

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 :- 01 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 1 NO. NEW 120 MEN BARRACK AND 2 NOS. EXISTING 120 MEN BARRACK AT 6TH IRBN., NALIPADA, KHURDA IN THE DISTRICT OF KHURDA.

BID REF NO :- 103/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.
PART-A					
I	CONSTRUCTION OF 11 KV LINE .				
A	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	45.884	76.00	3487.18
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	0.3009	97.50	29.34
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,3 Nos.,required for each support	No	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	55 Sq. mm AAAC	Km	0.03	39000.00	1170.00
13	Earthing of Support (Coil Type)	No	1	215.80	215.80
14	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
15	PG Clamp for 55 sq. mm AAA Conductor	No	6	624.00	3744.00
16	HT Stay Set (Complete)	Set	2	1365.00	2730.00
17	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
18	HT Stay Insulator	No.	2	65.00	130.00
19	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00

20	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.453	101.40	755.73
21	Yellow colour paint for Background	Ltr	2	216.00	432.00
22	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				60,967.11
B	B. Stock, Storage & Insurance @ 3% of A				1,829.01
C	Sub Total (C=A+B)				62,796.12
D	T&P @ 2% of C				1,130.02
E	Contingency @ 3% of C				1,883.88
F	Transportation @ 7.5% of C				4,709.71
	Erection Charges @ 5% on poles				1,527.54
G	Erection Charges @ 10%				2,596.02
H	Total				74,643.30
23	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 excvaton, 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
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	0.45	6500.00	2925.00
25	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)				82,799.55
II	INSTALLATION OF 100 KVA S/S				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
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 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 bunched Cable	No	2	84.50	169.00
6	Top Channel GI 100X50X6mm,3000 mm Long) 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	57.36	76.00	4,359.36
7	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
8	M.U Channel GI 75x40x4.8 mm (3000 mm long)(7.14Kg./Mtr., 2 No's.)	Kg	42.84	76.00	3,255.84
9	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3,255.84
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	LTDB Mounting Angle 50 X 50 X 6MM GI (1000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x1x4.5 Kg)	Kg	9	76.00	684.00
20	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For L.A and 2.5 Mtr for raising, 11 Mtr. For AB Switch ,2.8 Mtr. for HG Fuse, 5x2 Mtr. For DTR neutral,(13-4.5)mtr. For DTR Body, 0.500 Mtr. For LTDB & AB switch operating handle, 3 Mtr. for fencing.)	Kg	154.816	97.50	15094.56
21	100 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	152100.00	152100.00
22	LT Distribution Box with MCCB, Aluminium Busbar of 2 Bay with kit kat fuse for 100 KVA S/S	No	1	31744.70	31744.70
23	55mm ² All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Mtr	50	55.24	2762.00
24	4 Cx150 mm ² LT XLPE Cable(Armoured) - FOR 100 KVA Trf.	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	Disc insulator (B&S)70 KN polymer	No	3	1495.00	4485.00
29	H W fitting (B&S)70KN(3bolted)	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				365,458.75
B	B. Stock, Storage & Insurance @ 3% of A				10,963.76
C	Sub Total (C=A+B)				376,422.51
D	T&P @ 2% of C				6,951.12
E	Contingency @ 3% of C				11,292.68

F	Transportation @ 7.5% of C				28,231.69
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				10888.23
H	Erection Charges @ 20% on PSC Poles				803.40
I	Erection Charges @ 10% for other materials				12,577.09
J	Total				447,166.72
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	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)=0.375 Cu. Mtr.	Cum	0.375	6500.00	2437.50
					95,236.50
	Sub total Rs				542,403.22
III	Construction of LT Line using 3X95+1X70+1x16 sq. mm LT AB Cable- -0.35 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	14	3900.00	54,600.00
2	LT stay set complete	Set	6	676.00	4,056.00
3	7/12 SWG GI stay wire, Grade-2	Kg	72	97.50	7,020.00
4	LT stay clamp	Pair	6	143.00	858.00
5	LT stay set Insulator	No	6	39.00	234.00
6	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	18	260.00	4,680.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	6	78.00	468.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25-70 sqmm)	No	6	84.50	507.00
	Suspension Clamp with EYE hook for ABC	No	12	442.00	5,304.00
10	3x95+ 1x70+ 1 x16 mm2 (LT AB Cable)	Mtr	367.5	315.90	116,093.25
11	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No	5	113.03	565.15
12	Coil Earthing	No	14	215.80	3,021.20
13	No-8 GI wire (Dia-4.6mm)	Kg	3.666	97.50	357.44

14	Danger plate (LT)	No	14	104.00	1,456.00
15	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
16	GI barbed wire/Anticlimbing device 3 kg per support	Kg	42	104	4368.00
17	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	16.83	97.5	1640.93
18	GI Nut, Bolt & washers of different sizes	Kg	7	101.40	709.80
19	Yellow colour paint for Background	Ltr	28	216.00	6,048.00
20	Black paint	Ltr	14	286.00	4,004.00
A	TOTAL MATERIAL COST				216,401.24
B	Stock, Storage & Insurance @ 3% of A				6,492.04
C	Sub Total (C=A+B)				222,893.27
D	Contingency @3% of C				6,686.80
E	T & P 2% of C				4,207.26
F	Transportation @ 7.5% of C				16,717.00
G	Erection Charges for PSC Pole @ 20%				11,247.60
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				15,412.60
J	Sub Total Rs.				277,164.53
Civil and Services Works (As per Technical Specification)					
21	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	6	2250.00	13500.00
22	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	5.25	6500.00	34,125.00
K	Total Services Cost				47,625.00
	Total Material + Services Cost (J+K)				324,789.53
	Total Estimated Cost				949,992.29
	Total Estimated Cost in Figures				949,992.00
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/-
D.M (Elect) I/C

Sd/-
Project Manager(Elect.)