

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 :- 06 AS PER IFB					
NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 6-F TYPE QTRS. AT TIRTOL FIRE STATION IN THE DIST. OF JAGATSINGHPUR.					
BID REF NO :- 11/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	INSTALLATION OF 63 KVA S/S.				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
2	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	76.00	4359.36
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	93.00	368.73
4	MU Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	76.00	3255.84
5	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
6	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
7	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
8	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
9	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
10	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
11	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
12	Transformer base suport channel 100x50x6 mm GI channel(515 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	9.8467	76.00	748.35
13	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	27	76.00	2052.00
14	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	5.22	76.00	396.72
15	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00
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	154.81	93.00	14397.33
17	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	107260.00	107260.00
18	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 63 KVA S/S.	No	1	22719.28	22719.28
19	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
20	4Cx95 sq. mm LT XLPE cable	Mtr	15	479.61	7194.15
21	11 KV AB switch (200 Amp, 3 pole)	Set	1	9114.00	9114.00
22	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7588.80	7588.80

23	PG Clamp for 55 sq. mm AAAC	No	6	595.20	3571.20
24	11 KV Disc insulator polymer type 70 KN	No	3	1426.00	4278.00
25	11 KV H/W fitting polymer type	Pair	3	434.00	1302.00
26	11 KV LA (12KV,10 KA)station class-2	No	3	4402.00	13206.00
27	11 KV Pin Insulator polymer type	No	3	248.00	744.00
28	HT Stay Set (Complete)	Set	2	1302.00	2604.00
29	HT Stay Insulator	No.	2	62.00	124.00
30	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	155.00	310.00
31	7/10 SWG Stay Wire	KG	30	93.00	2790.00
32	GI Pipe for earthing 40mm dia 3mtr long	No	7	1302.00	9114.00
33	GI Nut, Bolt & washers of different sizes	Kg	25	96.72	2418.00
34	GI barbed wire/Anticlimbing device	No	6	99.20	595.20
35	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	93.00	223.87
36	Danger plate	Kg	2	99.20	198.40
37	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	93.00	55.97
38	Name Plate	No	1	99.20	99.20
	Structure Numbering and marking				
39	Yellow colour paint for Background	Ltr	2	272.80	545.60
40	Black colour paint for numbering	Ltr	1	272.80	272.80
A	A. Sub total				2,91,956.57
B	B. Stock, Storage & Insurance @ 3% of A				8,758.70
C	Sub Total (C=A+B)				3,00,715.27
D	T&P @ 2% of C				6,014.31
E	Contingency @ 3% of C				9,021.46
F	Transportation @ 7.5% of C				22,553.64
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				8,255.14
H	Erection Charges @ 10% for other materials				12,022.27
I	Total				3,58,582.08
41	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
42	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00
43	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
44	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
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
					91,719.00
	Sub total Rs				4,50,301.08
II	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.02 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	26516.95	26516.95
2	11 KV V Cross Arm	No	1	1004.40	1004.40

3	Top Bracket 100x50x6 mm,9.56 Kg/Mtr.,each channel Length1.2 Mtr.,2 Nos., channel required	No	1	186.00	186.00
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	22.943	76.00	1743.67
5	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.286	93.00	491.60
6	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	5.85	76.00	444.60
7	Danger Plate	No	1	99.20	99.20
8	Back clamp for Danger Plate 25x3 mm , flat of 0.59 Kg/Mtr. Flat of 0.51 Mtr Length 1 Nos.	Kg	0.3009	93.00	27.98
9	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	3	99.20	297.60
10	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's =	Kg	1.2036	93.00	111.93
11	11 KV pin insulator polymer	Set	6	248.00	1488.00
12	H W fitting(B&S) 70KN, 3Bolt	No.	3	434.00	1302.00
13	Disc insulator (B&S) 70 KN polymer	No.	3	1426.00	4278.00
14	Earthing of Support (Coil Type)	EA	1	205.84	205.84
15	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	0.262	93.00	24.37
16	PG Clamp for 55 sq.mm AAA conductor	No.	6	595.20	3571.20
17	55 sq. mm AAAC	Km	0.0618	37200.00	2298.96
18	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	1	155.00	155.00
19	HT stay set complete	Set	1	1302.00	1302.00
20	HT stay insulator-Type-C	No	1	62.00	62.00
21	7/10 SWG Stay Wire	KG	15	93.00	1395.00
22	GI Nut , Bolt & Washer of different sizes (7.433 Kg each) Cut Pole	Kg	5	96.72	483.60
23	Black Paint	K.g.	0.5	272.80	136.40
24	Yellow Colour Paint for Background	Ltr	2	272.80	545.60
A	A. Sub total				48,171.90
B	B. Stock, Storage & Insurance @ 3% of A				1,445.16
C	Sub Total (C=A+B)				49,617.06
D	T&P @ 2% of C				992.34
E	Contingency @ 3% of C				1,488.51
F	Transportation @ 7.5% of C				3,721.28
	Erection Charges @ 5% on poles				1,365.62
G	Erection Charges @ 10%				1,930.34
H	Total				59,115.15
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	1	2250	2,250.00
23	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	0.45	6500.00	2,925.00
24	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.1125	6500	731.25
	Total Material + Services Cost (J+K)				65,021.40

III	Construction of LT Line using 3x50+1x35+1x16 sq. mm LT AB Cable- -0.18 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	6	3720.00	22,320.00
2	LT stay set complete	Set	6	644.80	3,868.80
3	7/12 SWG GI stay wire, Grade-2	Kg	72	93.00	6,696.00
4	LT stay clamp	Pair	6	136.40	818.40
5	LT stay set Insulator	No	6	37.20	223.20
6	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	10	248.00	2,480.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	8	74.40	595.20
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	8	80.60	644.80
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	2	421.60	843.20
11	3x50+1x35+1x16 sq. mm LT Aerial Bunched Cable	K.M	0.189	173600.00	32,810.40
12	4 way service Distribution Box with kitkat fuse and aluminium Busbar	No	6	2740.40	16,442.40
13	Insulated Piercing connector ,Type-C main 16-95 sq. mm & Tap-1.5 to 16 sq. mm	No	24	40.06	961.44
14	Pipe Earthing(each 5 th Pole to Earth)	No	1	1302.00	1,302.00
15	Coil Earthing	No	5	205.84	1,029.20
16	No-8 GI wire (Dia-4.6mm)	Kg	1.572	93.00	146.20
17	Danger plate (LT)	No	6	99.20	595.20
18	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	1.805	93	167.87
19	GI barbed wire/Anticlimbing device 3 kg per support	Kg	18	99.2	1785.60
20	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	7.22	93	671.46

21	GI Nut, Bolt & washers of different sizes	Kg	3	96.72	290.16
22	Yellow colour paint for Background	Ltr	12	272.80	3,273.60
23	Black colour paint for numbering	Ltr	6	272.80	1,636.80
A	TOTAL MATERIAL COST				99,601.92
B	Stock, Storage & Insurance @ 3% of A				2,988.06
C	Sub Total (C=A+B)				1,02,589.98
D	Contingency @3% of C				3,077.70
E	T & P 2% of C				2,051.80
F	Transportation @ 7.5% of C				7,694.25
G	Erection Charges for PSC Pole @ 20%				4,597.92
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				6,630.49
J	Sub Total Rs.				1,26,642.14
Civil and Services Works (As per Technical Specification)					
24	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	6	2250	13500
25	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	2.25	6500.00	14,625.00
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
K	Total Services Cost				31,825.00
	Total Material + Services Cost (J+K)				1,58,467.14
	Total Rs.				6,73,789.62
	Total Estimated Cost				6,73,789.62
	Total Estimated Cost in Figures				6,73,790.00
EXCESS	☐ LESS ☐ (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.)