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 :- 02 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO DARPANARAYANAPUR OUT POST IN THE DISTRICT OF NAYAGARH.

BID REF NO :- 31/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 0.23 KM .				
A	11 KV CUT POINT WITH 180 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	45.89	76.00	3487.64
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.57	97.50	1030.58
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	11.7	76.00	889.20
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	0.3	97.50	29.25
7	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.21	97.50	117.98
9	11 KV pin insulator polymer	Set	6	260.00	1560.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	9	455.00	4095.00
11	Disc insulator (B&S) 70 KN polymer	No.	9	1495.00	13455.00
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	0.26	97.50	25.35
14	PG Clamp for 55 sq. mm AAAC	No	9	624.00	5616.00
15	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	5.325	101.40	539.96
16	Yellow colour paint for Background	Ltr	2	216.00	432.00
17	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				61,713.75
B	B. Stock, Storage & Insurance @ 3% of A				1,851.41
C	Sub Total (C=A+B)				63,565.16
D	T&P @ 2% of C				1,271.30

E				Contigency @ 3% of C	1,906.95
F				Transportation @ 7.5% of C	4,767.39
		Erection Charges @ 5% on poles			1,527.54
G				Erection Charges @ 10%	3,301.42
H				Total	76,339.76
18	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
19	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)	79,996.01
B	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
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	3	104.00	312.00
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	59,795.38
B				B. Stock, Storage & Insurance @ 3% of A	1,793.86
C				Sub Total (C=A+B)	61,589.24
D				T&P @ 2% of C	1,231.78
E				Contigency @ 3% of C	1,847.68
F				Transportation @ 7.5% of C	4,619.19

		Erection Charges @ 5% on poles			1,527.54
G				Erection Charges @ 10%	2,474.51
H				Total	73,289.94
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)	81,446.19
C	**11 KV PIN POINTS WITH WPB**				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	4	29661.00	118644.00
2	11 KV V cross arm	No	4	1053.00	4212.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	4	195.00	780.00
4	Danger plate	No	4	104.00	416.00
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	1.2	97.50	117.00
6	GI barbed wire/Anticlimbing device	No	12	104.00	1248.00
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	4.81	97.50	468.98
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	12	260.00	3120.00
9	Earthing of Support (Coil Type)	No	4	215.80	863.20
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.05	97.50	102.38
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	5.8	101.40	588.12
12	55 sq. mm AAAC	Km	0.7107	39000.00	27717.30
13	Yellow colour paint for Background	Ltr	8	216.00	1728.00
14	Black colour paint for numbering	Ltr	4	286.00	1144.00
A				A. Sub total	1,61,148.97
B				B. Stock, Storage & Insurance @ 3% of A	4,834.47
C				Sub Total (C=A+B)	1,65,983.44
D				T&P @ 2% of C	3,319.67
E				Contigency @ 3% of C	4,979.50
F				Transportation @ 7.5% of C	12,448.76
		Erection Charges @ 5% on poles			6,110.17
G				Erection Charges @ 10%	4,378.07
H				Total	1,97,219.61
15	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	1.8	6500.00	11700.00

16	**Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.**	**Cum**	**0.45**	**6500.00**	**2925.00**
	Total Material + Services Cost (J+K)				**2,11,844.61**
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
2	9 Mtr Long 300 KG PSC Pole(For raising of LT ABC)	No	1	3900.00	3900.00
3	Pole Clamp for Eye Hook for XLPE Areial bunched cable	Pair	2	260.00	520.00
4	Eye Hook for XLPE Areial Bunched Cable	No	2	78.00	156.00
5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	84.50	169.00
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	0	76.00	0.00
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	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	4Cx35 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**				**2,52,217.41**
B	**B. Stock, Storage & Insurance @ 3% of A**				**7,566.52**
C	**Sub Total (C=A+B)**				**2,59,783.93**
D	**T&P @ 2% of C**				**5,195.68**
E	**Contigency @ 3% of C**				**7,793.52**
F	**Transportation @ 7.5% of C**				**19,483.79**
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**				**803.40**
I	**Erection Charges @ 10% for other materials**				**10,967.26**
J	**Total**				**3,10,360.74**
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	**4,05,219.24**
III	**Construction of LT Line using 4Cx10 sq. mm Armoured aluminium cable XLPE insulated- -0.06 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	12	97.50	1,170.00
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 Areial bunched cable	Pair	3	260.00	780.00
8	Eye Hook for XLPE Areial 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	4Cx10 sq. mm Armoured aluminium cable- XLPE insulated	Mtr	63	100.33	6,320.79
12	4 way service Distribution Box with kitkat fuse and aluminium Busbar	No	1	2873.00	2,873.00
13	Insulated Piercing connector ,Type-B main 25-150 sq. mm & Tap-6 to 35 sq. mm	No	1	62.13	62.13
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	0.6	97.5	58.50
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	2.41	97.5	234.98
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**	**23,854.49**
B				**Stock, Storage & Insurance @ 3% of A**	715.63
C				**Sub Total (C=A+B)**	**24,570.12**
D				**Contingency @3% of C**	**737.10**
E				**T & P 2% of C**	**491.40**
F				**Transportation @ 7.5% of C**	**1,842.76**
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%**	1,444.72
J				**Sub Total Rs.**	**30,692.90**
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)	**37,817.90**
	Total Estimated Cost				**8,16,323.96**
	Total Estimated Cost in Figures				**8,16,324.00**
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.)