

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 ADMINSTRATIVE-CUM-ACADEMIC BUILDING,100 MEN BARRACK, KITCHEN-CUM-DINING & TRANSIT MESS AT OSWALI, RAMACHANDI,PURI.

BID REF NO :- 23/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				
	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	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.	15	455.00	6825.00
11	Disc insulator (B&S) 70 KN polymer	No.	15	1495.00	22425.00
12	Earthing of Support (Coil Type)	No	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	15	624.00	9360.00
15	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	3	162.50	487.50
16	HT Stay Set (Complete)	Set	3	1365.00	4095.00
17	HT Stay Insulator	No.	3	65.00	195.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	45	97.50	4387.50
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	1,24,257.77
B				B. Stock, Storage & Insurance @ 3% of A	3,727.73
C				Sub Total (C=A+B)	1,27,985.50
D				T&P @ 2% of C	2370.91
E				Contingency @ 3% of C	3,839.57

F		Transportation @ 7.5% of C			9,598.91
		Erection Charges @ 5% on poles			3,055.08
G		Erection Charges @ 10%			5,744.39
H		Total			1,52,594.36
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 excavation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material .	No	3	2250.00	6750.00
23	Couping Ratio 1:1:5:3(500 mmx500mmx1800mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6500.00	1462.50
		Total Material + Services Cost (J+K)			1,66,656.86
B	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	6	29661.00	177966.00
2	11 KV V cross arm	No	6	1053.00	6318.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	6	195.00	1170.00
4	Danger plate	No	6	104.00	624.00
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	1.81	97.50	176.48
6	GI barbed wire/Anticlimbing device	No	18	104.00	1872.00
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	7.22	97.50	703.95
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	18	260.00	4680.00
9	Earthing of Support (Coil Type)	No	6	215.80	1294.80
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.57	97.50	153.08
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	8.7	101.40	882.18
12	55 sq. mm AAAC	Km	0.93	39000.00	36153.00
13	Yellow colour paint for Background	Ltr	12	216.00	2592.00
14	Black colour paint for numbering	Ltr	6	286.00	1716.00
A		A. Sub total			2,36,301.48
B		B. Stock, Storage & Insurance @ 3% of A			7,089.04
C		Sub Total (C=A+B)			2,43,390.52
D		T&P @ 2% of C			4,867.81
E		Contingency @ 3% of C			7,301.72
F		Transportation @ 7.5% of C			18,254.29
		Erection Charges @ 5% on poles			9,165.25
G		Erection Charges @ 10%			6,008.54
H		Total			2,88,988.13
15	Couping Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	2.7	6500.00	17550.00
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.675	6500.00	4387.50
		Total Material + Services Cost (J+K)			3,10,925.63

PART-II	Installation of 100 KVA 11/0.4KV sub station - 1 No.				
1	9 Mtr. long 300 Kg. PSC Pole (For DSS DP)	No	2	3900.00	7800.00
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	Pole clamp	No	14	104.00	1456.00
7	Top Pressure Channel 100x50x6mm channel each 3000 mm long,2 Nos(9.56 K.g/mtr)	K.g	57.36	76.00	4359.36
8	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
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	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
16	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
17	100 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	152100.00	152100.00
18	LT Distribution Box with MCCB, Aluminium Busbar of Single Bay with kit kat fuse for 100 KVA S/S	No	1	31744.70	31744.70
19	55mm ² All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Mtr	50	55.24	2762.00
20	4 Cx 150 mm ² LT XLPE Cable(Un-Armoured) - FOR 250 KVA Trf.	Mtr	15	824.01	12360.15
21	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
22	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
23	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
24	Disc insulator (B&S)70 KN polymer	No	3	1495.00	4485.00
25	H W fitting (B&S)70KN(3bolted)	Pair	3	455.00	1365.00
26	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
27	11 KV Pin Insulator polymer type	No	3	260.00	780.00
28	HT Stay Set (Complete)	Set	2	1365.00	2730.00
29	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
30	HT Stay Insulator	No.	2	65.00	130.00
31	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
32	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
33	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
34	GI barbed wire/Anticlimbing device	No	6	104.00	624.00

35	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
36	Danger plate	Kg	2	104.00	208.00
37	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
38	Name Plate	No	1	104.00	104.00
39	Yellow colour paint for Background	Ltr	2	216.00	432.00
40	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				3,04,580.23
B	B. Stock, Storage & Insurance @ 3% of A				9,137.41
C	Sub Total (C=A+B)				3,13,717.64
D	T&P @ 2% of C				5,697.03
E	Contingency @ 3% of C				9,411.53
F	Transportation @ 7.5% of C				23,528.82
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				7,833.15
H	Erection Charges @ 20% on PSC Poles				2,410.20
I	Erection Charges @ 10% for other materials				11,613.76
J	Total				3,74,212.13
41	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	1.125	6500.00	7312.50
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	Laying of 4Cx95 sq. mm LT XLPE cable	Mtr	15	72.00	1,080.00
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
46	DTR Plinth	No	1	25000.00	25000.00
					1,17,792.50
	Sub total Rs				4,92,004.63
II	SUPPLY AND LAYING OF 166 MTR. 1.1 KV 4 CX 95 SQ. MM XLPE UG CABLE WITH MULTIMETER PANEL AND LT FEEDER PILLAR				
	Supply of materials for 1.1 Kv, 4 Core, 95 sq. mm ,XLPE insulation armoured UG cable with accessories.				
a	Length of 11kV 3C, 95sqmm cable (open trench)	Mtr.	166		
1.1	Supply of 1.1 KV, 4 Core, 95sqmm, XLPE insulation armoured Aluminium UG cable	Mtr.	332.00	479.61	1,59,230.52
1.2	Supply of HDPE PE 80-PN8 pipe of 110mm diameter (for 95sqmm cable laying)	Mtr.	332	357.60	1,18,723.20
	Sub Total (Supply Portion) (in Rs.)				2,77,953.72
Erection Portion					
1	Laying, Commissioning, Testing of 1.1 KV, 4 core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method				

1.1	Laying, Commissioning, Testing of 1.1 KV, 4 core, 95sqmm, aluminium, XLPE insulation armoured Aluminium UG cable by open trench method.	Mtr.	332.00	46.80	15,537.60
1.2	Laying of 160mm dia PE 80-PN8, HDPE pipe inside open trench.	Mtr.	332.00	300.00	99,600.00
Sub Total (Erection Portion) (in Rs.)					1,15,137.60
A	Sub Total (Supply Portion)				2,77,953.72
B	Stock, Storage & Insurance @ 3 % of A				8,338.61
C	Sub Total (A+B)				2,86,292.33
D	Contingency @ 3 % of C				8,588.77
E	Tools & Plants Charges @ 2% of C (considered for earthing items)				
F	Transportation @ 7.5% of C				21,471.92
G	Erection Charges @ 10% of earthing items				
H	Total (C+D+E+F+G)				3,16,353.03
I	Sub Total (Erection Portion + Civil Portion)				1,15,137.60
J	Total Cost (H+I)				4,31,490.63
IV	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	30.72	97.50	2995.20
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	6.55	97.50	638.63
4	Eye Bolt(236 mm,16 mm dia,1.577 Kg/mtr.)	No	4	78.00	312.00
5	GI Pipe earthing 40 mm dia 3 Mtr. Long	No	2	1365.00	2730.00

6	50x6mm GI Flat for earthing, 2.36kg/mtr.	Kg	50.504	97.50	4924.14
A	TOTAL MATERIAL COST (FOR-2020-21)				16,375.20
B	Stock, Storage & Insurance @ 3% of A				491.26
C	Sub Total (C=A+B)				16,866.45
D	Contingency @3% of C				505.99
E	T & P 2% of C				281.09
F	Transportation @ 7.5% of C				1,264.98
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,405.46
J	Sub Total Rs.				20,323.98
7	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.				27,723.98
V	Dismantling Charges				
1	Dismantling of 11-13 Mtr. RS Joist Pole	EA	1	1350.00	1,350.00
2	Dismantling of 9 Mtr. PSC Pole	EA	5	1350.00	6,750.00
3	Dismantling of 25 KVA ,11/0.4 KV Pole mounted DT	EA	1	1500.00	1,500.00
4	Dismantling of 34/55 sq. mm AAA conductor	KM	0.9	6300.00	5,670.00
	Total Rs.				15,270.00
	Sub Total Rs.				14,44,071.73
	Cess @ 1%				14,440.72
	Total Estimated Cost				14,58,512.45
	Total Estimated Cost in Figures				14,58,512.00
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/-
DM (Elect) I/C

Sd/-
Project Manager(Elect.)