

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 AMA BUS STAND AT DANDILO UNDER BIRIDI BLOCK IN THE DISTRICT OF JAGATSINGHPUR.

BID REF NO :- 22/PM/ELECT/OPHWC/2024-25

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	11 KV LINE				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	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
2	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	97.50	1030.85
3	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
4	11 KV pin insulator polymer	Set	8	260.00	2080.00
5	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
6	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
7	PG Clamp for 55 sq. mm AAAC	EA	6	624.00	3744.00
8	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
9	HT Stay Set (Complete)(as per site requirement)	Set	4	1365.00	5460.00
10	HT Stay Insulator(as per site requirement)	No.	4	65.00	260.00
11	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
12	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	14.866	101.40	1507.41
A	A. Sub total				33,409.06
B	B. Stock, Storage & Insurance @ 3% of A				1,002.27
C	Sub Total (C=A+B)				34,411.33
D	T&P @ 2% of C				688.23
E	Contingency @ 3% of C				1,032.34
F	Transportation @ 7.5% of C				2,580.85
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				2,517.22
H	Total				41,229.97

13	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 excavation, 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
14	Concreting ratio 1:1.5:3 (500mmX500mmX2200mm) = 0.55Cu.mtr	Cu.mtr	0.9	6500.00	5850.00
15	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cu.mtr	0.225	6500.00	1462.50
	Total Material + Services Cost				57,542.47
B	11 KV PIN POINTS WITH WPB				
1	55 SQ. MM AAAC	Km	0.1236	39000.00	4820.40
A	A. Sub total				4,820.40
B	B. Stock, Storage & Insurance @ 3% of A				144.61
C	Sub Total (C=A+B)				4,965.01
D	T&P @ 2% of C				99.30
E	Contigency @ 3% of C				148.95
F	Transportation @ 7.5% of C				372.38
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				496.50
H	Total				6,082.14
II	INSTALLATION OF 100 KVA S/S USING EXISTING TRANSFORMER.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
2	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	76.00	4359.36
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
4	MU Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	76.00	3255.84
5	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
6	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
7	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
8	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
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	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
12	Transformer base suport channel 100x50x6 mm GI channel(515 mm Long,2 Nos.)(9.56 kg/mtr,2 Nos.)	Kg	9.85	76.00	748.60
13	Transformer Belting angle 50x50x6 mm GI (3000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	27	76.00	2052.00

14	Transformer Belting Support angle 50x50x6 mm GI 580 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	5.22	76.00	396.72
15	LT DB mounting angle 50x50x6 mm GI (1000 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	9	76.00	684.00
16	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
17	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 63 KVA S/S.	No	1	31744.00	31744.00
18	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
19	4Cx95 sq. mm LT XLPE cable	Mtr	15	824.01	12360.15
20	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
21	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
22	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
23	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
24	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
25	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
26	11 KV Pin Insulator polymer type	No	3	260.00	780.00
27	HT Stay Set (Complete)	Set	2	1365.00	2730.00
28	HT Stay Insulator	No.	2	65.00	130.00
29	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
30	7/10 SWG Stay Wire	KG	30	97.50	2925.00
31	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
32	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
33	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
34	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
35	Danger plate	Kg	2	104.00	208.00
36	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
37	Name Plate	No	1	104.00	104.00
	Structure Numbering and marking				
38	Yellow colour paint for Background	Ltr	2	216.00	432.00
39	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				2,08,612.47
B	B. Stock, Storage & Insurance @ 3% of A				6,258.37
C	Sub Total (C=A+B)				2,14,870.84
D	T&P @ 2% of C				4,050.23
E	Contingency @ 3% of C				6,446.13
F	Transportation @ 7.5% of C				16,115.31
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				3,055.08
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				12,490.42
J	Total				2,57,028.01
40	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
41	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00

42	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
43	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
44	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
					91,719.00
				Sub total Rs	3,48,747.01
III	Construction of LT Line using 3x50+1x35 sq. mm LT AB Cable- -0.20 Km.				
1	116X100 MM RS Joist Pole 11 Mtr. Long(23 Kg/Mtr.)	No	5	16445.00	82225.00
2	HT Stay Set (Complete)	Set	4	1365.00	5460.00
3	7/10 SWG Stay wire 15 Kg/stay	Kg	60	97.50	5850.00
4	HT Stay Insulator	No.	4	65.00	260.00
5	HT Stay Clamp(1.95 K.g/Pair)	Pair	4	162.50	650.00
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	16	78.00	1,248.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	16	84.50	1,352.00
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	2	442.00	884.00
11	3x50+1x35 sq. mm LT Aerial Bunched Cable	Mtr	210	169.00	35,490.00
12	Insulated Piercing connector ,type-B-main 25 to 150 sq. mm & Tap-6 to 35 sq. mm	No	3	62.13	186.39
13	GI Pipe Earthing (Each 5th pole to earth)	No	1	1365.00	1,365.00
14	Coil Earthing	No	4	215.80	863.20
15	No-8 GI wire (Dia-4.6mm) ,0.131 Kg/Mtr.-2 Mtr. For connecting pole to earth.	Kg	1.31	97.50	127.73
16	Danger plate (LT)	No	5	104.00	520.00
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	1.5	97.5	146.25
18	GI barbed wire/Anticlimbing device 3 kg per support	Kg	15	104	1560.00
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	6.02	97.5	586.95
20	GI Nut, Bolt & washers of different sizes	Kg	20	101.40	2,028.00
21	Yellow colour paint for Background	Ltr	10	216.00	2,160.00
22	Black paint	Ltr	5	286.00	1,430.00
A	TOTAL MATERIAL COST				1,49,072.52
B	Stock, Storage & Insurance @ 3% of A				4,472.18
C	Sub Total (C=A+B)				1,53,544.69
D	Contingency @3% of C				4,606.34
E	T & P 2% of C				2,791.05
F	Transportation @ 7.5% of C				11,515.85
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of Joist Poles @ 5%				4,234.00

I	Erection Charges of other @ 10%				5,486.06
J	Sub Total Rs.				1,82,177.99
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	4	2250	9000.00
24	Concreting Ratio 1:1::5:3 (500mmX500mmX1800mm)= 0.45 Cu.Mtr	Cu.Mtr	2.97	6500.00	19,305.00
25	Concreting Ratio 1:1::5:3 (500mmX500mmX450 mm)= 0.1125 Cu.Mtr	Cu.Mtr	0.742	6500.00	4,823.00
26	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	1	3700.00	3,700.00
K	Total Services Cost				36,828.00
	Total Material + Services Cost (J+K)				2,19,005.99
IV	Dismantling of existing 11 KV & LT Lines and Poles along with accessories (as per TPCODL estimate)	Ls	1	5295.86	5,295.86
	Total Rs.				6,36,673.47
	Cess @ 1%				6366.73
	Total Estimated Cost				6,43,040.21
	Total Estimated Cost in Figures				6,43,040.00
EXCESS	<input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick)	_____ %			
Quoted Amount in Figure					

Quoted Amount in word	
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N:B- The Estimated cost is exclusive of GST.

Signature of Tenderer with seal

**Sd/-
Asst. Project Manager (Elect)**

**Sd/-
Project Manager(Elect.)**

**Sd/-
DM I/C (Elect)**