

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 :- 03 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO DHAULI HEIGHT RESIDENTIAL PROJECT, TOMANDO, BHUBANESWAR.

BID REF NO :- 72/PM/ELECT/OPHWC/2022-23

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	I.11 KV OH LINE OF LENGTH 30 MTR. WITH 55 SQ. MM AAAC CONDUCTOR. I.LT-OFF ARRANGEMENT FOR 11 KV LINE WITH EXISTING POLE.				
1	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 2 no's channel required =(2x9.56x1.2)	Kg	22.944	88.50	2030.54
2	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required	Kg	2.6432	88.50	233.92
3	11 KV pin insulator polymer	Set	2	236.00	472.00
4	H W fitting(B&S) 70KN, 3Bolt	No.	3	413.00	1239.00
5	Disc insulator (B&S) 70 KN polymer	No.	3	1357.00	4071.00
6	PG Clamp for 100 sq.mm AAA conductor	No.	3	684.40	2053.20
7	PG Clamp for 55 sq.mm AAA conductor	No.	3	566.40	1699.20
8	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	147.50	295.00
9	HT Stay Set (Complete)	Set	2	1239.00	2,478.00
10	HT Stay Insulator	No.	2	59.00	118.00
11	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	88.50	2,655.00
12	GI Nut , Bolt & Washer of different sizes (13.718 Kg with AB switch)	Kg	7.433	92.04	684.13
13	55 sq. mm AAAC	Km	0.0927	35400.00	3281.58
A	A. Sub total				21,310.58
B	B. Stock, Storage & Insurance @ 3% of A				639.32
C	Sub Total (C=A+B)				21,949.90
D	T&P @ 2% of C				439.00
E	Contingency @ 3% of C				658.50
F	Transportation @ 7.5% of C				1,646.24
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				1,623.75
H	Total				26,317.39

14	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 500X500X800 mm.)	No	2	2250.00	4,500.00
Total Material + Services Cost (J+K)					30,817.39
II	Installation of 1 No. 500 KVA Plinth mounted S/S.				
Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53,033.90
2	Top channel GI 100x50x6 mm (9.56 kg/Mtr.,4 Nos.)Each channel length 1.2 Mtr.,4 Nos. channel required(4x9.56x3)	Kg	57.36	88.50	5,076.36
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	88.50	350.88
4	Double Pole Belting Channel 75X40X 4.8mm., 7.14KG/Mtr., each channel length 3.0 Mtr., 2 no's channel required =(6x7.14x4.3)	Kg	42.84	88.50	3,791.34
5	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 4.927 mtr., 6 nos angle required = (6*4.5*4.927)	Kg	31.608	88.50	2,797.31
6	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	88.50	3,791.34
7	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	88.50	592.07
8	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)	Kg	5.71	88.50	505.34
9	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	88.50	3,791.34
10	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	88.50	1,023.95
11	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	88.50	1,021.29
12	Back clamp for danger plate25x3 mm ,flat 0.59 Kg/Mtr,flat of 0.510 Mtr. Length 2 Nos	Kg	0.601	88.50	53.19
13	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	154.82	88.50	13,701.57
14	500 KVA , 11/0.4 KV (CU) Transformer with Tap Changer BIS Energy Level-II	No	1	685777.00	685,777.00
15	LT Distrubution Box with MCCB, Aluminim Busbar for 3 Bay with kit kat Fuse for 500 KVA S/S.	No	1	114884.80	114,884.80
16	55 sq. mm All Alloy conductor-PVC insulated	Km	0.05	56000.00	2,800.00
17	1Cx400 sq. mm LT XLPE cable(Un Armoured)	Mtr	180	359.66	64,738.80
18	4Cx35 sq. mm LT XLPE cable	Mtr	0	213.38	-
19	11 KV AB switch (200 Amp, 3 pole)	Set	1	8673.00	8,673.00
20	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7221.60	7,221.60
21	PG Clamp for 55 sq. mm AAAC	No	6	566.40	3,398.40

22	Disc insulator (B&S) 70 KN polymer	No.	3	1357.00	4071.00
23	H W fitting(B&S) 70KN, 3Bolt	No.	3	413.00	1239.00
24	11 KV LA (11KV,10 KA)(station class, class-2)	No	3	4189.00	12,567.00
25	11 KV pin insulator polymer	Set	3	236.00	708.00
26	HT Stay Set (Complete)	Set	2	1239.00	2,478.00
27	HT Stay Insulator	No.	2	59.00	118.00
28	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	147.50	295.00
29	7/10 SWG Stay Wire	KG	30	88.50	2,655.00
30	GI Pipe for earthing 40mm dia 3mtr long	No	7	1239.00	8,673.00
31	GI Nut, Bolt & washers of different sizes	Kg	25	92.04	2,301.00
32	GI barbed wire/Anticlimbing device	No	6	94.40	566.40
33	Danger plate	Kg	2	94.40	188.80
34	Name Plate	No	1	94.40	94.40
35	Structure Numbering and marking				-
36	Yellow colour paint for Background	Ltr	2	259.60	519.20
37	Black colour paint for numbering	Ltr	1	259.60	259.60
A	A. Sub total				1,013,756.87
B	B. Stock, Storage & Insurance @ 3% of A				30,412.71
C	Sub Total (C=A+B)				1,044,169.57
D	T&P @ 2% of C				20,883.39
E	Contingency @ 3% of C				31,325.09
F	Transportation @ 7.5% of C				78,312.72
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				38,048.76
H	Erection Charges @ 10% for other materials				27,748.16
I	Total				1,240,487.69
38	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
39	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1,469.00
40	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
41	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
42	LT DB Plinth	No	1	3000.00	3,000.00
43	DTR Plinth	No	1	25000.00	25,000.00
44	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
					128,668.00
	Sub total Rs				1,369,155.69
III	Laying of LT 4 core x150 Sq. mm LT UG XLPE cable length 600 Mtr. in open trench method (3 Run for service with 1 run spare) Installation of 3 Nos. Multimeter Panel.				
	Length of 11 KV, 3C, 95 sq. mm cable(Open trench)	Km	0.035		
1	Cable of 1.1 KV AL 4Cx150 sq. mm XLPE Arm	Mtr	600	732.12	439,272.00

2	LT metering panel for 20 Nos. energy meter with accessories(250 I/C-MCCB and 20 outgoing-32A)MMP-1	Nos	3	212000.00	636,000.00
3	Supply of HDPE PE 80-PN8 pipe of 110mm diameter(from LTDB to Feeder Pillar)	Km	0.58	357600.00	207,408.00
A	A. Sub total				1,282,680.00
	Civil works with supply of all materials like cement, MS ton rod, bricks, course & fine aggregates and labour, T&P, etc for UG Cable trench				
4	Earth work excavation of soil(1 Mtr. Width x 1 mtr. Depth)				
5	Earth work excavation of soil	cum	101.5	700.00	71,050.00
6	Earth work excavation of hard rock	Cum	43.5	1720.00	74,820.00
7	Back filling with excavation soil outside and above the trench	Cum	145	202.00	29,290.00
	SubTotal				175,160.00
A	A. Sub total				1,282,680.00
B	B. Stock, Storage & Insurance @ 3% of A				38,480.40
C	Sub Total (C=A+B)				1,321,160.40
D	T&P @ 2% of C				26,423.21
E	Contingency @ 3% of C				39,634.81
F	Transportation @ 7.5% of C				99,087.03
G	Erection Charges @ 10%				132,116.04
H	Total				1,618,421.49
I	Sub Total(Erection+civil)				1,793,581.49
	Sub Total Rs.				3,193,554.56
	Cess @ 1%				31,935.55
	Total Estimated Cost				3,225,490.11
	Total Estimated Cost in Figures				3,225,490.00
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.)