

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
JANAPATH, BHOINAGAR, BHUBANESWAR - 22
[Electrical Division]
Ph: 0674-2541545, 2542921, Fax: 0674-2541543
E-mail :- pmelectricalophwc2021@gmail.com, Website: www.ophwc.nic.in

PRICE BID FOR THE WORK UNDER SL. NO :- 01 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 120 MEN BARRACK - I & II, DCP, BHUBANESWAR IN THE DISTRICT OF KHURDA.

BID REF NO :- 79/PM/ELECT/OPHWC/2023-24

**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	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.02 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole 160X152(13 Mtr. Long ,30.44 Kg/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	13.216	97.50	1288.56
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	11.70144	76.00	889.31
5	Danger plate	No	1	104.00	104.00
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	0.3009	97.50	29.34
7	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.2036	97.50	117.35
9	11 KV pin insulator polymer	Set	6	260.00	1560.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	9	455.00	4095.00
11	Disc insulator (B&S) 70 KN polymer	No.	9	1495.00	13455.00
12	Earthing of Support (Coil Type)	EA	1	215.80	215.80
13	No. 8 GI wire (dia 4.6 mm)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 AAAC	No	9	689.00	6201.00
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	Yellow colour paint for Background	Ltr	2	216.00	432.00
21	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				68,880.10
B	B. Stock, Storage & Insurance @ 3% of A				2,066.40
C	Sub Total (C=A+B)				70,946.50
D	T&P @ 2% of C				1,293.06
E	Contingency @ 3% of C				2,128.40
F	Transportation @ 7.5% of C				5,320.99
	Erection Charges @ 5% on poles				1,527.54
G	Erection Charges @ 10%				3,410.24
H	Total				84,626.72
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(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	Total Material + Services Cost (J+K)				92,782.97
B	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	3	1053.00	3159.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	3	195.00	585.00
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	0.9	97.50	87.75
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	9	260.00	2340.00
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	80 sq. mm AAAC	Km	0.06	55900.00	3454.62
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				103,528.86
B	B. Stock, Storage & Insurance @ 3% of A				3,105.87
C	Sub Total (C=A+B)				106,634.73
D	T&P @ 2% of C				2,132.69
E	Contingency @ 3% of C				3,199.04
F	Transportation @ 7.5% of C				7,997.60
	Erection Charges @ 5% on poles				4,582.62
G	Erection Charges @ 10%				1,498.22
H	Total				126,044.91
15	Couping Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	1.35	6500.00	8775.00
16	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)				137,013.66
II	INSTALLATION OF 100 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	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 Bunch Cable (25x70 sqmm)	No	2	84.50	169.00
6	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	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	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
9	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
10	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
11	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
12	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
13	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
14	Transformer base GI channel 100x50x6 mm channel(3000 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	57.36	76.00	4359.36
15	Transformer base suport channel 100x50x6 mm GI channel(515 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	9.85	76.00	748.60
16	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	27	76.00	2052.00
17	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	5.22	76.00	396.72
18	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00

19	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	154.81	97.50	15093.98
20	100 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	152100.00	152100.00
21	LT Distrubution Box with MCCB, Aluminim Busbar of 2 Bay with kit kat Fuse for 100 KVA S/S.	No	1	31744.70	31744.70
22	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
23	4Cx150 sq. mm LT XLPE cable	Mtr	15	824.01	12360.15
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	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
28	11 KV H/W fitting polymer type	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 Insulator	No.	2	65.00	130.00
33	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
34	7/10 SWG Stay Wire	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
	Structure Numbering and marking				
42	Yellow colour paint for Background	Ltr	2	216.00	432.00
43	Black colour paint for numbering	Ltr	1	286.00	286.00
44	DT Meter with Accessories	No	1	34320.00	34320.00
A				A. Sub total	396,522.33
B				B. Stock, Storage & Insurance @ 3% of A	11,895.67
C				Sub Total (C=A+B)	408,418.00
D				T&P @ 2% of C	7,591.05
E				Contingency @ 3% of C	12,252.54
F				Transportation @ 7.5% of C	30,631.35
G				Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%	10,888.23
H				Erection Charges @ 20% on PSC Poles	803.40
I				Erection Charges @ 10% for other materials	15,777.06
J				Total	486,361.63
45	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00

46	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00
47	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
48	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
49	Laying of 4Cx150 sq.mm LT XLPE cable	Mtr.	72	15.00	1,080.00
50	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
51	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.375	6500.00	2,437.50
					95,236.50
				Sub total Rs	581,598.13
III	Construction of LT Line using 3x50+1x35 sq. mm AB Cable- 0.04 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	1	3900.00	3,900.00
2	LT stay set complete	Set	1	676.00	676.00
3	7/12 SWG GI stay wire, Grade-2	Kg	12	97.50	1,170.00
4	LT stay clamp	Pair	1	143.00	143.00
5	LT stay set Insulator	No	1	39.00	39.00
6	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	2	260.00	520.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	2	78.00	156.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	84.50	169.00
10	3x50+1x35 sq. mm LT AB cable	Mtr	42	169.00	7,098.00
11	4 way service Distribution Box with kitkat fuse and aluminium Busbar	No	1	2873.00	2,873.00
12	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	1	113.08	113.08
13	Coil Earthing	No	1	215.80	215.80
14	No-8 GI wire (Dia-4.6mm)	Kg	0.262	97.50	25.55
15	Danger plate (LT)	No	1	104.00	104.00
16	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.3	97.5	29.25
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	3	104	312.00
18	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	1.2	97.5	117.00
19	GI Nut, Bolt & washers of different sizes	Kg	0.5	101.40	50.70
20	Yellow colour paint for Background	Ltr	2	216.00	432.00
21	Black colour paint for numbering	Ltr	1	286.00	286.00
A				A. Sub total	18,429.38

B	Stock, Storage & Insurance @ 3% of A				552.88
C	Sub Total (C=A+B)				18,982.26
D	Contingency @3% of C				569.47
E	T & P 2% of C				365.73
F	Transportation @ 7.5% of C				1,423.67
G	Erection Charges for PSC Pole @ 20%				803.40
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,287.69
J	Sub Total Rs.				23,432.21
Civil and Services Works (As per Technical Specification)					
22	Fixing of LT 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 excavation supply of 0.5 cum cement concrete foundation 1:2:4 size(500x500x800mm)using 20 mm BHG metal with all Labour and material(Excavation of earth will be done of size500x500x1500mm)	No	1	2250	2250
23	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	0.375	6500.00	2,437.50
K	Total Services Cost				4,687.50
	Total Material + Services Cost (J+K)				28,119.71
	Total Estimated Cost				839,514.47
	Total Estimated Cost in Figures				839,514.00
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/-
Asst. Project Manager (Elect) (Hqr)

Sd/-
Project Manager(Elect.)