	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	2,000	566.68
17	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1,000	1,000.00
18	SITC of DCP Extinguisher (6KG)	EA	4,500.00	1,000	4,500.00
19	SITC Display Board/Sign Board	EA	3,640.00	1,000	3,640.00
20	Fencing				
a	GI Chain link	EA			
20.1	GI chain link fencing for DSS	RM	4,167.57	18,000	75,016.30
K1	Total Civil & Services				175,658.43
K2	Applicable Taxes to make it Landed Cost @18%				31,618.52
K	Total landed Cost (K=K1+ K2)				207,276.94
L	Total (J+K)				713,013.06
N	Sub-Total (L+M)				713,013.06
O	CESS 1% of N				7,130.13
P	Gross Total Material +Services (N+O)				720,143.19
Q	Inspection Fee of Transformer (upto 100 KVA)				7,500.00
R	Inspection Fee of LV Cable				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				8,625.00
U	GST @ 18% on Total Inspection Fees (T)				1,552.50
V	Total Inspection Fees including GST (T+U)				10,177.50
W	Gross Total Material, Services and Inspection Fees (P+V)				730,320.69

Augmentation of lower size DTR with 11/0.4 KV, 63 kVA alongwith accessories.

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
2	GI Channel, angle & flat of different size	KG	78.00	300	23,400.00
3	9 Mtr. long PSC Pole	EA	3,630.00	1	3,630.00
4	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	2	480.00
5	EYE hook for XLPE Aerial bunched Cable	EA	75.00	2	150.00
6	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	2	434.00
11	63 KVA , 11/ 0.4 KV (AL) Transformer, BIS Energy Loss level II, Ammendment-4	EA	141,309.00	1	141,309.00
12	LT Distribution Box for 63 KVA S/S	EA	26,990.00	1	26,990.00
13	55 SQ.MM. AAAC XLPE Covered Conductor	M	101.00	50	5,050.00
14	4 Cx 95 mm2 LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	M	533.00	15	7,995.00
15	1.1kV, 4Core, 95sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	533.00	40	21,320.00
16	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	20	5,220.00
20	WEDGE CONNECTOR FOR 55 SQMM.CONDUCTOR	EA	100.00	3	300.00
21	POLYCARBONATE BIRD GUARD	EA	21.00	3	63.00
24	Lightning Arrester(12KV,10KA) Station Class 2	EA	1,960.00	3	5,880.00
25	DMC Insulator for LA (70/10)	EA	113.50	8	908.00
30	GI Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	4	5,200.00
31	GI Nuts & Bolts of Assorted size	KG	74.00	5	370.00
33	Danger plate 11kv	EA	180.00	2	360.00
A1	Total Cost of materials				249,059.00
A2	Applicable Taxes to make it Landed Cost @18%				44,830.62
A	Total landed Cost (A=A1 + A2)				293,889.62
B	Stock, Storage & Insurance i.e 3% of A				8,816.69
C	Sub Total (A+B)				302,706.31
D	Contingency @ 3% of C				9,081.19
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				5,088.25
F	Transportation @ 7.5% of C				22,702.97
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				8,587.35
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				7,825.35
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				882.38
J	Sum of (C to I)				356,873.80
Civil and Services Works					
4	Supplying, Laying, spreading and compacting with hand roller stone aggregate of specified sizes: 63 mm to 45 mm size stone aggregate	M3	3,000.00	1.745	5,235.00
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	4	15,138.92
8	LTDB Plinth	EA	11,354.57	1	11,354.57
9	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	20	3,900.00
10	Laying of 4 Cx 95 mm2 LT XLPE Cable	M	47.87	55	2,632.94
11	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.375	2,493.32
12	SITC of Aluminium Lugs suitable for 95 sq mm cable/conductor	EA	92.06	24.000	2,209.44
13	SITC of termination kit of 1.1kV 3.5C/4C 35-120 sqmm	EA	3,840.00	2.000	7,680.00
14	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 50-95sqmm	EA	1,380.00	3.000	4,140.00
15	Earth work excavation of soil -Route Length	M			
15.i	Earth work excavation of soil	M3	716.03	0.700	501.22
15.ii	Earth work excavation of hard rock	M3	1,759.39	0.300	527.82
15.iii	Back filling with excavated soil outside and above the trench	M3	220.00	1.000	220.00
16	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	2.000	566.68
17	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
18	SITC of DCP Extinguisher (6KG)	EA	4,500.00	1.000	4,500.00
19	SITC Display Board/Sign Board	EA	3,640.00	1.000	3,640.00
	Dismantling of existing 11/0.4kV, 33/0.4KV, Three Phase Distribution Transformer 25KVA including removal of HT/LT leads, earth connections and unloading by crane if required.	EA	1,534.35	1.000	1,534.35
K1	Total Civil & Services				67,274.26
K2	Applicable Taxes to make it Landed Cost @18%				12,109.37
K	Total landed Cost (K=K1+ K2)				79,383.63
L	Total (J+K)				436,257.43
N	Sub-Total (L+M)				436,257.43
O	CESS 1% of N				4,362.57
P	Gross Total Material +Services (N+O)				440,620.00
Q	Inspection Fee of Transformer (upto 100 KVA)				7,500.00
R	Inspection Fee of LV Cable				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				8,625.00
U	GST @ 18% on Total Inspection Fees (T)				1,552.50
V	Total Inspection Fees including GST (T+U)				10,177.50
W	Gross Total Material, Services and Inspection Fees (P+V)				450,797.50

Installation of New 11/0.4 KV, 100 KVA DTR (AI) alongwith accessories.					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
1	WPB (GI) Pole 160x152 11 Mtr. Long for DP	EA	28,835.00	2	57,670.00
2	GI Channel, angle & flat of different size	KG	78.00	533.146	41,585.39
3	9 Mtr. long PSC Pole	EA	3,630.00	1	3,630.00
4	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	2	480.00
5	EYE hook for XLPE Aerial bunched Cable	EA	75.00	2	150.00
6	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	2	434.00
7	LT Stay set Complete	SET	736.00	1	736.00
8	7/12 SWG GI stay wire, Grade -2	KG	79.00	12	948.00
9	LT stay Clamp	EA	350.00	1	350.00
10	LT Stay insulator	EA	19.00	1	19.00
11	100 KVA , 11/ 0.4 KV (AL) Transformer, BIS Energy Loss level II, Ammendment-4	EA	189,025.00	1	189,025.00
12	LT Distribution Box for 100 KVA S/S	EA	31,086.00	1	31,086.00
13	55 SQ.MM. AAAC XLPE Covered Conductor	M	101.00	50	5,050.00
14	4 Cx 150 mm2 LT XLPE Cable(Armoured) - FOR 100 KVA Trf.	M	850.00	15	12,750.00
15	1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	850.00	40	34,000.00
16	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	20	5,220.00
17	AB Switch(11KV,200A.3pole,50Hz)	SET	9,080.00	1	9,080.00
18	DO.Fuse(11KV,200A.3Pole)	SET	3,214.00	1	3,214.00
19	10 AMP Fuse Link	EA	40.00	3	120.00
20	WEDGE CONNECTOR FOR 55 SQMM.CONDUCTOR	EA	100.00	3	300.00
21	POLYCARBONATE BIRD GUARD	EA	21.00	3	63.00
22	Disc insulator (B&S)70 KN polymer	EA	150.00	3	450.00
23	H W fitting (B&S)70KN(3bolted)	EA	412.00	3	1,236.00
24	Lightning Arrester(12KV,10KA) Station Class 2	EA	1,960.00	3	5,880.00
25	DMC Insulator for LA (70/10)	EA	113.50	8	908.00
26	HT stay set complete	SET	1,434.00	2	2,868.00
27	HT stay Clamp	EA	260.00	2	520.00
28	HT stay insulator TYPE-C	EA	87.00	2	174.00
29	7/10 SWG GI stay wire, Grade -2	KG	77.00	30	2,310.00
30	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	7	9,100.00
31	GI Nuts & Bolts of Assorted size	KG	74.00	25	1,850.00
32	GI Barbed wire/Anticlimbing device	KG	74.00	6	444.00
33	Danger plate 11kv	EA	180.00	2	360.00
33	SMART LTCT ENERGY METER for DTR Metering	EA	4,717.00	1	4,717.00
A1	Total Cost of materials				426,727.39
A2	Applicable Taxes to make it Landed Cost @18%				76,810.93
A	Total landed Cost (A=A1 + A2)				503,538.32
B	Stock, Storage & Insurance i.e 3% of A				15,106.15
C	Sub Total (A+B)				518,644.47
D	Contingency @ 3% of C				15,559.33
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				8,695.76
F	Transportation @ 7.5% of C				38,898.34
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				14,991.66
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				13,054.29
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				882.38
J	Sum of (C to I)				610,726.22
Civil and Services Works					
1	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.9	5,983.97
2	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.226	1,502.64
3	PCC ratio 1:3:6(M-10 Grade) For DSS Area	M3	5,247.48	1.745	9,156.85
4	Supplying, Laying, spreading and compacting with hand roller stone aggregate of specified sizes: 63 mm to 45 mm size stone aggregate	M3	3,000.00	1.745	5,235.00
5	Fixing of HT complete Stay Set with all accessories and civil works	EA	2,301.53	2	4,603.05
6	Fixing of LT complete Stay Set with all accessories and civil works	EA	2,301.53	1	2,301.53
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	7	26,493.11
8	LTDB Plinth	EA	11,354.57	1	11,354.57
9	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	20	3,900.00
10	Laying of 4 Cx 150 mm2 LT XLPE Cable	M	60.00	55	3,300.00
11	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.375	2,493.32
12	SITC of Aluminium Lugs suitable for 150 sq mm cable/conductor	EA	156.50	24.000	3,756.00
13	SITC of termination kit of 1.1kv 3.5C/4C 150-240 sqmm	EA	4,920.00	2.000	9,840.00
14	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm	EA	2,230.00	3.000	6,690.00
15	Earth work excavation of soil -Route Length	M			
15.i	Earth work excavation of soil	M3	716.03	2.100	1,503.66
15.ii	Earth work excavation of hard rock	M3	1,759.39	0.900	1,583.45
15.iii	Back filling with excavated soil outside and above the trench	M3	220.00	3.000	660.00
16	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	2.000	566.68
17	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
18	SITC of DCP Extinguisher (6KG)	EA	4,500.00	1.000	4,500.00
19	SITC Display Board/Sign Board	EA	3,640.00	1.000	3,640.00
20	Fencing				
a	GI Chain link	EA			
b	Boundary Wall	EA			
20.1	GI chain link fencing for DSS	RM	4,167.57	18.000	75,016.30
K1	Total Civil & Services				185,080.12
K2	Applicable Taxes to make it Landed Cost @18%				33,314.42
K	Total landed Cost (K=K1+ K2)				218,394.54
L	Total (J+K)				829,120.77
N	Sub-Total (L+M)				829,120.77
O	CESS 1% of N				8,291.21
P	Gross Total Material +Services (N+O)				837,411.97
Q	Inspection Fee of Transformer (upto 100 KVA)				7,500.00
R	Inspection Fee of LV Cable				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				8,625.00
U	GST @ 18% on Total Inspection Fees (T)				1,552.50
V	Total Inspection Fees including GST (T+U)				10,177.50
W	Gross Total Material, Services and Inspection Fees (P+V)				847,589.47

Augmentation of lower size DTR with 11/0.4 KV, 100 kVA alongwith accessories.

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
2	GI Channel, angle & flat of different size	KG	78.00	300	23,400.00
3	9 Mtr. long PSC Pole	EA	3,630.00	1	3,630.00
4	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	2	480.00
5	EYE hook for XLPE Aerial bunched Cable	EA	75.00	2	150.00
6	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	2	434.00
11	100 KVA , 11/ 0.4 KV (AL) Transformer, BIS Energy Loss level II, Ammendment-4	EA	189,025.00	1	189,025.00
12	LT Distribution Box for 100 KVA S/S	EA	31,086.00	1	31,086.00
13	55 SQ.MM. AAAC XLPE Covered Conductor	M	101.00	50	5,050.00
14	4 Cx 150 mm2 LT XLPE Cable(Armoured) - FOR 100 KVA Trf.	M	850.00	15	12,750.00
15	1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	850.00	40	34,000.00
16	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	20	5,220.00
20	WEDGE CONNECTOR FOR 55 SQMM.CONDUCTOR	EA	100.00	3	300.00
21	POLYCARBONATE BIRD GUARD	EA	21.00	3	63.00
24	Lightning Arrester(12KV,10KA) Station Class 2	EA	1,960.00	3	5,880.00
25	DMC Insulator for LA (70/10)	EA	113.50	8	908.00
30	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	4	5,200.00
31	GI Nuts & Bolts of Assorted size	KG	74.00	5	370.00
33	Danger plate 11kv	EA	180.00	2	360.00
A1	Total Cost of materials				318,306.00
A2	Applicable Taxes to make it Landed Cost @18%				57,295.08
A	Total landed Cost (A=A1 + A2)				375,601.08
B	Stock, Storage & Insurance i.e 3% of A				11,268.03
C	Sub Total (A+B)				386,869.11
D	Contingency @ 3% of C				11,606.07
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				6,347.69
F	Transportation @ 7.5% of C				29,015.18
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				11,487.05
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				8,323.18
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				882.38
J	Sum of (C to I)				454,530.67
Civil and Services Works					
3	PCC ratio 1:3:6(M-10 Grade) For DSS Area	M3	5,247.48	1.745	9,156.85
4	Supplying, Laying, spreading and compacting with hand roller stone aggregate of specified sizes: 63 mm to 45 mm size stone aggregate	M3	3,000.00	1.745	5,235.00
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	4	15,138.92
8	LTDB Plinth	EA	11,354.57	1	11,354.57
9	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	20	3,900.00
10	Laying of 4 Cx 150 mm2 LT XLPE Cable	M	60.00	55	3,300.00
11	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.375	2,493.32
12	SITC of Aluminium Lugs suitable for 150 sq mm cable/conductor	EA	156.50	24.000	3,756.00
13	SITC of termination kit of 1.1kV 3.5C/4C 150-240 sqmm	EA	4,920.00	2.000	9,840.00
14	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm	EA	2,230.00	3.000	6,690.00
15	Earth work excavation of soil -Route Length	M			
15.i	Earth work excavation of soil	M3	716.03	0.700	501.22
15.ii	Earth work excavation of hard rock	M3	1,759.39	0.300	527.82
15.iii	Back filling with excavated soil outside and above the trench	M3	220.00	1.000	220.00
16	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	2.000	566.68
17	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
18	SITC of DCP Extinguisher (6KG)	EA	4,500.00	1.000	4,500.00
19	SITC Display Board/Sign Board	EA	3,640.00	1.000	3,640.00
	Dismantling of existing 11/0.4kV, 33/0.4KV, Three Phase Distribution Transformer 63KVA including removal of HT/LT leads, earth connections and unloading by crane if required.	EA	1,841.22	1.000	1,841.22
K1	Total Civil & Services				83,661.59
K2	Applicable Taxes to make it Landed Cost @18%				15,059.09
K	Total landed Cost (K=K1+ K2)				98,720.68
L	Total (J+K)				553,251.35
N	Sub-Total (L+M)				553,251.35
O	CESS 1% of N				5,532.51
P	Gross Total Material +Services (N+O)				558,783.87
Q	Inspection Fee of Transformer (upto 100 KVA)				7,500.00
R	Inspection Fee of LV Cable				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				8,625.00
U	GST @ 18% on Total Inspection Fees (T)				1,552.50
V	Total Inspection Fees including GST (T+U)				10,177.50
W	Gross Total Material, Services and Inspection Fees (P+V)				568,961.37

Installation of New 11/0.4 KV, 250 KVA DTR (Cu) alongwith accessories.					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
1	Supply of 11kV RMU 1WAY 630A SINGLE BREAKER MOUDLE+AUXPT	EA	414,079.00	1	414,079.00
2	Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)	M	1,014.00	20	20,280.00
3	Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, HT UG Cable kits	EA	1,830.00	2	3,660.00
4	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, HT UG Cable kits	EA	2,060.00	2	4,120.00
5	Lightning Arrester(12KV,10KA) Station Class 2	EA	1,960.00	3	5,880.00
6	9 Mtr. long PSC Pole	EA	3,630.00	1	3,630.00
7	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	4	960.00
8	EYE hook for XLPE Aerial bunched Cable	EA	75.00	4	300.00
9	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	4	868.00
10	LT Stay set Complete	SET	736.00	1	736.00
11	7/12 SWG GI stay wire, Grade -2	KG	79.00	12	948.00
12	LT stay Clamp	EA	350.00	1	350.00
13	LT Stay insulator	EA	19.00	1	19.00
14	GI Channel, angle & flat of different size	KG	78.00	352.688	27,509.66
15	250 KVA , 11/ 0.4 KV (Cu) Transformer with Tap Changer BIS Energy Loss level II, Ammendment-4	EA	619,789.00	1.00	619,789.00
16	LT Distribution Box for 250 KVA S/S	EA	55,267.00	1	55,267.00
17	1 Cx 630 mm2 LT XLPE Cable(Un-Armoured)	M	642.00	60.00	38,520.00
18	Supply of 1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	850.00	102.40	87,040.00
19	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	40	10,440.00
20	GI Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	9.00	11,700.00
21	GI Nuts & Bolts of Assorted size	KG	74.00	10	740.00
33	SMART LTCT ENERGY METER for DTR Metering	EA	4,717.00	1	4,717.00
A1	Total Cost of materials				1,311,552.66
A2	Applicable Taxes to make it Landed Cost @18%				236,079.48
A	Total landed Cost (A=A1 + A2)				1,547,632.14
B	Stock, Storage & Insurance i.e 3% of A				46,428.96
C	Sub Total (A+B)				1,594,061.11
D	Contingency @ 3% of C				47,821.83
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				17,493.51
F	Transportation @ 7.5% of C				119,554.58
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				37,664.58
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				11,697.21
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				882.38
J	Sum of (C to I)				1,829,175.21
Civil and Services Works					
1	Erection of 11kV RMU 1WAY 630A SINGLE BREAKER MOUDLE+AUXPT	EA	14,475.00	1	14,475.00
2	RMU Plinth	EA	26,000.00	1	26,000.00
3	Laying, Commissioning & Testing of 11kV, 3Core, 95sqmm, XLPE insulation (extruded type) UG cable by open trench method.	M	110.00	20	2,200.00
4	Erection of Outdoor termination kits/Indoor termination Kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits	EA	2,000.00	4	8,000.00
5	PCC ratio 1:3:6(M-10 Grade) For DSS Area	M3	5,247.48	3	16,784.06
6	Supplying, Laying, spreading and compacting with hand roller stone aggregate of specified sizes: 63 mm to 45 mm size stone aggregate	M3	3,000.00	3.1985	9,595.50
7	Construction of Earthing chamber including earthing pipe and civil works	EA	3,784.73	9	34,062.57
8	LTDB Plinth	EA	11,354.57	1	11,354.57
9	DTR Plinth	EA	70,988.27	1	70,988.27
10	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	40	7,800.00
11	Laying of 4 Cx 150 mm2 LT XLPE Cable	M	60.00	102	6,144.00
12	Laying of 1.1kV cable from 400 to 1000sqmm	M	70.00	60	4,200.00
13	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.375	2,493.32
14	SITC of Aluminium Lugs suitable for 630 sq mm cable/conductor	EA	460.31	8.000	3,682.48
15	SITC of Aluminium Lugs suitable for 150 sq mm cable/conductor	EA	156.50	32.000	5,008.00
16	SITC of double Compression Flameproof Type Glanding for armored Cable 1C 300-1000 sqmm	EA	1,227.48	8.000	9,819.84
17	SITC of termination kit of 1.1kV 3.5C/4C 150-240 sqmm	EA	4,920.00	4.000	19,680.00
18	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm	EA	2,230.00	4.000	8,920.00
19	Earth work excavation of soil -Route Length	M			
19.i	Earth work excavation of soil	M3	716.03	2.100	1,503.66
19.ii	Earth work excavation of hard rock	M3	1,759.39	0.900	1,583.45
19.iii	Back filling with excavated soil outside and above the trench	M3	220.00	3.000	660.00
21	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
22	SITC of DCP Extinguisher (6KG)	EA	4,500.00	1.000	4,500.00
23	SITC Display Board/Sign Board	EA	3,640.00	1.000	3,640.00
24	Fencing				
a	GI Chain link	EA			
b	Boundary Wall	EA			
24.1	GI chain link fencing for DSS	RM	4,167.57	19.200	80,017.39
K1	Total Civil & Services				354,112.11
K2	Applicable Taxes to make it Landed Cost @18%				63,740.18
K	Total landed Cost (K=K1+ K2)				417,852.29
L	Total (J+K)				2,247,027.49
N	Sub-Total (L+M)				2,247,027.49
O	CESS 1% of N				22,470.27
P	Gross Total Material +Services (N+O)				2,269,497.77
Q	Inspection Fee of Transformer (100kVA to 1000KVA)				10,500.00
R	Inspection Fee of LV Cable				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				11,625.00
U	GST @ 18% on Total Inspection Fees (T)				2,092.50
V	Total Inspection Fees including GST (T+U)				13,717.50
W	Gross Total Material, Services and Inspection Fees (P+V)				2,283,215.27

Augmentation of lower size DTR with 11/0.4 KV, 250 kVA alongwith accessories.

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
1	Supply of 11kV RMU 1WAY 630A SINGLE BREAKER MOUDLE+AUXPT	EA	414,079.00	1	414,079.00
2	Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)	M	1,014.00	20	20,280.00
3	Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, HT UG Cable kits	EA	1,830.00	2	3,660.00
4	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, HT UG Cable kits	EA	2,060.00	2	4,120.00
5	Lightning Arrester(12KV,10KA) Station Class 2	EA	1,960.00	3	5,880.00
6	9 Mtr. long PSC Pole	EA	3,630.00	1	3,630.00
7	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	4	960.00
8	EYE hook for XLPE Aerial bunched Cable	EA	75.00	4	300.00
9	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	4	868.00
14	GI Channel, angle & flat of different size	KG	78.00	352.688	27,509.66
15	250 KVA , 11/ 0.4 KV (Cu) Transformer with Tap Changer BIS Energy Loss level II, Ammendment-4	EA	619,789.00	1.00	619,789.00
16	LT Distribution Box for 250 KVA S/S	EA	55,267.00	1	55,267.00
17	1 Cx 630 mm2 LT XLPE Cable(Un-Armoured)	M	642.00	60.00	38,520.00
18	Supply of 1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	850.00	106.00	90,100.00
19	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	40	10,440.00
20	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	5.00	6,500.00
21	GI Nuts & Bolts of Assorted size	KG	74.00	5	370.00
A1	Total Cost of materials				1,302,272.66
A2	Applicable Taxes to make it Landed Cost @18%				234,409.08
A	Total landed Cost (A=A1 + A2)				1,536,681.74
B	Stock, Storage & Insurance i.e 3% of A				46,100.45
C	Sub Total (A+B)				1,582,782.20
D	Contingency @ 3% of C				47,483.47
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				17,369.86
F	Transportation @ 7.5% of C				118,708.66
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				37,664.58
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				11,078.94
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				882.38
J	Sum of (C to I)				1,815,970.08
Civil and Services Works					
1	Erection of 11kV RMU 1WAY 630A SINGLE BREAKER MOUDLE+AUXPT	EA	14,475.00	1	14,475.00
2	RMU Plinth	EA	26,000.00	1	26,000.00
3	Laying, Commissioning & Testing of 11kV, 3Core, 95sqmm, XLPE insulation (extruded type) UG cable by open trench method.	M	110.00	20	2,200.00
4	Erection of Outdoor termination kits/Indoor termination Kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits	EA	2,000.00	4	8,000.00
5	PCC ratio 1:3:6(M-10 Grade) For DSS Area	M3	5,247.48	3	16,784.06
6	Supplying, Laying, spreading and compacting with hand roller stone aggregate of specified sizes: 63 mm to 45 mm size stone aggregate	M3	3,000.00	3.1985	9,595.50
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	5	18,923.65
8	LTDB Plinth	EA	11,354.57	1	11,354.57
9	DTR Plinth	EA	70,988.27	1	70,988.27
10	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	40	7,800.00
11	Laying of 4 Cx 150 mm2 LT XLPE Cable	M	60.00	106	6,360.00
12	Laying of 1.1kV cable from 400 to 1000sqmm	M	70.00	60	4,200.00
13	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.375	2,493.32
14	SITC of Aluminium Lugs suitable for 630 sq mm cable/conductor	EA	460.31	8.000	3,682.48
15	SITC of Aluminium Lugs suitable for 150 sq mm cable/conductor	EA	156.50	32.000	5,008.00
16	SITC of double Compression Flameproof Type Glanding for armored Cable 1C 300-1000 sqmm	EA	1,227.48	8.000	9,819.84
17	SITC of termination kit of 1.1kV 3.5C/4C 150-240 sqmm	EA	4,920.00	4.000	19,680.00
18	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm	EA	2,230.00	4.000	8,920.00
19	Earth work excavation of soil -Route Length	M			
19.i	Earth work excavation of soil	M3	716.03	0.700	501.22
19.ii	Earth work excavation of hard rock	M3	1,759.39	0.300	527.82
19.iii	Back filling with excavated soil outside and above the trench	M3	220.00	1.000	220.00
21	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
22	SITC of DCP Extinguisher (6KG)	EA	4,500.00	1.000	4,500.00
23	SITC Display Board/Sign Board	EA	3,640.00	1.000	3,640.00
	Dismantling of existing 11/0.4kV, 33/0.4KV, Three Phase Distribution Transformer 100KVA including removal of HT/LT leads, earth connections and unloading by crane if required.	EA	3,262.64	1.000	3,262.64
K1	Total Civil & Services				259,936.37
K2	Applicable Taxes to make it Landed Cost @18%				46,788.55
K	Total landed Cost (K=K1+ K2)				306,724.91
L	Total (J+K)				2,122,694.99
N	Sub-Total (L+M)				2,122,694.99
O	CESS 1% of N				21,226.95
P	Gross Total Material +Services (N+O)				2,143,921.94
Q	Inspection Fee of Transformer (100kVA to 1000KVA)				10,500.00
R	Inspection Fee of LV Cable				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				11,625.00
U	GST @ 18% on Total Inspection Fees (T)				2,092.50
V	Total Inspection Fees including GST (T+U)				13,717.50
W	Gross Total Material, Services and Inspection Fees (P+V)				2,157,639.44

Installation of New 11/0.4 KV, 500 KVA DTR (Cu) alongwith accessories.					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
1	Supply of 11kV RMU 1WAY 630A SINGLE BREAKER MOUDLE+AUXPT	EA	414,079.00	1	414,079.00
2	Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)	M	1,014.00	20	20,280.00
3	Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, HT UG Cable kits	EA	1,830.00	2	3,660.00
4	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, HT UG Cable kits	EA	2,060.00	2	4,120.00
5	Lightning Arrester(12KV,10KA) Station Class 2	EA	1,960.00	3	5,880.00
6	9 Mtr. long PSC Pole	EA	3,630.00	1	3,630.00
7	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	4	960.00
8	EYE hook for XLPE Aerial bunched Cable	EA	75.00	4	300.00
9	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	4	868.00
10	LT Stay set Complete	SET	736.00	1	736.00
11	7/12 SWG GI stay wire, Grade -2	KG	79.00	12	948.00
12	LT stay Clamp	EA	350.00	1	350.00
13	LT Stay insulator	EA	19.00	1	19.00
14	GI Channel, angle & flat of different size	KG	78.00	352.688	27,509.66
15	500 KVA , 11/ 0.4 KV (Cu) Transformer with Tap Changer BIS Energy Loss level II, Ammendment-4	EA	1,225,143.00	1.00	1,225,143.00
16	LT DISTRIBUTION BOX (GI)with for 500 kVA S/S	EA	82,666.00	1	82,666.00
17	1 Cx 630 mm2 LT XLPE Cable(Un-Armoured)	M	642.00	60.00	38,520.00
18	Supply of 1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	850.00	120.00	102,000.00
19	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	40	10,440.00
20	GI Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	9.00	11,700.00
21	GI Nuts & Bolts of Assorted size	KG	74.00	10	740.00
33	SMART LTCT ENERGY METER for DTR Metering	EA	4,717.00	1	4,717.00
A1	Total Cost of materials				1,959,265.66
A2	Applicable Taxes to make it Landed Cost @18%				352,667.82
A	Total landed Cost (A=A1 + A2)				2,311,933.48
B	Stock, Storage & Insurance i.e 3% of A				69,358.00
C	Sub Total (A+B)				2,381,291.49
D	Contingency @ 3% of C				71,438.74
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				32,874.47
F	Transportation @ 7.5% of C				178,596.86
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				74,451.94
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				15,027.29
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				882.38
J	Sum of (C to I)				2,754,563.17
Civil and Services Works					
1	Erection of 11kV RMU 1WAY 630A SINGLE BREAKER MOUDLE+AUXPT	EA	14,475.00	1	14,475.00
2	RMU Plinth	EA	26,000.00	1	26,000.00
3	Laying, Commissioning & Testing of 11kV, 3Core, 95sqmm, XLPE insulation (extruded type) UG cable by open trench method.	M	110.00	20	2,200.00
4	Erection of Outdoor termination kits/Indoor termination Kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits	EA	2,000.00	4	8,000.00
5	PCC ratio 1:3:6(M-10 Grade) For DSS Area	M3	5,247.48	3	16,784.06
6	Supplying, Laying, spreading and compacting with hand roller stone aggregate of specified sizes: 63 mm to 45 mm size stone aggregate	M3	3,000.00	3.1985	9,595.50
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	9	34,062.57
8	LTDB Plinth	EA	11,354.57	1	11,354.57
9	DTR Plinth	EA	70,988.27	1	70,988.27
10	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	40	7,800.00
11	Laying of 4 Cx 150 mm2 LT XLPE Cable	M	60.00	120	7,200.00
12	Laying of 1.1kV cable from 400 to 1000sqmm	M	70.00	60	4,200.00
13	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.375	2,493.32
14	SITC of Aluminium Lugs suitable for 630 sq mm cable/conductor	EA	460.31	8.000	3,682.48
15	SITC of Aluminium Lugs suitable for 150 sq mm cable/conductor	EA	156.50	32.000	5,008.00
16	SITC of double Compression Flameproof Type Glanding for armored Cable 1C 300-1000 sqmm	EA	1,227.48	8.000	9,819.84
17	SITC of termination kit of 1.1kV 3.5C/4C 150-240 sqmm	EA	4,920.00	4.000	19,680.00
18	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm	EA	2,230.00	4.000	8,920.00
19	Earth work excavation of soil -Route Length	M			
19.i	Earth work excavation of soil	M3	716.03	2.100	1,503.66
19.ii	Earth work excavation of hard rock	M3	1,759.39	0.900	1,583.45
19.iii	Back filling with excavated soil outside and above the trench	M3	220.00	3.000	660.00
21	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
22	SITC of DCP Extinguisher (6KG)	EA	4,500.00	1.000	4,500.00
23	SITC Display Board/Sign Board	EA	3,640.00	1.000	3,640.00
24	Fencing				
a	GI Chain link	EA			
b	Boundary Wall	EA			
24.1	GI chain link fencing for DSS	RM	4,167.57	19.200	80,017.39
K1	Total Civil & Services				355,168.11
K2	Applicable Taxes to make it Landed Cost @18%				63,930.26
K	Total landed Cost (K=K1+ K2)				419,098.37
L	Total (J+K)				3,173,661.54
N	Sub-Total (L+M)				3,173,661.54
O	CESS 1% of N				31,736.62
P	Gross Total Material +Services (N+O)				3,205,398.15
Q	Inspection Fee of Transformer (100kVA to 1000KVA)				10,500.00
R	Inspection Fee of LV Cable				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				11,625.00
U	GST @ 18% on Total Inspection Fees (T)				2,092.50
V	Total Inspection Fees including GST (T+U)				13,717.50
W	Gross Total Material, Services and Inspection Fees (P+V)				3,219,115.65

Augmentation of lower size DTR with 11/0.4 KV, 500 kVA alongwith accessories.

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
SUPPLY OF FOLLOWING EQUIPMENT & MATERIALS					
1	Supply of 11kV RMU 1WAY 630A SINGLE BREAKER MOUDLE+AUXPT	EA	414,079.00	1	414,079.00
2	Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)	M	1,014.00	20	20,280.00
3	Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, HT UG Cable kits	EA	1,830.00	2	3,660.00
4	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, HT UG Cable kits	EA	2,060.00	2	4,120.00
5	Lightning Arrester(12KV,10KA) Station Class 2	EA	1,960.00	3	5,880.00
6	9 Mtr. long PSC Pole	EA	3,630.00	1	3,630.00
7	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	4	960.00
8	EYE hook for XLPE Aerial bunched Cable	EA	75.00	4	300.00
9	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	4	868.00
14	GI Channel, angle & flat of different size	KG	78.00	352.688	27,509.66
15	500 KVA , 11/ 0.4 KV (Cu) Transformer with Tap Changer BIS Energy Loss level II, Ammendment-4	EA	1,225,143.00	1.00	1,225,143.00
16	LT DISTRIBUTION BOX (GI)with for 500 kVA S/S	EA	82,666.00	1	82,666.00
17	1 Cx 630 mm2 LT XLPE Cable(Un-Armoured)	M	642.00	60.00	38,520.00
18	Supply of 1.1kV, 4Core, 150 sqmm, XLPE insulation armoured -Aluminium UG cable from LTDB to Pole	M	850.00	118.00	100,300.00
19	HDPE pipe of 110 mm diameter, PE 80- PN8	M	261.00	40	10,440.00
20	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	5.00	6,500.00
21	GI Nuts & Bolts of Assorted size	KG	74.00	5	370.00
33	SMART LTCT ENERGY METER for DTR Metering	EA	4,717.00	1	4,717.00
A1	Total Cost of materials				1,949,942.66
A2	Applicable Taxes to make it Landed Cost @18%				350,989.68
A	Total landed Cost (A=A1 + A2)				2,300,932.34
B	Stock, Storage & Insurance i.e 3% of A				69,027.97
C	Sub Total (A+B)				2,369,960.31
D	Contingency @ 3% of C				71,098.81
E	Tools & Plants @ 2% of C (except Stay/HDPE Pipe/Earthing/Cable)				32,865.48
F	Transportation @ 7.5% of C				177,747.02
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				74,451.94
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				14,982.32
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				882.38
J	Sum of (C to I)				2,741,988.26
Civil and Services Works					
1	Erection of 11kV RMU 1WAY 630A SINGLE BREAKER MOUDLE+AUXPT	EA	14,475.00	1	14,475.00
2	RMU Plinth	EA	26,000.00	1	26,000.00
3	Laying, Commissioning & Testing of 11kV, 3Core, 95sqmm, XLPE insulation (extruded type) UG cable by open trench method.	M	110.00	20	2,200.00
4	Erection of Outdoor termination kits/Indoor termination Kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits	EA	2,000.00	4	8,000.00
5	PCC ratio 1:3:6(M-10 Grade) For DSS Area	M3	5,247.48	3	16,784.06
6	Supplying, Laying, spreading and compacting with hand roller stone aggregate of specified sizes: 63 mm to 45 mm size stone aggregate	M3	3,000.00	3.1985	9,595.50
7	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	5	18,923.65
8	LTDB Plinth	EA	11,354.57	1	11,354.57
9	DTR Plinth	EA	70,988.27	1	70,988.27
10	Laying of 110mm dia PE 80-PN8, HDPE pipe inside open trench.	M	195.00	40	7,800.00
11	Laying of 4 Cx 150 mm2 LT XLPE Cable	M	60.00	118	7,080.00
12	Laying of 1.1kV cable from 400 to 1000sqmm	M	70.00	60	4,200.00
13	Concreting ratio 1:1.5:3(M-20 Grade)-For PSC Pole	M3	6,648.85	0.375	2,493.32
14	SITC of Aluminium Lugs suitable for 630 sq mm cable/conductor	EA	460.31	8.000	3,682.48
15	SITC of Aluminium Lugs suitable for 150 sq mm cable/conductor	EA	156.50	32.000	5,008.00
16	SITC of double Compression Flameproof Type Glanding for armored Cable 1C 300-1000 sqmm	EA	1,227.48	8.000	9,819.84
17	SITC of termination kit of 1.1kV 3.5C/4C 150-240 sqmm	EA	4,920.00	4.000	19,680.00
18	SITC of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 120-185sqmm	EA	2,230.00	4.000	8,920.00
19	Earth work excavation of soil -Route Length	M			
19.i	Earth work excavation of soil	M3	716.03	0.700	501.22
19.ii	Earth work excavation of hard rock	M3	1,759.39	0.300	527.82
19.iii	Back filling with excavated soil outside and above the trench	M3	220.00	1.000	220.00
21	GIS coordinate mapping, drawing preparation and submission of the same for DSS.	EA	1,000.00	1.000	1,000.00
22	SITC of DCP Extinguisher (6KG)	EA	4,500.00	1.000	4,500.00
23	SITC Display Board/Sign Board	EA	3,640.00	1.000	3,640.00
K1	Total Civil & Services				257,393.73
K2	Applicable Taxes to make it Landed Cost @18%				46,330.87
K	Total landed Cost (K=K1+ K2)				303,724.60
L	Total (J+K)				3,045,712.86
N	Sub-Total (L+M)				3,045,712.86
O	CESS 1% of N				30,457.13
P	Gross Total Material +Services (N+O)				3,076,169.99
Q	Inspection Fee of Transformer (100kVA to 1000KVA)				10,500.00
R	Inspection Fee of LV Cable				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				11,625.00
U	GST @ 18% on Total Inspection Fees (T)				2,092.50
V	Total Inspection Fees including GST (T+U)				13,717.50
W	Gross Total Material, Services and Inspection Fees (P+V)				3,089,887.49

Installation of New 11/0.4 KV, 1000 KVA CSS alongwith accessories.					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	1000 KVA , 11/ 0.4 KV Compact Sub-station	EA	3,732,666.00	1	3,732,666.00
2	50x6mm Flat(GI) for earthing	KG	78.00	350.00	27,300.00
3	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	7.00	9,100.00
4	FRTU for RMU SCADA Automation				
a	No. of FRTU	EA			
4.1	Pre-Wired FRTU Panel with FRTU	EA	156,247.00	1.00	156,247.00
4.2	Managed Layer2 Ethernet Switch (FRTU Panel)	EA	95,000.00	1.00	95,000.00
4.3	Networking Accessories	EA	72.00	1.00	72.00
4.4	CMR with Mounting Base for Digital Inputs	EA	275.00	32.00	8,800.00
4.5	Interposing Relay for Digital Output	EA	275.00	16.00	4,400.00
4.6	Battery Charger	EA	17,500.00	1.00	17,500.00
4.7	Battery	EA	12,500.00	1.00	12,500.00
4.8	4G Modem cum Router	EA	24,400.00	1.00	24,400.00
4.9	Instrumentation Cable 12 C X 0.5 mm2, Armored cable for Status and Indications	M	309.00	40.00	12,360.00
4.10	Instrumentation Cable 7 C X 1.5 mm2, Armored for Control Output	M	299.00	40.00	11,960.00
4.11	Twisted Pair Shielded & Over all shielded Instrumentation Cable 5 P X 1.0 mm2, Armored for Analog Input	M	382.00	40.00	15,280.00
4.12	4 C X 2.5 mm2 Copper cable for extension of CT & PT	M	185.59	20.00	3,711.80
4.13	2 C X 4 mm2 Cable for DC Power Supply	M	210.00	10.00	2,100.00
4.14	4P X 0.36 mm2, Armored Communication Cable for MFM	M	229.00	20.00	4,580.00
4.15	Armored CAT6 SFTP Cable	M	107.00	20.00	2,140.00
4.16	Un-Armored CAT6 SFTP Cable	M	55.00	20.00	1,100.00
4.17	Multi Function Meter	EA	14,000.00	2.00	28,000.00
33	SMART LTCT ENERGY METER for DTR Metering	EA	4,717.00	1	4,717.00
A1	Total Cost of materials				4,173,933.80
A2	Applicable Taxes to make it Landed Cost @18%				751,308.08
A	Total landed Cost (A=A1 + A2)				4,925,241.88
B	Stock, Storage & Insurance i.e 3% of A				147,757.26
C	Sub Total (A+B)				5,072,999.14
D	Contingency @ 3% of C				152,189.97
E	Tools & Plants @ 2% of C (considered for earthing items)				663.61
F	Transportation @ 7.5% of C				380,474.94
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/HDPE Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				3,318.04
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sub Total (Supply Portion) (C to I)				5,609,645.70
Erection Portion					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Erection of 1000 KVA , 11/ 0.4 KV Compact substation	EA	51,758.74	1.00	51,758.74
2	FRTU and OFC for RMU SCADA Automation				
2.1	Services of FRTU Panel, Communication and Other Supplied System	EA	6,755.00	1.00	6,755.00
	Sub Total (Erection Portion)				58,513.74
Civil Portion					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Construction of Earthing chamber incuding earthing pipe and civil works	EA.	3,784.73	7.00	26,493.11
2	PCC ratio 1:3:6(M-10 Grade) For CSS Area	M3	5,247.48	3.20	16,784.06
3	Supplying, Laying, spreading and compacting with hand roller stone aggregate of specified sizes: 63 mm to 45 mm size stone aggregate	M3	3,000.00	3.1985	9,595.50
4	GIS coordinate mapping, drawing preparation and submission of the same for CSS.	EA	1,000.00	1.000	1,000.00
5	SITC of DCP Extinguisher (6KG)	EA	4,500.00	1.000	4,500.00
6	SITC Display Board/Sign Board	EA	3,640.00	1.000	3,640.00
7	CSS Plinth	EA	402,415.97	1	402,415.97

8	Fencing				
a	GI Chain link	EA			
b	Boundary Wall	EA			
8.1	GI chain link fencing for DSS	RM	4,167.57	22	91,686.59
8.2	Boundary wall Fencing for DSS	RM	11,173.88	0	-
K	Sub Total (Civil Portion)				556,115.23
L1	Sub Total (Erection Portion + Civil Portion)				614,628.97
L2	Applicable Taxes to make it Landed Cost @18%				110,633.21
L	Total landed Cost (L=L1+ L2)				725,262.18
M	Total (J+L)				6,334,907.88
O	Sub-Total (L+M)				6,334,907.88
P	CESS 1% of O				63,349.08
Q	Gross Total Material +Services (O+P)				6,398,256.96
R	Inspection Fee of Transformer (100kVA to 1000kVA)				10,500.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (R+S)				11,250.00
U	GST @ 18% on Total Inspection Fees (T)				2,025.00
V	Total Inspection Fees including GST (T+U)				13,275.00
W	Gross Total Material, Services and Inspection Fees (Q+V)				6,411,531.96

11kV Line Length with 40 Mtr. Span using 100 SQ.MM. -AAA Conductor - for 11kV Line Extension

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 11 Mtr. Long for DP	EA	28,835.00	2	57,670.00
2	GI Channel, angle & flat of different size	KG	78.00	179.169	13,975.18
3	Danger Plate	EA	180.00	2	360.00
4	H.T. Stay clamp	EA	260.00	2	520.00
5	H.T. Stay set (Complete)	SET	1,434.00	2	2,868.00
6	H.T. Stay Insulator Type-C	EA	87.00	2	174.00
7	7/10 SWG Stay Wire	KG	77.00	30	2,310.00
8	GI Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	2	2,600.00
9	GI barbed wire anticlimbing device	KG	74.00	6	444.00
10	11 KV pin insulator polymer	EA	140.00	3	420.00
11	NON METALLIC TIES-11KV 100 SQMM CVRD AAAC	EA	110.00	3	330.00
12	IPC for 100 sq.mm AAA conductor (For covered conductor)-11 kV	EA	550.00	6	3,300.00
13	Spike (GI) (2 Nos of spike per Set in each Pole)	SET	220.00	4	880.00
14	Dead end assembly with accessories for 100 Sq.mm. AAAC	EA	2,500.00	6	15,000.00
15	Disc insulator (B&S) 70 KN polymer	EA	150.00	6	900.00
16	GI Nut , Bolt & Washer of different sizes	KG	74.00	11.572	856.33
A1	Total Cost of materials				102,607.51
A2	Applicable Taxes to make it Landed Cost @18%				18,469.35
A	Total landed Cost (A=A1 + A2)				121,076.86
B	Stock, Storage & Insurance i.e 3% of A				3,632.31
C	Sub Total (A+B)				124,709.17
D	Contingency @ 3% of C				3,741.28
E	Tools & Plants @ 2% of C (Except HT Stay Set / GI Pipe earthing)				2,288.25
F	Transportation @ 7.5% of C				9,353.19
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				3,504.61
H	C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				4,432.02
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				148,028.50

Civil & Services

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	2	4,603.05
2	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.90	5,983.97
3	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.23	1,495.99
4	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	2	7,569.46
5	GIS Mapping, indexing/numbering of Poles	EA	836.00	1	836.00
6	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	2	566.68
K1	Total Civil & Services				21,055.15
K2	Applicable Taxes to make it Landed Cost @18%				3,789.93
K	Total landed Cost (K=K1+ K2)				24,845.07
L	Total (J+K)				172,873.57
N	Sub-Total (L+M)				172,873.57
O	CESS 1% of N				1,728.74
P	Gross Total Material +Services (N+O) for DP Without AB Switch				174,602.31

**No. of DP required With AB Switch
(Ref. Drawing No.- PD-1346-TPCODL-COM-LINE-8039)**

1

MATERIALS OF DP With AB Switch

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 11 Mtr. Long for DP	EA	28,835.00	2	57,670.00
2	GI Channel, angle & flat of different size	KG	78.00	322.025	25,117.95
3	DMC Insulator for LA (70/10)	EA	113.50	8	908.00
4	Danger Plate	EA	180.00	2	360.00
5	H.T. Stay clamp	EA	260.00	4	1,040.00
6	H.T. Stay set (Complete)	SET	1,434.00	4	5,736.00
7	H.T. Stay Insulator Type-C	EA	87.00	4	348.00
8	7/10 SWG Stay Wire	KG	77.00	60	4,620.00
9	GI Pipe Earthing 40mm. 3 Mtr. Long	EA	1,300.00	2	2,600.00
10	GI barbed wire anticlimbing device	KG	74.00	6	444.00
11	Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	1,960.00	3	5,880.00
12	AB Switch (11KV,400A.3pole,50Hz)	SET	10,972.00	1	10,972.00
13	11 KV pin insulator polymer	EA	140.00	3	420.00
14	NON METALLIC TIES-11KV 100 SQMM CVRD AAAC	EA	110.00	3	330.00
15	IPC for 100 sq.mm AAA conductor (For covered conductor)-11 kV	EA	550.00	6	3,300.00
16	Spike (GI) (2 Nos of spike per Set in each Pole)	SET	220.00	4	880.00
17	Dead end assembly with accessories for 100 Sq.mm. AAAC	EA	2,500.00	6	15,000.00
18	Disc insulator (B&S) 70 KN polymer	EA	150.00	6	900.00
19	GI Nut , Bolt & Washer of different sizes	KG	74.00	11.036	816.66

A1	Total Cost of materials	137,342.61
A2	Applicable Taxes to make it Landed Cost @18%	24,721.67
A	Total landed Cost (A=A1 + A2)	162,064.28
B	Stock, Storage & Insurance i.e 3% of A	4,861.93
C	Sub Total (A+B)	166,926.21
D	Contingency @ 3% of C	5,007.79
E	Tools & Plants @ 2% of C (Except HT Stay Set / GI Pipe earthing)	2,989.85
F	Transportation @ 7.5% of C	12,519.47
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)	3,504.61
H	C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)	7,940.04
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)	-
J	Sum of (C to I)	198,887.96

Civil & Services

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	4	9,206.10
2	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.90	5,983.97
3	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.23	1,495.99
4	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	2.00	7,569.46
5	GIS Mapping, indexing/numbering of Poles	EA	836.00	1.00	836.00
6	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	2.00	566.68
K1	Total Civil & Services				25,658.20
K2	Applicable Taxes to make it Landed Cost @18%				4,618.48
K	Total landed Cost (K=K1+ K2)				30,276.67
L	Total (J+K)				229,164.63
N	Sub-Total (L+M)				229,164.63
O	CESS 1% of N				2,291.65
P	Gross Total Material +Services (N+O) for DP With AB Switch				231,456.28

No. of Cut Point with 180 Degree Angle (Ref. Drawing No.- PD-1346-TPCODL-COM-LINE-8032)		1		
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MATERIALS FOR 11 KV Cut Point with 180 Degree Angle

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 11 Mtr. Long for SP	EA	28,835.00	1	28,835.00
2	GI Channel, angle & flat of different size	KG	78.00	35.8	2,793.34
3	Danger Plate	EA	180.00	1	180.00
4	H.T. Stay clamp	EA	260.00	1	260.00
5	H.T. Stay set (Complete)	SET	1,434.00	1	1,434.00
6	H.T. Stay Insulator Type-C	EA	87.00	1	87.00
7	7/10 SWG Stay Wire	KG	77.00	15	1,155.00
8	GI barbed wire anticlimbing device	KG	74.00	3	222.00
9	11 KV pin insulator polymer	EA	140.00	3	420.00
10	NON METALLIC TIES-11KV 100 SQMM CVRD AAAC	EA	110.00	3	330.00
11	IPC for 100 sq.mm AAA conductor (For covered conductor)-11 kv	EA	550.00	6	3,300.00
12	Spike (GI) (2 Nos of spike per Set in each Pole)	SET	220.00	2	440.00
13	Dead end assembly with accessories for 100 Sq.mm. AAAC	EA	2,500.00	6	15,000.00
14	Disc insulator (B&S) 70 KN polymer	EA	150.00	6	900.00
15	Earthing of Support (Coil Type)	EA	164.00	1	164.00
16	GI Nut , Bolt & Washer of different sizes	KG	74.00	9.996	739.70

A1	Total Cost of materials	56,260.04
A2	Applicable Taxes to make it Landed Cost @18%	10,126.81
A	Total landed Cost (A=A1 + A2)	66,386.85
B	Stock, Storage & Insurance i.e 3% of A	1,991.61
C	Sub Total (A+B)	68,378.45
D	Contingency @ 3% of C	2,051.35
E	Tools & Plants @ 2% of C	1,296.20
F	Transportation @ 7.5% of C	5,128.38
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)	1,752.30
H	C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)	2,976.40
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)	-
J	Sum of (C to I)	81,583.09

Civil & Services

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.45	2,991.98
2	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.11	748.00
3	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	1	2,301.53
4	GIS Mapping, indexing/numbering of Poles	EA	836.00	1.00	836.00
5	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	1.00	283.34
K1	Total Civil & Services				7,160.84
K2	Applicable Taxes to make it Landed Cost @18%				1,288.95
K	Total landed Cost (K=K1+ K2)				8,449.79

L				Total (J+K)	90,032.89
N				Sub-Total (L+M)	90,032.89
O				CESS 1% of N	900.33
P				Gross Total Material +Services (N+O) for 11 KV Cut Point with 180 Degree Angle	90,933.22
No. of Cut Point with 90 Degree Angle (Ref. Drawing No.- PD-1346-TPCODL-COM-LINE-8031)					1
MATERIALS FOR 11 KV Cut Point with 90 Degree Angle					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 11 Mtr. Long for SP	EA	28,835.00	1	28,835.00
2	GI Channel, angle & flat of different size	KG	78.00	67.344	5,252.83
3	Danger Plate	EA	180.00	1	180.00
4	GI barbed wire anticlimbing device	KG	74.00	3	222.00
5	11 KV pin insulator polymer	EA	140.00	4	560.00
6	NON METALLIC TIES-11KV 100 SQMM CVRD AAAC	EA	110.00	4	440.00
7	IPC for 100 sq.mm AAA conductor (For covered conductor)-11 kV	EA	550.00	6	3,300.00
8	Spike (GI) (2 Nos of spike per Set in each Pole)	SET	220.00	2	440.00
9	Dead end assembly with accessories for 100 Sq.mm. AAAC	EA	2,500.00	6	15,000.00
10	Disc insulator (B&S) 70 KN polymer	EA	150.00	6	900.00
11	Earthing of Support (Coil Type)	EA	164.00	1	164.00
12	H.T. Stay clamp	EA	260.00	2	520.00
13	H.T. Stay set (Complete)	SET	1,434.00	2	2,868.00
14	H.T. Stay Insulator Type-C	EA	87.00	2	174.00
15	7/10 SWG Stay Wire	KG	77.00	30	2,310.00
16	GI Nut , Bolt & Washer of different sizes	KG	74.00	9.996	739.70
A1				Total Cost of materials	61,905.54
A2				Applicable Taxes to make it Landed Cost @18%	11,143.00
A				Total landed Cost (A=A1 + A2)	73,048.53
B				Stock, Storage & Insurance i.e 3% of A	2,191.46
C				Sub Total (A+B)	75,239.99
D				Contingency @ 3% of C	2,257.20
E				Tools & Plants @ 2% of C (Except HT Stay Set)	1,362.06
F				Transportation @ 7.5% of C	5,643.00
G				Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)	1,752.30
H				C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)	3,305.71
I				Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)	-
J				Sum of (C to I)	89,560.26
Civil & Services					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	2	4,603.05
2	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.5	2,991.98
3	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	0.1	748.00
4	GIS Mapping, indexing/numbering of Poles	EA	836.00	1.00	836.00
5	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	1.00	283.34
K1				Total Civil & Services	9,462.37
K2				Applicable Taxes to make it Landed Cost @18%	1,703.23
K				Total landed Cost (K=K1+ K2)	11,165.59
L				Total (J+K)	100,725.86
N				Sub-Total (L+M)	100,725.86
O				CESS 1% of N	1,007.26
P				Gross Total Material +Services (N+O) for 11 KV Cut Point with 90 Degree Angle	101,733.12
11 Kv Line Length In KM with 40 Mtr. Span (Ref. Drawing No.- PD-1346-TPCODL-COM-LINE-8030)					1
MATERIALS FOR 11 KV Pin Points With WPB					
Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 11 Mtr. Long for SP	EA	28,835.00	23	663,205.00
2	11 KV V cross Arm(GI)	EA	851.00	23	19,573.00
3	Top bracket 100x50X6 mm GI Channel(GI)	EA	81.00	23	1,863.00
4	Danger Plate	EA	180.00	23	4,140.00
5	Back Clamp for danger Plate and barbed wire	KG	78.00	35.42	2,762.76
6	GI barbed wire anticlimbing device	KG	74.00	69.00	5,106.00
7	11 KV pin insulator polymer	EA	140.00	69	9,660.00
8	NON METALLIC TIES-11KV 100 SQMM CVRD AAAC	EA	110.00	69	7,590.00
9	Spike (GI) (2 Nos of spike per Set in each Pole)	SET	220.00	46	10,120.00
10	Earthing of Support (Coil Type)	EA	164.00	23	3,772.00
11	GI Nut , Bolt & Washer of different sizes	KG	74.00	31.56	2,335.14
12	100 SQ.MM. AAAC XLPE Covered Conductor-11kV	M	131.00	3090.00	404,790.00
13	Midspan Joint for 100 sq.mm AAAC XLPE Covered Conductor-11 kV	EA	450.00	3	1,350.00
A1				Total Cost of materials	1,136,266.90

A2	Applicable Taxes to make it Landed Cost @18%				204,528.04
A	Total landed Cost (A=A1 + A2)				1,340,794.95
B	Stock, Storage & Insurance i.e 3% of A				40,223.85
C	Sub Total (A+B)				1,381,018.80
D	Contingency @ 3% of C				41,430.56
E	Tools & Plants @ 2% of C				27,620.38
F	Transportation @ 7.5% of C				103,576.41
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				40,302.97
H	C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				57,495.94
I	Erection Charges @ 20% of PSC pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
J	Sum of (C to I)				1,651,445.06
Civil & Services					
1	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	10.35	68,815.60
2	Couping of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	2.59	17,203.90
3	GIS Mapping, indexing/numbering of Poles	EA	836.00	23	19,228.00
4	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	23	6,516.82
5	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line	CKM	10,470.00	1	10,470.00
K1	Total Civil & Services				122,234.32
K2	Applicable Taxes to make it Landed Cost @18%				22,002.18
K	Total landed Cost (K=K1+ K2)				144,236.49
L	Total Material+Services (J+K)				1,795,681.55
N	Sub-Total (L+M)				1,795,681.55
O	CESS 1% of N				17,956.82
P	Gross Total Material +Services (N+O) for 11 KV Pin Points With WPB				1,813,638.37
Gross Total Summary					
1	Gross Total Material +Services (N+O) for DP Without AB Switch				174,602.31
2	Gross Total Material +Services (N+O) for DP With AB Switch				231,456.28
3	Gross Total Material +Services (N+O) for 11 KV Cut Point with 180 Degree Angle				90,933.22
4	Gross Total Material +Services (N+O) for 11 KV Cut Point with 90 Degree Angle				101,733.12
5	Gross Total Material +Services (N+O) for 11 KV Pin Points With WPB				1,813,638.37
Q	Gross Total Material +Services				2,412,363.29
R	Inspection Fee of Over Head Line (HT) - Rs. 375 up to 1 km.				375.00
T	Inspection Fee of Drawing Checking and Approval				750.00
U	Total Inspection Fees (R+S+T)				1,125.00
V	GST @ 18% on Total Inspection Fees (U)				202.50
W	Total Inspection Fees including GST (U+V)				1,327.50
X	Gross Total Material, Services and Inspection Fees (Q+W)				2,413,690.79

LT AB Cable Line Length with 33 Mtr. Span using - 4C×95 mm² (P)+1C×95 mm²(M)+1CX16 mm²(Street Light)- for LT Extension

MATERIALS FOR LT AB Cable Line

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	9 Mtr. long PSC Pole	EA	3,630.00	30	108,900.00
2	GI flat for danger plate and anticlimbing device	KG	78.00	53	4,141.80
3	LT Stay set Complete	SET	736.00	9	6,624.00
4	7/12 SWG GI stay wire, Grade -2	KG	79.00	108.0	8,532.00
5	LT stay Clamp	EA	350.00	9	3,150.00
6	LT Stay insulator	EA	19.00	9	171.00
7	LT Accessories with Eye hook and Clamp				
7.i.	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	39	9,360.00
7.ii.	EYE hook for XLPE Aerial bunched Cable	EA	75.00	18	1,350.00
7.iii.	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	18	3,906.00
7.iv.	Suspension Clamp with EYE hook for ABC	PAA	193.00	21	4,053.00
8	4C×95 mm ² (P)+1C×95 mm ² (M)+1CX16 mm ² (Street Light) (LT AB Cable)	M	422.00	1050.00	443,100.00
9	10 WAY LT SERVICE Distb.Box	EA	920.00	20	
10	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	EA	113.08	99	11,194.92
11	Insulated piercing connector.Type-B-main 25 to 150 sq.mm & Tap-6 to 35 sq.mm	EA	62.13	140	8,698.20
12	Insulated piercing connector.Type-C-main 16 to 95 sq.mm & Tap-1.5 to 16 sq.mm	EA	33.90	20	678.00
13	GI Pipe Earthing (each 5th pole to earth)	EA	1,300.00	6	7,800.00
14	Coil Earthing	EA	164.00	24	3,936.00
15	Danger plate (LT)	EA	180.00	30	5,400.00
16	GI barbed wire anticlimbing device	KG	74.00	90.00	6,660.00
17	GI Nut , Bolt & Washer of different sizes	KG	74.00	15.00	1,110.00
A1	Total Cost of materials				638,764.92
A2	Applicable Taxes to make it Landed Cost @18%				114,977.69
A	Total landed Cost (A=A1 + A2)				753,742.61
B	Stock, Storage & Insurance i.e 3% of A				22,612.28
C	Sub Total (A+B)				776,354.88
D	Contingency @ 3% of C				23,290.65
E	Tools & Plants @ 2% of C (Except LT Stay Set / GI Pipe earthing)				14,888.36
F	Transportation @ 7.5% of C				58,226.62
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				61,206.08
I	Erection Charges @ 20% of PSC pole- Not to be used for 33kv (With Applicable Taxes @ 18% to make it Landed Cost)				26,471.41
J	Sum of (C to I)				960,437.99

Civil & Services

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	9	20,713.73
2	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	11.25	74,799.56
3	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	6	22,708.38
4	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	30	8,500.20
5	GIS Mapping, indexing/numbering of Poles	EA	836.00	30	25,080.00
6	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line	CKM	10,470.00	1	10,470.00
K1	Total Civil & Services				162,271.87
K2	Applicable Taxes to make it Landed Cost @18%				29,208.94
K	Total landed Cost (K=K1+ K2)				191,480.80
L	Total (J+K)				1,151,918.79
N	Sub-Total (L+M)				1,151,918.79
O	CESS 1% of N				11,519.19
P	Gross Total Material +Services (N+O) for LT AB Cable Line				1,163,437.98
Q	Inspection Fee of Over Head Line (LV)-Rs. 375 upto 1 KM.				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				1,125.00
U	GST @ 18% on Total Inspection Fees (T)				202.50
V	Total Inspection Fees including GST (T+U)				1,327.50
W	Gross Total Material, Services and Inspection Fees (P+V)				1,164,765.48

LT AB Cable Line Length with 33 Mtr. Span using - 4C×70 mm² (P)+1C×70 mm²(M)+1CX16 mm²(Street Light)- for LT Extension
MATERIALS FOR LT AB Cable Line

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	9 Mtr. long PSC Pole	EA	3,630.00	30	108,900.00
2	GI flat for danger plate and anticlimbing device	KG	78.00	53	4,141.80
3	LT Stay set Complete	SET	736.00	9	6,624.00
4	7/12 SWG GI stay wire, Grade -2	KG	79.00	108.0	8,532.00
5	LT stay Clamp	EA	350.00	9	3,150.00
6	LT Stay insulator	EA	19.00	9	171.00
7	LT Accessories with Eye hook and Clamp				
7.i.	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	39	9,360.00
7.ii.	EYE hook for XLPE Aerial bunched Cable	EA	75.00	18	1,350.00
7.iii.	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	18	3,906.00
7.iv.	Suspension Clamp with EYE hook for ABC	PAA	193.00	21	4,053.00
8	4C×70 mm ² (P)+1C×70 mm ² (M)+1CX16 mm ² (Street Light) (LT AB Cable)	M	311.00	1050.00	326,550.00
9	10 WAY LT SERVICE Distb.Box	EA	920.00	25	23,000.00
10	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	EA	113.08	126	14,248.08
11	Insulated piercing connector.Type-B-main 25 to 150 sq.mm & Tap-6 to 35 sq.mm	EA	62.13	140	8,698.20
12	Insulated piercing connector.Type-C-main 16 to 95 sq.mm & Tap-1.5 to 16 sq.mm	EA	33.90	20	678.00
13	GI Pipe Earthing (each 5th pole to earth)	EA	1,300.00	6	7,800.00
14	Coil Earthing	EA	164.00	24	3,936.00
15	Danger plate (LT)	EA	180.00	30	5,400.00
16	GI barbed wire anticlimbing device	KG	74.00	90.00	6,660.00
17	GI Nut , Bolt & Washer of different sizes	KG	74.00	15.00	1,110.00
A1	Total Cost of materials				548,268.08
A2	Applicable Taxes to make it Landed Cost @18%				98,688.25
A	Total landed Cost (A=A1 + A2)				646,956.33
B	Stock, Storage & Insurance i.e 3% of A				19,408.69
C	Sub Total (A+B)				666,365.02
D	Contingency @ 3% of C				19,990.95
E	Tools & Plants @ 2% of C (Except LT Stay Set / GI Pipe earthing)				12,688.56
F	Transportation @ 7.5% of C				49,977.38
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable Taxes @ 18% to make it Landed Cost)				50,207.09
I	Erection Charges @ 20% of PSC pole- Not to be used for 33kv (With Applicable Taxes @ 18% to make it Landed Cost)				26,471.41
J	Sum of (C to I)				825,700.41

Civil & Services

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	9	20,713.73
2	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	11.25	74,799.56
3	Construction of Earthing chamber including earthing pipe and civil works	EA	3,784.73	6	22,708.38
4	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	30	8,500.20
5	GIS Mapping, indexing/numbering of Poles	EA	836.00	30	25,080.00
6	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line	CKM	10,470.00	1	10,470.00
K1	Total Civil & Services				162,271.87
K2	Applicable Taxes to make it Landed Cost @18%				29,208.94
K	Total landed Cost (K=K1+ K2)				191,480.80
L	Total (J+K)				1,017,181.22
N	Sub-Total (L+M)				1,017,181.22
O	CESS 1% of N				10,171.81
P	Gross Total Material +Services (N+O) for LT AB Cable Line				1,027,353.03
Q	Inspection Fee of Over Head Line (LV)-Rs. 375 upto 1 KM.				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				1,125.00
U	GST @ 18% on Total Inspection Fees (T)				202.50
V	Total Inspection Fees including GST (T+U)				1,327.50
W	Gross Total Material, Services and Inspection Fees (P+V)				1,028,680.53

LT AB Cable Line Length with - 4C×70 mm² (P)+1C×70 mm²(M)+1CX16 mm²(Street Light)- for LT 3Ph Conversion

MATERIALS FOR LT AB Cable Line

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	9 Mtr. long PSC Pole	EA	3,630.00	5	18,150.00
2	GI flat for danger plate and anticlimbing device	KG	78.00	9	690.30
3	LT Stay set Complete	SET	736.00	4	2,944.00
4	7/12 SWG GI stay wire, Grade -2	KG	79.00	48.0	3,792.00
5	LT stay Clamp	EA	350.00	4	1,400.00
6	LT Stay insulator	EA	19.00	4	76.00
7	LT Accessories with Eye hook and Clamp				
7.i.	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	EA	240.00	39	9,360.00
7.ii.	EYE hook for XLPE Aerial bunched Cable	EA	75.00	18	1,350.00
7.iii.	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	EA	217.00	18	3,906.00
7.iv.	Suspension Clamp with EYE hook for ABC	PAA	193.00	21	4,053.00
8	4C×70 mm ² (P)+1C×70 mm ² (M)+1CX16 mm ² (Street Light) (LT AB Cable)	M	311.00	1050.00	326,550.00
9	10 WAY LT SERVICE Distb.Box	EA	920.00	20	18,400.00
10	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	EA	113.08	106	11,986.48
11	Insulated piercing connector.Type-B-main 25 to 150 sq.mm & Tap-6 to 35 sq.mm	EA	62.13	140	8,698.20
12	Insulated piercing connector.Type-C-main 16 to 95 sq.mm & Tap-1.5 to 16 sq.mm	EA	33.90	24	813.60
13	GI Pipe Earthing (each 5th pole to earth)	EA	1,300.00	3	3,900.00
14	Coil Earthing	EA	164.00	2	328.00
15	Danger plate (LT)	EA	180.00	5	900.00
16	GI barbed wire anticlimbing device	KG	74.00	15.00	1,110.00
17	GI Nut , Bolt & Washer of different sizes	KG	74.00	2.50	185.00
A1	Total Cost of materials				418,592.58
A2	Applicable Taxes to make it Landed Cost @18%				75,346.66
A	Total landed Cost (A=A1 + A2)				493,939.24
B	Stock, Storage & Insurance i.e 3% of A				14,818.18
C	Sub Total (A+B)				508,757.42
D	Contingency @ 3% of C				15,262.72
E	Tools & Plants @ 2% of C (Except LT Stay Set / GI Pipe earthing)				9,880.73
F	Transportation @ 7.5% of C				38,156.81
G	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole (With Applicable Taxes @ 18% to make it Landed Cost)				-
H	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole/GI Pipe earthing) (With Applicable				47,197.70
I	Erection Charges @ 20% of PSC pole- Not to be used for 33kv (With Applicable Taxes @ 18% to make it Landed Cost)				4,411.90
J	Sum of (C to I)				623,667.28

Civil & Services

Sl. No.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	Fixing of complete Stay Set with all accessories and civil works	EA	2,301.53	4	9,206.10
2	Concreting of Pole @ 1:1.5:3(M-20 Grade)	M3	6,648.85	1.88	12,466.59
3	Construction of Earthing chamber incuding earthing pipe and civil works	EA	3,784.73	3	11,354.19
4	Painting of Pole in Black & Yellow strips/Zebra	EA	283.34	5	1,416.70
5	GIS Mapping, indexing/numbering of Poles	EA	836.00	5	4,180.00
6	GIS coordinate mapping, drawing preparation and submission of the same for New/Existing line	CKM	10,470.00	1	10,470.00
K1	Total Civil & Services				49,093.58
K2	Applicable Taxes to make it Landed Cost @18%				8,836.85
K	Total landed Cost (K=K1+ K2)				57,930.43
L	Total (J+K)				681,597.71
N	Sub-Total (L+M)				681,597.71
O	CESS 1% of N				6,815.98
P	Gross Total Material +Services (N+O) for LT AB Cable Line				688,413.69
Q	Inspection Fee of Over Head Line (LV)-Rs. 375 upto 1 KM.				375.00
S	Inspection Fee of Drawing Checking and Approval				750.00
T	Total Inspection Fees (Q+R+S)				1,125.00
U	GST @ 18% on Total Inspection Fees (T)				202.50
V	Total Inspection Fees including GST (T+U)				1,327.50
W	Gross Total Material, Services and Inspection Fees (P+V)				689,741.19