

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 :- 07 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO BOYS HOSTEL AND GIRLS HOSTEL AT NAYAPALLI ASHRAM SCHOOL, BHUBANESWAR IN THE DIST. OF KHURDA.

BID REF NO :- 51/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 0.01 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole 160X152(11 Mtr. Long ,30.44 Kg/Mtr.) 1 Stud pole	No	1	26516.95	26516.95
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	10.5728	97.50	1030.85
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	0.3008	97.50	29.33
7	GI barbed wire/Anticlimbing device	No	1	104.00	104.00
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	4	260.00	1040.00
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 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.262	97.50	25.55
14	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
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			56,443.33
B		B. Stock, Storage & Insurance @ 3% of A			1,693.30
C		Sub Total (C=A+B)			58,136.63
D		T&P @ 2% of C			1,162.73
E		Contingency @ 3% of C			1,744.10
F		Transportation @ 7.5% of C			4,360.25
		Erection Charges @ 5% on poles			1,365.62
G		Erection Charges @ 10%			2,453.09
H		Total			69,222.41
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	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)			77,378.66
C	11 KV PIN POINTS WITH WPB				
1	55 sq. mm AAAC	Km	0.0309	39000.00	1205.10
A		A. Sub total			1,205.10
B		B. Stock, Storage & Insurance @ 3% of A			36.15
C		Sub Total (C=A+B)			1,241.25
D		T&P @ 2% of C			24.83
E		Contingency @ 3% of C			37.24
F		Transportation @ 7.5% of C			93.09
		Erection Charges @ 5% on poles			
G		Erection Charges @ 10%			124.13
H		Total			1,520.53
II	INSTALLATION OF 100 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
2	9 Mtr Long 300 KG PSC Pole(for raising of LT ABC)	No	1	3900.00	3,900.00
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	No	2	84.50	169.00
6	Top channel GI 100x50x6 mm (9.56 kg/Mtr.,2 Nos.)Each channel length 3000 mm Long	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	MU Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	76.00	3255.84

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	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
16	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
17	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
18	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
19	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00
20	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
21	100 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	152100.00	152100.00
22	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 100 KVA S/S.	No	1	31744.70	31744.70
23	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
24	4Cx150 sq. mm LT XLPE cable	Mtr	15	824.01	12360.15
25	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
26	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
27	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
28	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
29	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
30	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
31	11 KV Pin Insulator polymer type	No	3	260.00	780.00
32	HT Stay Set (Complete)	Set	2	1365.00	2730.00
33	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
34	HT Stay Insulator	No.	2	65.00	130.00
35	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
36	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
37	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
38	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
39	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
40	Danger plate	Kg	2	104.00	208.00
41	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

42	Name Plate	No	1	104.00	104.00
43	Yellow colour paint for Background	Ltr	2	216.00	432.00
44	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				3,59,170.07
B	B. Stock, Storage & Insurance @ 3% of A				10,775.10
C	Sub Total (C=A+B)				3,69,945.17
D	T&P @ 2% of C				7,151.70
E	Contingency @ 3% of C				11,098.36
F	Transportation @ 7.5% of C				27,745.89
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				10,564.40
H	Erection Charges @ 20% on PSC Poles				803.40
I	Erection Charges @ 10% for other materials				12,577.45
J	Total				4,39,886.36
45	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
46	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1469.00
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	15	72.00	1,080.00
50	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.375	6500.00	2,437.50
51	Brick work with F.P.S bricks	M3	7.5	6747.00	50,602.50
52	Excavation	M3	14.4	700.00	10,080.00
53	Providing and laying of plain cement concrete(PCC) of proportion(1:3:6) 20 mm size hard crusher broken granite stone metal and screened, washed, sharp sand for mortar of approved quality and from approved quarry including hoisting,lowering,laying concrete,ramming,watering and curing etc.Complete to required levels in layers not exceeding 15 cm thick in each layer including cost,conveyance,loading,unloading,royalties and taxes,cess of all materials and cost of all laboures.	M3	1.2	5130.00	6,156.00
54	Plastering	M3	30	336.00	10,080.00
	total Rs				1,18,155.00
	Sub total Rs				5,58,041.36
III	Construction of LT Line using 4x95+1x95+1X16 sq. mm LT AB Cable- -0.3 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	14	3900.00	54,600.00
2	LT stay set complete	Set	5	676.00	3,380.00

3	7/12 SWG GI stay wire, Grade-2	Kg	60	97.50	5,850.00
4	LT stay clamp	Pair	5	143.00	715.00
5	LT stay set Insulator	No	5	39.00	195.00
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	12	260.00	3,120.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	6	78.00	468.00
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	6	84.50	507.00
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	6	442.00	2,652.00
10	4 Cx95(P)+1Cx95(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	315	368.64	1,16,121.60
11	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	6	113.08	678.48
11	Insulated Piercing connector ,Type-C main 16-95 sq. mm & Tap-1.5 to 16 sq. mm	No	2	60.00	90.00
	Pipe earthing	No	3	1365.00	4,095.00
14	Coil Earthing	No	11	215.80	2,373.80
15	No-8 GI wire (Dia-4.6mm)	Kg	3.668	97.50	357.63
16	Danger plate (LT)	No	14	104.00	1,456.00
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	4.21	97.5	410.48
18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	42	104	4368.00
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	16.85	97.5	1642.88
20	GI Nut, Bolt & washers of different sizes	Kg	7	101.40	709.80
21	Yellow colour paint for Background	Ltr	28	216.00	6,048.00
22	Black paint	Ltr	14	286.00	4,004.00
A	TOTAL MATERIAL COST				2,13,842.66
B	Stock, Storage & Insurance @ 3% of A				6,415.28

C		Sub Total (C=A+B)			2,20,257.94
D		Contingency @3% of C			6,607.74
E		T & P 2% of C			4,405.16
F		Transportation @ 7.5% of C			16,519.35
G		Erection Charges for PSC Pole @ 20%			11,247.60
H		Erection Charges of Joist Poles @ 5%			
I		Erection Charges of other @ 10%			14,935.82
J		Sub Total Rs.			2,73,973.60
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	5	2250	11250
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	5.25	6500.00	34,125.00
25	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	3	3700.00	11,100.00
K	Total Services Cost				56,475.00
	Total Material + Services Cost (J+K)				3,30,448.60
	Total Estimated Cost				9,67,389.16
	Total Estimated Cost in Figures				9,67,389.00
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.)