

PRICE BID FOR THE WORK UNDER SL. NO :- 25 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO TALABANIA POLICE STATION BUILDING IN THE DISTRICT OF PURI.

BID REF NO :- 04/PM/ELECT/OPHWC/2024-25

<u>SCHEDULE OF WORKS</u>					
Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	SUPPLY AND LAYING OF 0.08 KM 11 KV 3CX95 SQ. MM XLPE UG CABLE WITH 11 KV RMU				
	Supply of materials for 11 Kv, 3 Core, 95 sq. mm ,XLPE insulation armoured UG cable with accessories.				
a	Length of 11kV 3C, 95sqmm cable (open trench)	Mtr.	80		
1.1	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)	Mtr.	160.00	742.30	1,18,768.00
1.2	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)	Set	4	14,233.70	56,934.80
1.3	Supply of HDPE PE 80-PN8 pipe of 110mm diameter (for 95sqmm HT cable laying)	Mtr.	128	357.60	45,772.80
	Sub Total (Supply Portion) (in Rs.)				2,21,475.60
Erection Portion					
1	Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method				
1.1	Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.	Mtr.	160.00	94.50	15,120.00
1.2	Erection of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 400sqmm, aluminium UG cable kits for 3core (set)	Set	4	1,900.80	7,603.20
1.3	Laying of 160mm dia PE 80-PN8, HDPE pipe inside open trench.	Mtr.	128.00	300.00	38,400.00
	Sub Total (Erection Portion) (in Rs.)				61,123.20
Civil Portion					
2	Civil works with supply of all materials like cement, MS tor rod, brick, coarse & fine aggregates and labour, T&P, etc for UG Cable Trench				
1.1	Earth work excavation of soil (1mtr. width X 1mtr. depth) Route Length	Mtr	64		
1.1.a	Earth work excavation of soil	Cum	44.8	700.00	31,360.00
1.1.b	Earth work excavation of hard rock	Cum	19.2	1,720.00	33,024.00
1.2	Back filling with excavated soil outside and above the trench	Cum	64	202.00	12,928.00

1.3	Damage of asphalt/tar road and other utilities and reconstructing to bring to its original shape after laying of cable in open trench (1mtr. width)	Mtr	64	2,643.67	1,69,194.92
2	Civil works for Prefabricated RCC foundation with supply of all materials				
3	Supply and erection of GI Pipe of dia. 150mm, Class-B (8Mtr.)	Mtr	32	1,463.40	46,828.80
4	Supply and Erection of Cable Route Marker along the cable route at an interval of 30mtrs with civil works	Nos.	3	1,012.00	3,036.00
	Sub Total (Civil Portion) (in Rs.)				2,96,371.72
A	Sub Total (Supply Portion)				2,21,475.60
B	Stock, Storage & Insurance @ 3 % of A				6,644.27
C	Sub Total (A+B)				2,28,119.87
D	Contingency @ 3 % of C				6,843.60
E	Tools & Plants Charges @ 2% of C (considered for earthing items)				
F	Transportation @ 7.5% of C				17,108.99
G	Erection Charges @ 10% of earthing items				
H	Total (C+D+E+F+G)				2,52,072.45
I	Sub Total (Erection Portion + Civil Portion)				3,57,494.92
J	Total Cost (H+I)				6,09,567.37
I	INSTALLATION OF 1 NO. 11 KV DP WITHOUT AB SWITCH .				
A	DP WITHOUT AB SWITCH				
1	WPB (GI) Pole 160x152 (13 Mtr. Long, 30.44KG/Mtr.)	No	2	34,322.00	68644.00
2	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 2.3 mtr., 2 no's channel required =(2x9.56x2.3)	Kg	43.976	76.00	3342.18
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	Kg	3.9648	97.50	386.57
4	Double pole belting Channel 75x40x4.8 mm ,7.14 Kg/mtr., each channel length 3.0 Mtr.,4 nos channel required.	Kg	47.4096	76.00	3603.13
5	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 2.671 mtr., 4 nos angle required = (4.5x2.671x4)	Kg	48.078	76.00	3653.93
6	Danger Plate, 2 no's.	No.	2	104.00	208.00
7	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 2 no's = (2x0.59x0.510)	Kg	0.6018	97.50	58.68
8	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	Pair	2	162.50	325.00
9	H.T. Stay set (Complete)	Set	2	1,365.00	2730.00
10	H.T. Stay Insulator Type-C	No.	2	65.00	130.00
11	7/10 SWG Stay Wire 15kg /stay	K.g.	30	97.50	2925.00
12	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	1	1,365.00	1365.00
13	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 5x2.36	Kg	11.8	97.50	1150.50
14	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	Kg	6	104.00	624.00
15	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	Kg	2.4072	97.50	234.70
16	11 KV pin insulator polymer	No.	3	260.00	780.00
17	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
18	Disc insulator (B&S) 70 KN polymer	No.	6	1,495.00	8970.00
19	PG Clamp for 55 sq. mm AAA Conductor	No.	6	624.00	3744.00
20	GI Nut , Bolt & Washer of different sizes	Kg	12.261	101.40	1243.27

21	Black Paint	Ltr	1	286.00	286.00
22	Yellow Colour Paint for Background	Ltr	2	216.00	432.00
A	A. Sub total				1,07,565.94
B	B. Stock, Storage & Insurance @ 3% of A				3,226.98
C	Sub Total (C=A+B)				1,10,792.92
D	T&P @ 2% of C				2,433.01
E	Contingency @ 3% of C				3,323.79
F	Transportation @ 7.5% of C				8,309.47
	Erection Charges @ 5% on poles				3,535.17
G	Erection Charges @ 10%				3,822.06
H	Total				1,32,216.42
23	Fixing of 11 KV line Complete stay set includes 1) Turn Buckle Assembly 2) Stay Rod & Stay plate 3) Stay Insulator 4) Stay Wire. 5) Stay clamps with Nuts & bolts, including excvaton, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material (Excavation of earth will be done of size 500X500X1500 mm.)	No	2	2250.00	4500.00
24	Concreting Ratio 1:1:5:3(500 mmx500mmx2200 mm)=0.55 Cu. Mtr.	Cum	0.9	6500.00	5850.00
25	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6500.00	1462.50
26	Construction of earthing chamber including installation of earthing pipe.Making earthing chamber including excavation, soil treatment with betonide powder, calculation of earth resistance,including installation of 3 Mtr. GI Pipe 40/50 mm including welding of GI flat around pipe.	No	1	3700.00	3,700.00
	Total Material + Services Cost (J+K)				1,47,728.92
PART-II	Installation of 63 KVA 11/0.4KV sub station - 1 No.				
1	11 Mtr Long (160x152)mm WPB GI Pole(30.44 Kg/mtr)-DP	No	2	29661.00	59322.00
2	9 Mtr. long 300 Kg. PSC Pole (For Raising of LT ABC)	No	1	3900.00	3900.00
3	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	2	260.00	520.00
4	EYE hook for XLPE Aerial bunched Cable	No	2	78.00	156.00
5	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	No	2	84.50	169.00
6	Top Pressure Channel 100x50x6mm channel each 3000 mm long,2 Nos(9.56 K.g/mtr)	K.g	57.36	76.00	4359.36
7	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
8	MU Channel GI 75x40x4.8 mm (3000 mm long)(7.14Kg./Mtr., 2 No's.)	Kg	42.84	76.00	3255.84
9	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3,255.84
10	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	76.00	508.44
11	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)each channel length 0.8 Mtr.	Kg	5.711	76.00	434.04
12	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
13	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	76.00	879.32
14	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04

15	Transformer Base GI Channel 100 X 50 X 6 MM (3000 mm long) (9.56Kg./Mtr, 2 No's.) (Each 2x3.000x9.56= 57.36 Kg)	Kg	57.36	76.00	4359.36
16	Transformer Base Support GI Channel 100 X 50 X 6 MM (515 mm long) (9.56Kg./Mtr, 2 No's) (Each 2x0.515x9.56= 9.85Kg)	Kg	9.85	76.00	748.60
17	Transformer Belting Angle 50 X 50 X 6MM GI (3000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x3.0x4.5 Kg)	Kg	27	76.00	2052.00
18	Transformer Belting Support Angle 50 X 50 X 6MM GI (580 mm long)(4.5Kg./Mtr,2 No's) (Each 2x0.580x4.5= Kg)	Kg	5.22	76.00	396.72
19	LTDB Mounting Angle 50 X 50 X 6MM GI (1000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x1x4.5 Kg)	Kg	9	76.00	684.00
20	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For L.A and 2.5 Mtr for raising, 11 Mtr. For AB Switch ,2.8 Mtr. for HG Fuse, 5x2 Mtr. For DTR neutral,(13-4.5)mtr. For DTR Body, 0.500 Mtr. For LTDB & AB switch operating handle, 3 Mtr. for fencing.)	Kg	154.816	97.50	15094.56
21	LT Distribution Box with MCCB, Aluminium Busbar of Single Bay with kit kat fuse for 63 KVA S/S	No	1	23818.60	23818.60
22	55mm2 All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Mtr	50	55.24	2762.00
23	4 Cx 95 mm2 LT XLPE Cable(Un-Armoured) - FOR 250 KVA Trf.	Mtr	15	479.61	7194.15
24	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
25	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
26	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
27	Disc insulator (B&S)70 KN polymer	No	3	1495.00	4485.00
28	H W fitting (B&S)70KN(3bolted)	Pair	3	455.00	1365.00
29	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
30	11 KV Pin Insulator polymer type	No	3	260.00	780.00
31	HT Stay Set (Complete)	Set	2	1365.00	2730.00
32	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
33	HT Stay Insulator	No.	2	65.00	130.00
34	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
35	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
36	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
37	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
38	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	2.4072	97.50	234.70
39	Danger plate	Kg	2	104.00	208.00
40	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.6018	97.50	58.68
41	Name Plate	No	1	104.00	104.00
42	Yellow colour paint for Background	Ltr	2	216.00	432.00
43	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				2,00,266.65
B	B. Stock, Storage & Insurance @ 3% of A				6,008.00
C	Sub Total (C=A+B)				2,06,274.65
D	T&P @ 2% of C				3,654.59
E	Contingency @ 3% of C				6,188.24
F	Transportation @ 7.5% of C				15,470.60
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				3,055.08
H	Erection Charges @ 20% on PSC Poles				803.40
I	Erection Charges @ 10% for other materials				11,761.06
J	Total				2,47,207.62

44	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
45	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1469.00
46	Fixing of stay set with 0.5 cum cement concret foundation 1:3:6 size (900x 600x900 mm) using 40 mm BHG metal with all labour and material except stay wire, stay set,stay insulator.	No	2	2250.00	4,500.00
47	Construction of earthing chamber including installation of earthing pipe.Making earthing chamber including excavation, soil treatment with betonide powder, calculation of earth resistance,including installation of 3 Mtr. GI Pipe 40/50 mm including welding of GI flat around pipe.	No	7	3700.00	25,900.00
48	Laying of 4Cx95 sq. mm LT XLPE cable	Mtr	15	46.80	702.00
49	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
50	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.(For PSC Pole)	Cum	0.375	6500.00	2437.50
					94,858.50
				Sub total Rs	3,42,066.12
	Dismantling charges for Line & S/S(as per Estimate)	No	1	29867.19	29867.19
	Total Rs.				11,29,229.60
	Cess @1%				11,292.30
	Total Estimated Cost				11,40,521.90
	Total Estimated Cost in Figures				11,40,522.00
EXCESS	<input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick)				_____ %
	Quoted Amount in Figure				
	Quoted Amount in word				

N:B- The Estimated cost is exclusive of GST.

Signature of Tenderer with seal

Sd/-
Asst. Project Manager (Elect)

Sd/-
DM (Elect) I/C

Sd/-
Project Manager(Elect.)