

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
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[Electrical Division]
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PRICE BID FOR THE WORK UNDER SL. NO :- 02 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO SDPO OFFICE-CUM-RESIDENCE AT NAYAGARH IN THE DIST. OF NAYAGARH.

BID REF NO :- 30/PM/ELECT/OPHWC/2023-24

NAME & ADDRESS OF THE FIRM	
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SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	INSTALLATION OF 25 KVA S/S.				
1	WPB GI Pole 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
6	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	76.00	4359.36
7	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.54	97.50	345.15
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 100x50x6 mm channel(3000 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	57.36	76.00	4359.36
16	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
17	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	27	76.00	2052.00
18	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	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	25 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	69940.00	69940.00
22	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
23	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
24	4Cx95 sq. mm LT XLPE cable	Mtr	15	213.38	3200.70
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 Insulator	No.	2	65.00	130.00
34	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
35	7/10 SWG Stay Wire	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
	Structure Numbering and marking				
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				2,50,728.25
B	B. Stock, Storage & Insurance @ 3% of A				7,521.85
C	Sub Total (C=A+B)				2,58,250.10
D	T&P @ 2% of C				5,165.00
E	Contingency @ 3% of C				7,747.50
F	Transportation @ 7.5% of C				19,368.76
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				11,215.57
J	Total				3,08,080.09
45	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00

46	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00
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 4Cx95 sq.mm LT XLPE cable	Mtr.	15	46.80	702.00
50	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
51	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.345 Cu. Mtr.	Cu. Mtr	0.375	6500.00	2,437.50
					94,858.50
	Sub total Rs				4,02,938.59
I	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.2 KM .				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53033.90
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	91.776	76.00	6974.98
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	21.1456	97.50	2061.70
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	23.40288	76.00	1778.62
5	Danger plate	No	2	104.00	208.00
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	0.6018	97.50	58.68
7	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
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	2.4072	97.50	234.70
9	11 KV pin insulator polymer	Set	8	260.00	2080.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	12	455.00	5460.00
11	Disc insulator (B&S) 70 KN polymer	No.	12	1495.00	17940.00
12	Earthing of Support (Coil Type)	EA	2	215.80	431.60
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.524	97.50	51.09
14	PG Clamp for 55 sq. mm AAAC	No	12	624.00	7488.00
15	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	4	162.50	650.00

16	HT Stay Set (Complete)	Set	4	1365.00	5460.00
17	HT Stay Insulator	No.	4	65.00	260.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	60	97.50	5850.00
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	14.866	101.40	1507.41
20	Yellow colour paint for Background	Ltr	4	216.00	864.00
21	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				1,13,302.67
B	B. Stock, Storage & Insurance @ 3% of A				3,399.08
C	Sub Total (C=A+B)				1,16,701.75
D	T&P @ 2% of C				2,334.04
E	Contingency @ 3% of C				3,501.05
F	Transportation @ 7.5% of C				8,752.63
		Erection Charges @ 5% on poles			2,731.25
G	Erection Charges @ 10%				4,949.02
H	Total				1,38,969.74
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	4	2250.00	9000.00
23	Concreting Ratio 1:1:5:3(500 mmx500mmx2200 mm)=0.55 Cu. Mtr.	Cum	0.9	6500.00	5850.00
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.225	6500.00	1462.50
	Total Material + Services Cost (J+K)				1,55,282.24
B	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(13 Mtr. Long ,30.44 Kg/Mtr.)	No	3	26516.95	79550.85
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	Danger plate	No	3	104.00	312.00
5	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.9	97.50	87.75
6	GI barbed wire/Anticlimbing device	No	9	104.00	936.00
7	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	3.61	97.50	351.98
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	9	260.00	2340.00
9	Earthing of Support (Coil Type)	No	5	215.80	1079.00

10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.79	97.50	77.03
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	4.35	101.40	441.09
12	70 sq. mm AAAC Covered conductor	Km	0.618	185220.00	114465.96
13	Yellow colour paint for Background	Ltr	6	216.00	1296.00
14	Black colour paint for numbering	Ltr	3	286.00	858.00
A	A. Sub total				2,05,539.65
B	B. Stock, Storage & Insurance @ 3% of A				6,166.19
C	Sub Total (C=A+B)				2,11,705.84
D	T&P @ 2% of C				4,234.12
E	Contingency @ 3% of C				6,351.18
F	Transportation @ 7.5% of C				15,877.94
		Erection Charges @ 5% on poles			4,096.87
G	Erection Charges @ 10%				12,976.85
H	Total				2,55,242.79
15	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	1.35	6500.00	8775.00
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.3375	6500.00	2193.75
	Total Material + Services Cost (J+K)				2,66,211.54
III	11 KV LINE PROTECTING GUARDING FOR ROAD CROSSING-1 SPAN				
1	Guarding Channel 75X40X4.8 mm, 7.14 KG/Mtr., each channel length 2.2 mtr., 4 no's channel required =(4x7.14x1.2)	Kg	62.832	76.00	4775.23
2	No-6 GI wire (0.192 Kg/Mtr.)for main string	Kg	15.36	97.50	1497.60
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	3.275	97.50	319.31
5	Eye Bolt(236 mm,16 mm dia,1.577 Kg/mtr.)	No	4	78.00	312.00
6	GI Pipe earthing 40 mm dia 3 Mtr. Long	No	2	1365.00	2730.00
7	50x6mm GI Flat for earthing, 2.36kg/mtr.	Kg	50.504	97.50	4924.14
A	TOTAL MATERIAL COST (FOR-2020-21)				14,558.28
B	Stock, Storage & Insurance @ 3% of A				436.75
C	Sub Total (C=A+B)				14,995.03
D	Contingency @3% of C				449.85
E	T & P 2% of C				299.90
F	Transportation @ 7.5% of C				1,124.63
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,218.31
J	Sub Total Rs.				18,087.72

9	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	2	3700.00	7,400.00
	Total Rs.				25,487.72
	Total Estimated Cost				8,49,920.09
	Total Estimated Cost in Figures				8,49,920.00
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.)