

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
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[Electrical Division]
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PRICE BID FOR THE WORK UNDER SL. NO :- 05 AS PER IFB

NAME OF THE WORK :- SHIFTING AND RECONSTRUCTION OF 11 KV AND 33 KV LINE AT THE CONSTRUCTION SITE OF PATAMUNDAI BUS STAND IN THE DISTRICT OF KENDRAPADA.

BID REF NO :- 22/PM/ELECT/OPHWC/2024-25

NAME & ADDRESS OF THE FIRM	
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SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	CONSTRUCTION OF 33 KV LINE OF LENGTH 0.16 KM .				
A	33 KV DP WITH ISOLATOR				
1	WPB (GI) Pole 160x152 (13Mtr. Long, 30.44KG/Mtr.)	No.	2	34322.00	68644.00
2	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 3.25 mtr., 2 no's channel required =(2x9.56x3.25)	Kg	62.14	76.00	4722.64
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	Kg	3.965	97.50	386.59
4	Double Pole Belting Channel 75X40X 4.8mm., 7.14KG/Mtr., each channel length 1.96 Mtr., 5 no's channel required =(5x7.14x1.96)	Set	69.972	76.00	5317.87
5	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.432 mtr., 4 nos angle required = (4*4.5*3.432)	No.	61.776	76	4694.98
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)	No	0.602	97.50	58.70
8	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.511 Mtr. Length, 2 no's qty. required (1 Pair)	No	2	162.50	325.00
9	H.T. Stay set (Complete)	Pair	2	1365.00	2730.00
10	H.T. Stay Insulator Type-C (2 No's.)	Set	4	65.00	260.00
11	7/8 SWG Stay Wire 15kg /stay	No.	30	97.50	2925.00
12	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	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	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	33KV pin insulator polymer	Set	3	624.00	1872.00

17	H W fitting(B&S) 90KN,4 Bolt	No.	6	650.00	3900.00
18	Disc insulator (B&S) 90 KN polymer	No.	6	1495.00	8970.00
19	PG Clamp for 100 sq. mm AAA Conductor	EA	6	754.00	4524.00
20	GI Nut , Bolt & Washer of different sizes (12.261 Kg each DP without Isolator)	Kg	12.261	101.40	1243.27
21	Black Paint	Pair	1	286.00	286.00
22	Yellow Colour Paint for Background	Set	2	216.00	432.00
A	A. Sub total				1,14,874.24
B	B. Stock, Storage & Insurance @ 3% of A				3,446.23
C	Sub Total (C=A+B)				1,18,320.47
D	T&P @ 2% of C				2,209.75
E	Contingency @ 3% of C				3,549.61
F	Transportation @ 7.5% of C				8,874.03
G	Erection Charges @ 5% on poles				3,535.17
H	Erection Charges @ 10%				3,978.40
I	Total				1,40,467.43
23	Fixing of 33KV 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
24	Concreting ratio 1:1.5:3 (500mmX500mmX2200mm) = 0.55Cu.mtr	Cu.mtr	1.1	6500.00	7150.00
25	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cu.mtr	0.225	6500.00	1462.50
26	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 .	No.	1	3700.00	3700.00
Total Material + Services Cost					1,57,279.93
B	33 KV PIN POINT				
1	WPB (GI) Pole 160x152 (13Mtr. Long, 30.44KG/Mtr.)	No	2	34322.00	68644.00
2	33 KV V cross Arm (GI) 22Kg each	No.	2	2340	4680.00
3	Top bracket 100x50x6mm GI channel (2kg each)	kG	2	195	390.00
4	Danger Plate, 1 no's.	No.	2	104	208.00
5	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	0.6	97.5	58.50
6	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	6	104.00	624.00
7	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	2.41	97.50	234.98

8	33KV pin insulator polymer	No.	6	624.00	3744.00
9	Earthing of Support (Coil Type)	No.	2	215.80	431.60
10	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	K.g.	0.524	97.50	51.09
11	GI Nut , Bolt & Washer of different sizes (1.45 Kg/ Pin Point)	K.g.	2.9	101.40	294.06
12	100 sq.mm AAA conductor	Mtr.	494.4	71.50	35349.60
13	Black Paint	Ltr	2	286.00	572.00
14	Yellow Colour Paint for Background	Ltr	4	216.00	864.00
A	A. Sub total				1,16,145.83
B	B. Stock, Storage & Insurance @ 3% of A				3,484.37
C	Sub Total (C=A+B)				1,19,630.20
D	T&P @ 2% of C				2,392.60
E	Contingency @ 3% of C				3,588.91
F	Transportation @ 7.5% of C				8,972.26
G	Erection Charges @ 5% on poles				3,535.17
H	Erection Charges @ 10%				4,892.68
I	Total				1,43,011.82
15	Concreting ratio 1:1.5:3 (500mmX500mmX2200mm) = 0.55Cu.mtr	Cu.mtr	1.1	6500.00	7150.00
16	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cu.mtr	0.225	6500.00	1462.50
	Total Material + Services Cost				1,51,624.32
II	CONSTRUCTION OF 11 KV LINE .				
A	11 KV CUT POINT WITH 180 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	22.95	76.00	1744.20
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.3	97.50	516.75
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	5.8	76.00	440.80
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	0.3	97.5	29.25
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	1.2	97.50	117.00
9	11 KV pin insulator polymer	Set	3	260.00	780.00
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	0.26	97.50	25.35
14	PG Clamp for 55 sq. mm AAA Conductor	EA	6	624.00	3744.00
15	GI Nut , Bolt & Washer of different sizes (11.31 Kg each 90 deg. Cut point)	EA	3.55	101.40	359.97
16	Black Paint	EA	0.5	286.00	143.00
17	Yellow Colour Paint for Background	Kg	2	216.00	432.00
A	A. Sub total				50,325.12
B	B. Stock, Storage & Insurance @ 3% of A				1,509.75
C	Sub Total (C=A+B)				51,834.87
D	T&P @ 2% of C				1,036.75
E	Contingency @ 3% of C				1,555.05
F	Transportation @ 7.5% of C				3,887.62
	Erection Charges @ 5% on WPB poles				1,527.54
G	Erection Charges @ 10%				2,128.68
H	Total				61,970.51
18	Concreting ratio 1:1.5:3 (500mmX500mmX2200mm) = 0.55Cu.mtr	Cu.mtr	0.45	6500.00	2925.00
19	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				65,626.76
B	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB (GI) Pole 160x152 (11 Mtr. Long, 30.44KG/Mtr.)	No	2	29661.00	59322.00
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	91.776	76.00	6974.98
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	21.1456	97.50	2061.70
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	23.40288	76.00	1778.62
5	Danger Plate, 1 no's.	No.	2	104	208.00
6	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	0.6018	97.5	58.68
7	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	6	104.00	624.00
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	2.4072	97.50	234.70
9	11 KV pin insulator polymer	Set	8	260.00	2080.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	12	455.00	5460.00
11	Disc insulator (B&S) 70 KN polymer	No.	12	1495.00	17940.00
12	Earthing of Support (Coil Type)	EA	2	215.80	431.60
13	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	0.524	97.50	51.09
14	PG Clamp for 55 sq. mm AAA Conductor	EA	12	624.00	7488.00

15	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	5	162.50	812.50
16	HT Stay Set (Complete)	Set	5	1365.00	6825.00
17	HT Stay Insulator	No.	5	65.00	325.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	75	97.50	7312.50
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	14.866	101.40	1507.41
20	Black Paint	EA	1	286.00	286.00
21	Yellow Colour Paint for Background	Kg	4	216.00	864.00
A	A. Sub total				1,22,645.77
B	B. Stock, Storage & Insurance @ 3% of A				3,679.37
C	Sub Total (C=A+B)				1,26,325.14
D	T&P @ 2% of C				2,211.84
E	Contingency @ 3% of C				3,789.75
F	Transportation @ 7.5% of C				9,474.39
	Erection Charges @ 5% on poles				3,055.08
G	Erection Charges @ 10%				4,949.02
H	Total				1,49,805.22
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 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.)	No	5	2250.00	11250.00
23	Concreting ratio 1:1.5:3 (500mmX500mmX2200mm) = 0.55Cu.mtr	Cu.mtr	0.9	6500.00	5850.00
24	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cu.mtr	0.225	6500.00	1462.50
	Total Material + Services Cost				1,68,367.72
C	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	3	29661.00	88983.00
2	11 KV V cross arm	No	4	1053.00	4212.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	4	195.00	780.00
4	Danger plate	No	3	104.00	312.00
5	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.903	97.50	88.04
6	GI barbed wire/Anticlimbing device	No	9	104.00	936.00
7	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	3.61	97.50	351.98
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	12	260.00	3120.00
9	Earthing of Support (Coil Type)	No	3	215.80	647.40
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.79	97.50	77.03

11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	4.35	101.40	441.09
12	55 SQ. MM AAAC	Km	0.618	39000.00	24102.00
13	Yellow colour paint for Background	Ltr	6	216.00	1296.00
14	Black colour paint for numbering	Ltr	3	286.00	858.00
A	A. Sub total				1,26,204.53
B	B. Stock, Storage & Insurance @ 3% of A				3,786.14
C	Sub Total (C=A+B)				1,29,990.67
D	T&P @ 2% of C				2,599.81
E	Contingency @ 3% of C				3,899.72
F	Transportation @ 7.5% of C				9,749.30
	Erection Charges @ 5% on poles				4,582.62
G	Erection Charges @ 10%				3,833.78
H	Total				1,54,655.90
15	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	1.35	6500.00	8775.00
17	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.3375	6500.00	2193.75
	Total Material + Services Cost (J+K)				1,65,624.65
III	Dismantling Charges(as per TPCODL)for dismantling of line and Pole.	LS	1	698.94	698.94
	Total Rs.				7,09,222.32
	Cess @ 1%				7092.22
	Total Estimated Cost				7,16,314.55
	Total Estimated Cost in Figures				7,16,315.00
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/-
Project Manager(Elect.)

Sd/-
DM I/C (Elect)

7605.00

39870.35

15275.00