

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 :- 01 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 2-C TYPE QTRS. AT OSAP 6TH BN., CUTTACK IN THE DISTRICT OF CUTTACK.

BID REF NO :- 59/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 0.15 KM .				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	4	26516.95	106067.80
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	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
5	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	97.50	1030.85
6	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
7	Danger plate	No	4	104.00	416.00
8	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	1.204	97.50	117.39
9	GI barbed wire/Anticlimbing device	No	12	104.00	1248.00
10	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	4.814	97.50	469.37
11	11 KV pin insulator polymer	Set	12	260.00	3120.00
12	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
13	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
14	Earthing of Support (Coil Type)	EA	4	215.80	863.20
15	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.048	97.50	102.18
16	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
17	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
18	HT Stay Set (Complete)	Set	2	1365.00	2730.00
19	HT Stay Insulator	No.	2	65.00	130.00
20	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00

21	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	11.78	101.40	1194.49
22	55 sq. mm AAAC	Km	0.45	39000.00	17550.00
23	Yellow colour paint for Background	Ltr	8	216.00	1728.00
24	Black colour paint for numbering	Ltr	4	286.00	1144.00
A	A. Sub total				164,726.07
B	B. Stock, Storage & Insurance @ 3% of A				4,941.78
C	Sub Total (C=A+B)				169,667.85
D	T&P @ 2% of C				3,393.36
E	Contingency @ 3% of C				5,090.04
F	Transportation @ 7.5% of C				12,725.09
	Erection Charges @ 5% on poles				5,462.49
G	Erection Charges @ 10%				5,412.47
H	Total				201,751.30
25	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	2250.00	4500.00
26	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	1.8	6500.00	11700.00
27	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.45	6500.00	2925.00
	Total Material + Services Cost (J+K)				220,876.30
II	INSTALLATION OF 25 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
2	Top channel GI 100x50x6 mm (9.56 kg/Mtr.,2 Nos.)Each channel length 3000 mm Long	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	97.50	386.57
4	Transformer Base GI Channel 100 X 50 X 6 MM (3000 mm long) (9.56Kg./Mtr, 2 No's.) (Each 2x3.000x9.56= 57.36 Kg)	Kg	57.36	76.00	4359.36
5	Transformer Base Support GI Channel 100 X 50 X 6 MM (515 mm long) (9.56Kg./Mtr, 2 No's) (Each 2x0.515x9.56= 9.85Kg)	Kg	9.85	76.00	748.60
6	Transformer Belting Angle 50 X 50 X 6MM GI (3000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x3.0x4.5 Kg)	Kg	27	76.00	2052.00
7	Transformer Belting Support Angle 50 X 50 X 6MM GI (580 mm long)(4.5Kg./Mtr,2 No's) (Each 2x0.580x4.5= Kg)	Kg	5.22	76.00	396.72
8	LTDB Mounting Angle 50 X 50 X 6MM GI (1000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x1x4.5 Kg)	Kg	9	76.00	684.00
9	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

10	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
11	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
12	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
13	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
14	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
15	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
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	154.816	97.50	15094.56
17	25 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	69940.00	69940.00
18	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 25 KVA S/S.	No	1	19409.00	19409.00
19	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
20	4Cx35 sq. mm LT XLPE cable	Mtr	15	213.38	3200.70
21	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
22	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
23	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
24	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
25	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
26	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
27	11 KV Pin Insulator polymer type	No	3	260.00	780.00
28	HT Stay Set (Complete)	Set	2	1365.00	2730.00
29	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
30	HT Stay Insulator	No.	2	65.00	130.00
31	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
32	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
33	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
34	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
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	97.50	234.70
36	Danger plate	Kg	2	104.00	208.00
37	Name Plate	No	1	104.00	104.00
38	Yellow colour paint for Background	Ltr	2	216.00	432.00
39	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				247,514.66
B	B. Stock, Storage & Insurance @ 3% of A				7,425.44
C	Sub Total (C=A+B)				254,940.10
D	T&P @ 2% of C				5,098.80
E	Contingency @ 3% of C				7,648.20
F	Transportation @ 7.5% of C				19,120.51
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				6,333.16

H	Erection Charges @ 20% on PSC Poles					
I	Erection Charges @ 10% for other materials					12,198.35
J	Total					305,339.12
40	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00	
41	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1469.00	
42	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	
43	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	
44	Laying of 4Cx35 sq. mm LT XLPE cable	Mtr	15	46.80	702.00	
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00	
46	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.375	6500.00	2,437.50	
					94,858.50	
	Sub total Rs					400,197.62
III	Construction of LT Line using 3x35+1x25+1X16 sq. mm LT AB Cable- -0.08 Km.					
1	9 Mtr Long 300 KG PSC Pole	No	2	3900.00	7,800.00	
2	LT stay set complete	Set	1	676.00	676.00	
3	7/12 SWG GI stay wire, Grade-2	Kg	10	97.50	975.00	
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	3	260.00	780.00	
8	Eye Hook for XLPE Aerial Bunched Cable	No	3	78.00	234.00	
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	84.50	169.00	
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	1	442.00	442.00	
11	3x35+1x25+1X16 sq. mm LT Aerial Bunched Cable	Mtr	80	156.00	12,480.00	
12	Insulated Piercing connector ,Type-B main 25-150 sq. mm & Tap-6 to 35 sq. mm	No	3	62.13	186.39	
13	Insulated Piercing connector ,Type-D main 10-50 sq. mm & Tap-1.5 to 16 sq. mm	No	3	80.00	240.00	
14	Coil Earthing	No	2	215.80	431.60	
15	No-8 GI wire (Dia-4.6mm)	Kg	0.524	97.50	51.09	
16	Danger plate (LT)	No	2	104.00	208.00	

17	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	97.5	58.68
18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	6	104	624.00
19	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	97.5	234.70
20	GI Nut, Bolt & washers of different sizes	Kg	1	101.40	101.40
21	Yellow colour paint for Background	Ltr	4	216.00	864.00
22	Black colour paint for numbering	Ltr	2	286.00	572.00
A	TOTAL MATERIAL COST (FOR-2020-21)				27,309.86
B	Stock, Storage & Insurance @ 3% of A				819.30
C	Sub Total (C=A+B)				28,129.15
D	Contingency @3% of C				843.87
E	T & P 2% of C				562.58
F	Transportation @ 7.5% of C				2,109.69
G	Erection Charges for PSC Pole @ 20%				1,606.80
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,820.72
J	Sub Total Rs.				35,072.82
Civil and Services Works (As per Technical Specification)					
23	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
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	0.75	6500.00	4,875.00
K	Total Services Cost				7,125.00
	Total Material + Services Cost (J+K)				42,197.82
	Total Estimated Cost				663,271.74
	Total Estimated Cost in Figures				663,272.00
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.)