

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 :-03 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 120 MEN BARRACK AT 7TH. BN., BHUBANESWAR IN THE DIST. OF KHURDA.

BID REF NO :- 31/PM/ELECT/OPHWC/2021-22

**NAME &
ADDRESS
OF THE
FIRM**

SCHEDULE OF WORKS

PART - 1

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	Construction of 11 Kv OH Line with 80 sq. mm AAAC-15 Mtr.				
1	PG clamp for 80 sq. mm AAAC	No	6	530.00	3,180.00
2	11 KV H/W fitting (B & S) 70 KN 3 bolt	Pair	6	351.00	2,106.00
3	11 KV Disc insulator (B & S)Double Disc 70 KN polymer	No	6	1150.00	6,900.00
4	80 sq. mm AAA conductor	Km	0.04635	43000.00	1,993.05
5	GI Nut, Bolt & washers of different sizes	Kg	4	78.00	312.00
A	A. Sub total				14,491.05
B	B. Stock, Storage & Insurance @ 3% of A				434.73
C	Sub Total (C=A+B)				14,925.78
D	T&P @ 2% of C				298.52
E	Contingency @ 3% of C				447.77
F	Transportation @ 7.5% of C				1,119.43
G	Erection Charges @ 10%				1,492.58
H	Total				18,284.08

PART - 2

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
II	Construction of 11/0.4 KV, 250KVA DSS along with DP for DSS S/S = 1 No				
1	160x160 mm WPB POLE(11 Mtr. Long)	No	2	26517.00	53,034.00
2	Top channel GI 100x50x6 mm (2800 mm)Long(9.56 kg/Mtr.,2 Nos.)	Kg	53.536	76.00	4,068.74
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	76.00	301.32
4	MU channel GI 75x40x4.8 mm(2800 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	39.984	76.00	3,038.78
5	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	39.984	76.00	3,038.78

6	AB witch side support channel 75x40x4.8 mm GI channel (330 mm Long)(7.14 kg/mtr,2 Nos.)	Kg	4.71	76.00	357.96
7	AB swich operating Pipe channel support75x40x4.8 mm GI channel(625 mm Long)(7.14 kg/mtr,2 Nos.)	Kg	4.46	76.00	338.96
8	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(2800 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	39.984	76.00	3,038.78
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	LT DB mounting angle 50x50x6 mm GI (2000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	18	76.00	1,368.00
12	Back clamp for danger plate25x3 mm ,flat 0.59 Kg/Mtr,flat of 0.510 Mtr. Length 2 Nos	Kg	0.6	76.00	45.60
13	50x6 mm GI Flat for earthing(Detail as per estimate)	Kg	154.82	76.00	11,766.32
14	250 KvA ,11/0.4 KV Transformer with Tap changer BIS Energy Level-II	No	1	268450.00	2,68,450.00
15	LT Distrubution Box with MCCB, Aluminim Busbar for 3 Bay with kit kat Fuse for 250 KVA S/S.	No	1	48000.00	48,000.00
16	55 sq. mm All Alloy conductor-PVC insulated	Km	0.05	56000.00	2,800.00
17	1Cx400 sq. mm LT XLPE cable	Mtr	40	479.00	19,160.00
18	11 KV AB switch (200 Amp, 3 pole)	Set	1	7350.00	7,350.00
19	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	6120.00	6,120.00
20	PG Clamp for 55 sq. mm AAAC	No	6	480.00	2,880.00
21	11 KV Disc insulator polymer type 70 KN	No	3	1150.00	3,450.00
22	11 KV H/W fitting polymer type	Pair	3	350.00	1,050.00
23	11 KV LA (12KV,10 KA)	No	3	3550.00	10,650.00
24	11 KV Pin Insulator polymer type	No	3	200.00	600.00
25	HT Stay Set (Complete)	Set	2	1050.00	2,100.00
26	HT Stay Insulator	No.	2	50.00	100.00
27	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	125.00	250.00
28	7/10 SWG Stay Wire	KG	30	75.00	2,250.00
29	GI Pipe for earthing 40mm dia 3mtr long	No	7	1050.00	7,350.00
30	GI Nut, Bolt & washers of different sizes	Kg	25	78.00	1,950.00
31	GI barbed wire/Anticlimbing device	No	6	80.00	480.00
32	Danger plate	Kg	2	80.00	160.00
33	Name Plate	Kg	1	80.00	80.00
34	Structure Numbering and marking	No	0	2407.00	-
35	Yellow colour paint for Background	Ltr	2	220.00	440.00
36	Black colour paint for numbering	Ltr	1	220.00	220.00
A	A. Sub total				4,68,043.61
B	B. Stock, Storage & Insurance @ 3% of A				14,041.31
C	Sub Total (C=A+B)				4,82,084.92
D	T&P @ 2% of C				9,641.70
E	Contingency @ 3% of C				14,462.55
F	Transportation @ 7.5% of C				36,156.37
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				16,556.42
H	Erection Charges @ 10% for other materials				14,611.52
I	Total				5,73,513.48

37	Concreting Ratio 1:1::5:3 (500mmX500mmX1800mm)= 0.450Cu.Mtr	Cum	0.9	6500.00	5,850.00
38	Concreting Ratio 1:1::5:3 (500mmX500mmX450mm)= 0.113Cu.Mtr	Cum	0.226	6500.00	1,469.00
39	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
40	Installation of Earthpit ,charcoal,salt, etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No	7	2407.00	16,849.00
41	LT DB foundation	No	1	3000.00	3,000.00
42	DTR Foundation work	Ls	1	25000.00	25,000.00
43	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
					1,28,668.00
				Sub total Rs	7,02,181.48
III	Construction of LT 3ph 5W LT Line over 9 Mtr long 100x116mm RS Joist using 3x95+1x70+1x16 sqmm ABC= 0.5 KM				
1	9 Mtr. Long 300 KG PSC Pole	No	15	3000.00	45,000.00
2	LT stay set complete	Set	6	520.00	3,120.00
3	7/12 SWG GI stay wire, Grade-2	Kg	72	75.00	5,400.00
4	LT stay clamp (50 x 6 mm GI, 365mm (2.16Kg/Mtr.) (Each 0.861 Kg)	Kg	10	75.00	750.00
5	LT stay set Insulator	No	6	30.00	180.00
6	LT Accessories with Eye Hook and Clamp				
7	Pole clamp for Eye hook for (XLPE Aerial Bunch Cable) by 50x6 mm GI, 365mm (2.56 Kg/Mtr.) (Each 0.861 Kg.)	Kg	34.44	75.00	2,583.00
8	Eye hook for XLPE Aerial Bunch Cable (25x70 sqmm)	No	10	60.00	600.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	10	65.00	650.00
10	Suspension clamp with Eye Hook for ABC (25x70 sqmm)	Pair	10	340.00	3,400.00
11	Nuts & Bolts	Kg	15	78.00	1,170.00
12	Pipe Earthing	No	3	1050.00	3,150.00
13	Coil Earthing	No	12	166.00	1,992.00
14	No-8 GI wire (Dia-4.6mm)	Kg	8.7	75.00	652.50
	LT XLPE AERIAL BUNCH CABLE (AB Cable)				
15	3x95+1x70+1x16 mm2 LT XLPE Aerial Bunch Cable	K.M	0.525	243000.00	1,27,575.00
16	Insulated piercing connector, Type-A main 50 to 150 sq.mm & 80 to 150 sq.mm	No.	20	98.62	1,972.40
	Pole numbering & marking				
17	Yellow colour paint for Background	Ltr.	1	220.00	220.00
18	Black colour paint for numbering	Ltr.	0.5	220.00	110.00
19	Danger plate (LT)	No	15	80.00	1,200.00
A	TOTAL MATERIAL COST (FOR-2020-21)				1,99,724.90
B	Stock, Storage & Insurance @ 3% of A				5,991.75

C				Sub Total (C=A+B)	2,05,716.65
D				Contingency @3% of C	6,171.50
E				T & P 2% of C	4,114.33
F				Transportation @ 7.5% of C	15,428.75
G				Erection Charges for PSC Pole @ 20%	9,270.00
H				Erection Charges of DTR and Joist Poles @ 5%	-
I				Erection Charges of other @ 10%	15,936.66
J				Sub Total Rs.	2,56,637.89

Civil and Services Works (As per Technical Specification)

20	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	5.625	8446.00	47,508.75
21	Fixing of stay set with 0.5cum Cement concrete foundation 1:3:6 size (900mmX600mmX900mm) using 40mm BHG metal with all labour and material except stay set, stay wire, stay insulator	No	6	2000.00	12,000.00
22	Installation of Earhpit ,charcoal,salt, etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No	3	2407.00	7,221.00
K				Total Services Cost	66,729.75
L				Total Material + Services Cost (J+K)	3,23,367.64

- IV**
- 1. Construction of New LT UG Line in 4C x 6mm² LT UG Cable of length -180mtr from nearest pole to meter of different block.**
 - 2. Construction of new LT UG line 4C x 16mm² LT UG Cable of length- 120mtr from nearest pole to meter of Block-4 & 5**

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
1	Cable 1.1 KV AI. 4C x 6 SQMM XLPE Arm (Copper)	Mtr	180	244.76	44,057.52
2	Cable 1.1 KV AI. 4C x 16 SQMM XLPE Arm (Alluminium)	Mtr	120	109.42	13,130.52
3	Supply of HDPE PE 80-PNB Pipe of 25mm diameter	Mtr	180	51.14	9,205.56
4	Supply of HDPE PE 80-PNB Pipe of 40mm diameter	Mtr	120	74.53	8,943.70
A				Total cost of Material	75,337.30
B				Stock, Storage & Insurance @ 3% of A	2,260.12
C				Sub Total (C=A+B)	77,597.41
D				Contingency @3% of C	2,327.92
E				T & P 2% of C	1,551.95
F				Transportation @ 7.5% of C	5,819.81
G				Erection Charges for PSC Pole @ 20%	-
H				Erection Charges of DTR and Joist Poles @ 5%	-
I				Erection Charges of other @ 10%	7,759.74
J				Sub Total Rs.	95,056.83

Civil Services

	Civil works with supply of all materials like cement, MS ton rod, bricks, course & fine aggregates and labour, T&P, etc for A.G Cable trench				
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5	Earth work excavation of soil (0.8mtr, width X 0.5mtr, depth)				
6	Earth work excavation of soil	Cum	35	201.62	7,056.70
7	Earth work excavation of hard rock	Cum	15	884.35	13,265.25
8	Shifting of excavation soil to a lead distance of 10Km	Cum	30	171.55	5,146.50
9	Filling with fine river sand after laying of cable inside the trench	Cum	20	479.74	9,594.80
10	Back filling with excavation soil outside and above the trench	Cum	30	30.28	908.40
K	Total Services Cost				35,971.65
	Total Material + Services Cost (J+K)				1,31,028.48
V	DISMANTALLING OF EXISTING 11 KV, 34 SQ. MM CONDUCTOR				
1	Dismantalling of RS Joist Pole	Nos	2	1350.00	2,700.00
2	Dismantalling of 63 KVA Transformer	Nos	1	1800.00	1,800.00
3	Dismantalling of 34/55 sq. mm AAA conductor	Mtr	45	6.30	283.50
4	Dismantalling of AB switch	Nos	1	1128.63	1,128.63
5	Dismantalling of HG Fuse	Nos	1	1128.63	1,128.63
					7,040.76
	Total Rs.				11,81,902.44
	Cess @1%				11,819.02
	Total Estimated Cost				11,93,721.46
	Total Estimated Cost in Figures				11,93,721.00
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 @12%.

Signature of Tenderer with seal

Sd/-

Asst. Project Manager (Elect)

Sd/-

Asst. Project Manager (Elect) (Hqr)

Sd/-

Project Manager(Elect.)