

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
JANAPATH, BHOINAGAR, BHUBANESWAR - 22
[Electrical Division]
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PRICE BID FOR THE WORK UNDER SL. NO :- 04 AS PER IFB

NAME OF THE WORK :- SHIFTING AND RECONSTRUCTION OF LINE AT CONSTRUCTION SITE OF AMA BUS STAND AT LUNAHAR, SALIPUR IN THE DISTRICT OF CUTTACK.

BID REF NO :- 68/PM/ELECT/OPHWC/2024-25

**NAME &
ADDRESS OF
THE FIRM**

PART-A-Construction of 11 kv line using 3Cx400 sq. mm UG Cable along with 11 KV RMU.

SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
Supply Portion					
1	Supply of materials for 11kV, 3Core, 400sqmm, XLPE insulation armoured UG cable with accessories				
a	Length of 11kV 3C, 400sqmm cable (HDD)	Mtr.	250		
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)	Mtr.	500.00	1,950.00	9,75,000.00
1.2	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 400 sqmm, HT UG cable for 3Core (Set)	Set	4	18,075.20	72,300.80
3	Earthing				
3.1	Earthing Conductor: 50X6 mm (2.4kg./mtr.) GI Flat for equipment, structure etc.)	kg	7.20	97.50	702.00
3.2	Pipe Earthing 40mm. GI Pipe	Nos.	2	1,365.00	2,730.00
	Sub Total (Supply Portion) (in Rs.)				10,50,732.80
Erection Portion					
1	Laying, Commissioning, Testing of 11kV, 3core, 400sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method				
1.1	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
1.2	Supply, Installation, Laying, Commissioning, Testing of 11kV, 3core, 2 Run, 400sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable in HDD method with HDPE pipe (160mm dia, PN8 PE80) including supply of HDPE Pipe.	Mtr.	500	2,800.00	14,00,000.00
	Sub Total (Erection Portion) (in Rs.)				14,07,603.20
Civil Portion					

1	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				
2	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe .	Set	2	3,700.00	7,400.00
3	Supply of GI pipe dia 150 mm ,class-B(8 Mtr.)	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.	8	1,012.00	8,096.00
Sub Total (Civil Portion) (in Rs.)					62,324.80
A	Sub Total (Supply Portion)				10,50,732.80
B	Stock, Storage & Insurance @ 3 % of A				31,521.98
C	Sub Total (A+B)				10,82,254.78
D	Contingency @ 3 % of C				32,467.64
E	Tools & Plants Charges @ 2% of C (considered for earthing items)				14.46
F	Transportation @ 7.5% of C				81,169.11
G	Erection Charges @ 10% of earthing items				72.31
H	Total (C+D+E+F+G)				11,95,978.30
I	Sub Total (Erection Portion + Civil Portion)				14,69,928.00
J	Total Cost (H+I)				26,65,906.30
I	11 KV LINE				
A	DP WITHOUT AB SWITCH				
1	WPB (GI) Pole 160x152 (11 Mtr. Long, 30.44KG/Mtr.)	No	2	29661.00	59322.00
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 75X40X 4.8mm., 7.14KG/Mtr., each channel length 1.66 Mtr., 4 no's channel required =(7.14x1.66x4)	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	1365.00	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	1365.00	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	1495.00	8970.00
19	PG Clamp for 80 sq. mm AAA Conductor	NO.	6	689.00	4134.00

20	GI Nut , Bolt & Washer of different sizes (12.261 Kg each DP without AB Switch)	K.g.	12.261	101.40	1243.27
21	Black colour paint for numbering	Ltr	1	286.00	286.00
22	Yellow Colour Paint for Background	Ltr	2	216.00	432.00
A	A. Sub total				98,633.94
B	B. Stock, Storage & Insurance @ 3% of A				2,959.02
C	Sub Total (C=A+B)				1,01,592.96
D	T&P @ 2% of C				1,877.87
E	Contingency @ 3% of C				3,047.79
F	Transportation @ 7.5% of C				7,619.47
G	Erection Charges @ 20 % on PSC poles				
H	Erection Charges @ 5 % on Joist/WPB poles				3,055.08
I	Erection Charges @ 10%				3,279.21
J	Total				1,20,472.38
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 mmx500mmx1800mm)=0.45 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)					1,35,984.88
B	11 KV DP WITH AB SWITCH				
1	WPB(GI) 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No	2	29661.00	59322.00
2	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 3 mtr., 2 no's channel required =(2x9.56x3)	KG	57.36	76	4359.36
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	KG	3.965	97.5	386.59
4	AB switch Mounting Channel 75X40X4.8mm, 7.14KG/Mtr, each channel length 3 Mtr., 2 no's channel required =(7.14x3x2)	KG	42.84	76	3255.84
5	AB Switch Side Support Channel 100X50X6mm,9.56 KG/Mtr., each channel length 0.35 mtr., 4 no's channel required =(9.56x4x0.35)	KG	6.692	76	508.59
6	Channel Support for down Pipe 75X40X 4.8mm., 7.14KG/Mtr., each channel length 0.8 Mtr., 1 no's channel required =(7.14x0.8x1)	KG	5.712	76	434.11
7	Double Pole Bracing Channel 75X40X 4.8mm., 7.14KG/Mtr., each channel length 3 Mtr., 2 no's channel required =(7.14x3x2)	KG	85.68	76	6511.68
8	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr., 2 nos angle required = (4.5x3.512x2)	KG	63.216	76	4804.42
9	Danger Plate, 2 no's.	No.	2	104.00	208.00

10	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 2 no's = (2x0.59x0.510)	K.g.	0.6018	97.50	58.68
11	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
12	H.T. Stay set (Complete)	Set	2	1365.00	2730.00
13	H.T. Stay Insulator Type-C	No.	2	65.00	130.00
14	7/10 SWG Stay Wire 15kg /stay	K.g.	30	97.50	2925.00
15	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	2	1365.00	2730.00
16	50x6mm GI Flat for earthing, 2.36kg/mtr., (12.5 Mtr. For L.A, 3 Mtr for AB Switch Body, 2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 20.5x2.36	KG	48.38	97.50	4717.05
17	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	Kg	6	104.00	624.00
18	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	KG	2.407	97.50	234.68
19	Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	3	4615.00	13845.00
20	AB Switch (11KV,400A.3pole,50Hz)	Set	1	15405.00	15405.00
21	11 KV pin insulator polymer	No.	3	260	780.00
22	H W fitting(B&S) 70KN, 3Bolt	No.	6	455	2730.00
23	Disc insulator (B&S) 70 KN polymer	No.	6	1495	8970.00
24	PG Clamp for 80 sq. mm AAA Conductor	NO.	6	689.00	4134.00
25	GI Nut , Bolt & Washer of different sizes (13.718 Kg each DP with AB Switch)	K.g.	13.718	101.40	1391.01
26	Black colour paint for numbering	Ltr	1	286.00	286.00
27	Yellow Colour Paint for Background	Ltr	2	216.00	432.00
A	A. Sub total				1,42,238.00
B	B. Stock, Storage & Insurance @ 3% of A				4,267.14
C	Sub Total (C=A+B)				1,46,505.14
D	T&P @ 2% of C				2,748.00
E	Contingency @ 3% of C				4,395.15
F	Transportation @ 7.5% of C				10,987.89
G	rection Charges @ 5% on pole				3,055.08
H	Erection Charges @ 10%				7,629.83
I	Total				1,75,321.09
28	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 excvation, 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.)	EA	2	2250.00	4500.00
29	Concreting Ratio 1:1:5:3(500 mmx500mmx1800mm)=0.45 Cu. Mtr.	Cu.m tr	0.9	6500.00	5850.00
30	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu.m tr	0.225	6500.00	1462.50
31	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.	2	3700.00	7400.00
Total Material + Services Cost					1,94,533.59
C	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB (GI) Pole 160x152 (11 Mtr. Long, 30.44KG/Mtr.)	No	1	29661.00	29661.00

2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	45.888	76.00	3487.49
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	97.50	1030.85
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	11.7014	76.00	889.31
5	Danger Plate, 1 no's.	No.	1	104	104.00
6	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	0.3009	97.5	29.34
7	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	3	104.00	312.00
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	1.2036	97.50	117.35
9	11 KV pin insulator polymer	Set	4	260.00	1040.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
12	Earthing of Support (Coil Type)	EA	1	215.80	215.80
13	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	0.262	97.50	25.55
14	PG Clamp for 80 sq. mm AAA Conductor	NO.	6	689.00	4134.00
15	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
16	HT Stay Set (Complete)	Set	2	1365.00	2730.00
17	HT Stay Insulator	No.	2	65.00	130.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	101.40	753.71
20	Black Paint	EA	0.5	286.00	143.00
21	Yellow Colour Paint for Background	Kg	2	216.00	432.00
A	A. Sub total				60,185.38
B	B. Stock, Storage & Insurance @ 3% of A				1,805.56
C	Sub Total (C=A+B)				61,990.94
D	T&P @ 2% of C				1,113.95
E	Contingency @ 3% of C				1,859.73
F	Transportation @ 7.5% of C				4,649.32
				Erection Charges @ 5% on poles	1,527.54
G	Erection Charges @ 10%				2,514.68
H	Total				73,656.16
22	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
23	Concreting ratio 1:1.5:3 (500mmX500mmX2200mm) = 0.55Cu.mtr	Cu.mtr	0.45	6500.00	2925.00
24	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cu.mtr	0.1125	6500.00	731.25
	Total Material + Services Cost				81,812.41
D	11 KV PIN POINTS WITH WPB				
1	80 SQ. MM AAAC	Km	0.1545	55900.00	8636.55

A	A. Sub total				8,636.55
B	B. Stock, Storage & Insurance @ 3% of A				259.10
C	Sub Total (C=A+B)				8,895.65
D	T&P @ 2% of C				177.91
E	Contingency @ 3% of C				266.87
F	Transportation @ 7.5% of C				667.17
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				889.56
H	Total				10,897.17
	Dismantling charges				
1	Dismantling of 9 Mtr. /8 Mtr. PSC Pole	No	4	920.61	3,682.44
2	Dismantling of 34/55 sq. mm AAAC	Mtr.	450	6.44	2,899.80
					6,582.24
	Total Rs.				30,95,716.60
	Cess @ 1%				30,957.17
	Total Estimated Cost				31,26,673.76
	Total Estimated Cost in Figures				31,26,674.00
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/-
D.M (Elect)

Sd/-
Project Manager (Elect)