

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 11 K.V LINE FROM THE PROPOSED SITE OF CONSTRUCTION OF MULTI PURPOSE HALL AT KBDAY COLLEGE, NIRAKARPUR IN THE DISTRICT OF KHURDA.

BID REF NO :- 66/PM/ELECT/OPHWC/2024-25

**NAME &
ADDRESS
OF THE
FIRM**

SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	11 KV LINE				
A	DP WITH AB SWITCH				
1	WPB (GI) Pole 160x152 (11Mtr. Long, 30.44KG/Mtr.)-DP	No	2	34,153.68	68307.36
2	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 2.3 mtr., 2 no's channel required =(2x9.56x2.3)	Kg	57.36	102.00	5850.72
3	Fish Plate 50x6 mm., 2.36 Kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	Kg	3.9648	102.00	404.41
4	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	102.00	4369.68
5	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	102.00	682.38
6	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)each channel length 0.8 Mtr.	Kg	5.712	102.00	582.62
7	Double pole belting Channel 75x40x4.8 mm ,7.14 Kg/mtr., each channel length 3.0 Mtr.,4 nos channel required.	Kg	85.68	102.00	8739.36
8	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 2.671 mtr., 4 nos angle required = (4.5x2.671x4)	Kg	63.216	102.00	6448.03
9	Danger Plate, 2 no's.	No.	2	108.80	217.60
10	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	102.00	61.38
11	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	Pair	2	170.00	340.00
12	H.T. Stay set (Complete)	Set	2	1,428.00	2856.00
13	H.T. Stay Insulator Type-C	No.	2	68.00	136.00
14	7/10 SWG Stay Wire 15kg /stay	K.g.	30	102.00	3060.00
15	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	2	1,428.00	2856.00

16	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 5x2.36	Kg	48.38	102.00	4934.76
17	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	Kg	6	108.80	652.80
18	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	Kg	2.4072	102.00	245.53
19	Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	3.00	4828	14,484.00
20	AB Switch (11KV,400A.3pole,50Hz)	Set	1.00	16116	16,116.00
21	11 KV pin insulator polymer	No.	3	272.00	816.00
22	H W fitting(B&S) 70KN, 3Bolt	No.	6	476.00	2856.00
23	Disc insulator (B&S) 70 KN polymer	No.	6	1,564.00	9384.00
24	Wedge connector for 55 sq. mm AAA Conductor	No.	6	146.20	877.20
25	Poly carbonate Bird Guard	EA	9	20.96	188.64
26	GI Nut , Bolt & Washer of different sizes	Kg	13.718	106.08	1455.21
27	Black Paint	Ltr	1	299.20	299.20
28	Yellow Colour Paint for Background	Ltr	2	167.46	334.92
A	A. Sub total				1,57,555.81
B	B. Stock, Storage & Insurance @ 3% of A				4,726.67
C	Sub Total (C=A+B)				1,62,282.48
D	T&P @ 2% of C				3,055.15
E	Contingency @ 3% of C				4,868.47
F	Transportation @ 7.5% of C				12,171.19
	Erection Charges @ 5% on poles				3,517.83
G	Erection Charges @ 10%				8,240.07
H	Total				1,94,135.19
29	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	2	2301.53	4603.06
30	Concreting Ratio 1:1:5:3(500 mmx500mmx2200 mm)=0.55 Cu. Mtr.	Cum	0.9	6648.85	5983.97
31	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6648.85	1495.99
32	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	3784.73	7,569.46
	Total Material + Services Cost (J+K)				2,13,787.67
B	11 KV CUT POINT WITH 90 DEGREE ANGLE				

1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	3	34153.68	102461.04
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	137.664	102.00	14041.73
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	31.7184	102.00	3235.28
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	35.10432	102.00	3580.64
5	Danger plate	No	3	108.80	326.40
6	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.9027	102.00	92.08
7	GI barbed wire/Anticlimbing device	No	9	108.80	979.20
8	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	3.6108	102.00	368.30
9	11 KV pin insulator polymer	Set	12	272.00	3264.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	18	476.00	8568.00
11	Disc insulator (B&S) 70 KN polymer	No.	18	1564.00	28152.00
12	Earthing of Support (Coil Type)	No	3	225.76	677.28
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.786	102.00	80.17
14	Wedge connector for 55 sq. mm AAA Conductor	No.	18	146.20	2631.60
15	Poly carbonate Bird Guard	EA	30	20.96	628.80
16	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	6	170.00	1020.00
17	HT Stay Set (Complete)	Set	6	1428.00	8568.00
18	HT Stay Insulator	No.	6	68.00	408.00
19	7/10 SWG Stay Wire , 15 Kg/stay	KG	90	102.00	9180.00
20	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	22.299	106.08	2365.48
21	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr	6	167.46	1004.76
22	Black paint (GIS Numbering & Zebra stripping)	Ltr	1.5	299.20	448.80
A	A. Sub total				1,92,081.55
B	B. Stock, Storage & Insurance @ 3% of A				5,762.45
C	Sub Total (C=A+B)				1,97,844.00
D	T&P @ 2% of C				3561.85
E	Contingency @ 3% of C				5,935.32
F	Transportation @ 7.5% of C				14,838.30
	Erection Charges @ 5% on poles				5,276.74
G	Erection Charges @ 10%				7,255.78
H	Total				2,34,711.99
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 excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material .	No	6	2301.53	13809.18

24	Couping Ratio 1:1:5:3(500 mmx500mmx1800mm)=0.45 Cu. Mtr.	Cum	1.35	6648.85	8975.95
25	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.3375	6648.85	2243.99
	Total Material + Services Cost (J+K)				2,59,741.10
C	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	34153.68	68307.36
2	11 KV V cross arm(GI)	No	2	1101.60	2203.20
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	2	204.00	408.00
4	Danger plate	No	2	108.80	217.60
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	0.6	102.00	61.20
6	GI barbed wire/Anticlimbing device	No	6	108.80	652.80
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	2.41	102.00	245.82
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	6	272.00	1632.00
9	Earthing of Support (Coil Type)	No	2	225.76	451.52
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.524	102.00	53.45
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	2.9	106.08	307.63
12	55 sq. mm AAA conductor	Km	0.70	40800.00	28366.20
13	Yellow colour paint for Background	Ltr	4	167.46	669.84
14	Black colour paint for numbering	Ltr	2	299.20	598.40
15	Polycarbonate Bird Guard	No	6	20.96	125.76
A	A. Sub total				1,04,300.78
B	B. Stock, Storage & Insurance @ 3% of A				3,129.02
C	Sub Total (C=A+B)				1,07,429.80
D	T&P @ 2% of C				2,148.60
E	Contingency @ 3% of C				3,222.89
F	Transportation @ 7.5% of C				8,057.24
	Erection Charges @ 5% on poles				3,517.83
G	Erection Charges @ 10%				3,707.32
H	Total				1,28,083.68
16	Concreting Ratio 1:1:5:3(M-20 Grade)with Dimension(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6648.85	5983.97
17	Couping Ratio 1:1:5:3(M-20 Grade) with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6648.85	1495.99
	Total Material + Services Cost (J+K)				1,35,563.64

II	Dismantling Charges				
1	Dismantling of Joist Pole	No	2	1380.92	2,761.84
2	Dismantling of 75x40mm MS channel (1.3 Kg each)	No	4	8.10	32.40
3	Dismantling of 11 KV V cross Arm	No	2	41.40	82.80
4	Dismantling of Back clamp for V cross Arm	No	2	8.10	16.20
5	Dismantling of Pin Insulator	No	6	8.10	48.60
6	Dismantling of 11 KV Line conductor	Mtr.	120	6.30	756.00
	Total Rs.				3,697.84
	Total Cost Rs.				6,12,790.25
	Cess @ 1%				6,127.90
	Total Estimated Cost				6,18,918.15
	Total Estimated Cost in Figures				6,18,918.00
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)**