

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 6-E TYPE QTRS. AT DFSL BUILDING PURI IN THE DIST. OF PURI.

BID REF NO :- 44/DGM/ELECT/OPHWC/2024-25

**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	11 KV LINE				
	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	102.00	4680.58
2	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	102.00	1078.43
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	102.00	1193.55
4	11 KV pin insulator polymer	Set	4	272.00	1088.00
5	H W fitting(B&S) 70KN, 3Bolt	No.	6	476.00	2856.00
6	Disc insulator (B&S) 70 KN polymer	No.	6	1564.00	9384.00
7	Non metallic ties -11 KV 55 sq. mm AAAC	No	4	251.00	1004.00
8	IPC for 55 sq. mm AAAC(For covered conductor)	No	6	371.00	2226.00
9	Spike (GI) using 50x6 mm Flat(GI) welded with 8 mm square bar)(2 Nos. spike per set in each pole)	Set	2	332.00	664.00
10	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	170.00	340.00
11	HT Stay Set (Complete)	Set	2	1428.00	2856.00
12	HT Stay Insulator	No.	2	68.00	136.00
13	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	102.00	3060.00
14	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	106.08	788.49
A				A. Sub total	31,355.04
B				B. Stock, Storage & Insurance @ 3% of A	940.65
C				Sub Total (C=A+B)	32,295.69
D				T&P @ 2% of C	514.24
E				Contingency @ 3% of C	968.87
F				Transportation @ 7.5% of C	2,422.18
				Erection Charges @ 5% on poles	

G	Erection Charges @ 10%				2,571.19
H	Total				38,772.17
15	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 .	No	2	2301.53	4603.06
	Total Material + Services Cost (J+K)				43,375.23
B	11 KV PIN POINTS WITH WPB				
1	55 sq. mm AAAC XLPE Covered Conductor	Km	92.70	99.74	9245.90
A	A. Sub total				9,245.90
B	B. Stock, Storage & Insurance @ 3% of A				277.38
C	Sub Total (C=A+B)				9,523.27
D	T&P @ 2% of C				190.47
E	Contingency @ 3% of C				285.70
F	Transportation @ 7.5% of C				714.25
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				952.33
H	Total				11,666.02
II	INSTALLATION OF 63 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	34153.68	68307.36
2	9 Mtr Long 300 KG PSC Pole(for raising of LT ABC)	No	1	4080.00	4,080.00
3	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	2	272.00	544.00
4	Eye Hook for XLPE Aerial Bunched Cable	No	2	81.60	163.20
5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable	No	2	88.40	176.80
6	LT Cable raising Channel(GI) 75x40x4.8 mm GI Channel(GI) (1000 mm long)(7.14Kg./Mtr., 3 No's.) (Each 3x1.000x7.14= 21.42 Kg)	Kg	21.42	102.00	2184.84
7	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	102.00	5850.72
8	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	102.00	404.41
9	MU Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	102.00	4369.68
10	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	102.00	4369.68
11	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	102.00	682.38

12	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	102.00	582.52
13	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	102.00	4369.68
14	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	102.00	1180.14
15	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	102.00	1177.08
16	Double Pole Belting GI channel 75x40x4.8 mm (3000 mm Long,2 Nos.)(7.14 kg/mtr)	Kg	42.84	102.00	4369.68
17	50x50x6 mm GI Bracing Angle(3.512 Mtr. Long, 2 Nos.)(4.5 kg/mtr,2 Nos.)	Kg	31.61	102.00	3224.22
18	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	102.00	15790.62
19	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	152486.81	152486.81
20	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 63 KVA S/S.	No	1	24917.92	24917.92
21	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
22	4Cx95 sq. mm LT XLPE cable	Mtr	15	438.71	6580.65
23	4Cx95 sq. mm LT XLPE cable-from LTDB to Pole	Mtr	40	438.71	17548.40
24	11 KV AB switch (200 Amp, 3 pole)	Set	1	9996.00	9996.00
25	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8323.20	8323.20
26	Wedge connector for 55 sq. mm conductor	EA	6	146.20	877.20
27	Polycarbonate Bird Guard	EA	6	20.96	125.76
28	11 KV Disc insulator polymer type 70 KN	No	3	1564.00	4692.00
29	11 KV H/W fitting polymer type	Pair	3	476.00	1428.00
30	11 KV LA (12KV,10 KA)station class-2	No	3	4828.00	14484.00
31	11 KV Pin Insulator polymer type	No	3	272.00	816.00
32	HT Stay Set (Complete)	Set	2	1428.00	2856.00
33	HT Stay Insulator	No.	2	68.00	136.00
34	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	170.00	340.00
35	7/10 SWG Stay Wire	KG	30	102.00	3060.00
36	GI Pipe for earthing 40mm dia 3mtr long	No	7	1428.00	9996.00
37	GI Nut, Bolt & washers of different sizes	Kg	25	106.08	2652.00
38	GI barbed wire/Anticlimbing device	No	6	108.80	652.80
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	102.00	245.53
40	Danger plate	Kg	2	108.80	217.60
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	102.00	61.38
42	Name Plate	No	1	108.80	108.80
	Structure Numbering and marking				
43	Yellow colour paint for Background	Ltr	2	167.46	334.92
44	Black colour paint for numbering	Ltr	1	299.20	299.20
A				A. Sub total	387,825.19
B				B. Stock, Storage & Insurance @ 3% of A	11,634.76
C				Sub Total (C=A+B)	399,459.95

D	T&P @ 2% of C				7,154.55
E	Contingency @ 3% of C				11,983.80
F	Transportation @ 7.5% of C				29,959.50
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				11,370.90
H	Erection Charges @ 20% on PSC Poles				840.48
I	Erection Charges @ 10% for other materials				12,610.72
J	Total				473,379.89
45	Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	0.9	6648.85	5,983.97
46	Couping Ratio 1:1:5:3(M-20 Grade) with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6648.85	1,502.64
47	PCC ratio 1:3:6(M-10 Grade) For DSS Area (3.5X1.5X0.1)= 0.525 Cu. mtr.	Cu. Mtr	0.525	5247.48	2,754.93
48	Fixing of stay set with 0.5 cum cement concret foundation 1:3:6 size (M-10 Grade)(900x 600x900 mm) using 40 mm BHG metal with all labour and material except stay wire, stay set,stay insulator.	No	2	2301.53	4,603.06
49	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	3784.73	26,493.11
50	DTR Plinth	No	1	28000.00	28,000.00
51	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	55	47.87	2,632.85
52	Supply and Erection of GI fencing with Gate	Sq. Mtr.	16	3682.44	58,919.04
53	Supply and erection of GI Pipe of dia. 150mm, Class-B (8Mtr.)	Mtr.	16	1496.91	23,950.56
54	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1500mm) = 0.375Cu.mtr(Per Pole) (For PSC Pole)	Cu. Mtr	0.375	6648.85	2,493.32
55	Supply of AL Lugs suitable for 95 sq mm cable/conductor, Crimping with cable and Fixing/connecting include supply and erection of PVC Tape as per voltage requirement.	EA	24	92.06	2,209.44
56	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 3.5/4C 50-95sqmm including making hole in Base plate and dressing of cable along with vermin proofing properly .Supply to be done as per TPCODL Spec and approved make dowells.	EA	3	690.46	2,071.38
					161,614.29
				Sub total Rs	634,994.18

PART-III	Supply and Laying of 1.1 KV LT XLPE Insulation armoured U/G Cable using 4 C x 95 Sq. mm of length 45 Mtr.				
1	Supply of materials for 1.1 KV XLPE insulation armoured UG cablele with accessories-Open trench (along with spare cable)				
a	Length of 1.1 KV, 4C, 95 sq. mm XLPE insulation armoured-Aluminium UG Cable(open trench)	Mtr.	45		
1.1	4 core 95 sq. mm XLPE insulation armoured - Aluminium UG Cable	Mtr	90	438.71	39,483.90
1.2	Supply of HDPE PE 80-PN8 pipe of 110mm diameter	Mtr	90	306.00	27,540.00
2	supply of 1.1 KV Multimeter Panel				
a	No. of 1.1 KV I/C -160 A & 20 Nos. of O/G 32 A	No	1		
2.1	Supply of 1.1 KV I/C-160 A & 29 Nos. of O/G 32A	Nos	1	207000.00	207,000.00
3	Earthing of Multimeter Panel				
3.1	Earthing conductor 50x6mm (2.4 Kg/Mtr.)GI flat	Kg	13.2	102.00	1,346.40
3.2	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 Mtr. Long	Nos	2	1428.00	2,856.00
A	A. Sub total				278,226.30
	Erection Portion				
1	Laying ,commissioning ,Testing of 1.1 KV , Aluminium, XLPE insulation armoured UG cable by open trench method				
1.1	Laying of 1.1 KV ,4 core 95 sq. mm XLPE insulation armoured-Aluminium UG cable	Mtr	90	47.87	4,308.30
1.2	Laying of 110 mm HDPE pipe	Mtr	90	306.87	27,618.30
2	SITC of Gland /AL term				
2.1	Supply and erection of double compression flameproof type glanding for armoured cable 3.5/4 core ,50-95 sq. mm including making hole in Base plate and dressing of cable along with vermin proofing properly .supply to be done as per TPCODL specification and approved make dowells	EA	4	690.46	2,761.84
					34,688.44
Civil Portion					
2	Civil works with supply of all materials like cement, MS tor rod, brick, coarse & fine aggregates and labour, T&P, etc for LT UG Cable Trench				
	Earth work excavation of soil Trench Dimension(1 Mtr. Wx1 Mtr. D)				
2.1	Earth work excavation of soil	Cum	7	716.03	5,012.21
2.2	Earth work excavation of hard rock	Cum	3	1,759.39	5,278.17
2.3	Back filling with excavated soil outside and above the trench	Cum	10	204.58	2,045.80

2.4	Damage of asphalt/tar Road and other utilities and reconstructing to bring to its original shape after laying of cable in open trench (1 Mtr. Width)	Km	0.01	3,874,084.29	38,740.84
2	Civil works with supply of all materials like cement, MS tor rod, brick, coarse & fine aggregates and labour, T&P, etc for LT UG Cable Trench				
2.1	Earth work excavation of soil Trench Dimension(1.6 Mtr. Wx1.275 Mtr. D)	Cum	14.280002	716.03	10,224.91
2.2	Earth work excavation of hard rock Trench Dimension(1.6 Mtr. Wx1.275 Mtr. D)	Cum	6.1200018	1,759.39	10,767.47
2.3	Back filling with excavated soil outside and above the trench	Cum	5.7750024	204.58	1,181.45
2.4	PCC (1:3:6(M-10 Grade)) below trench (width 1500mm, thickness 75mm throughout)	Cum	1.124999	5,247.48	5,903.41
2.5	Supply and erection of material for RCC partition slab 750mmX100mm (M-25 grade)	Cum	0.9749998	7,483.54	7,296.45
2.6	Supply and erection of material for RCC trench, 150mm thick (M-25 grade)	Cum	4.6499999	7,483.54	34,798.46
2.7	Supply and erection of rod, bending, cutting and binding of RCC trench (65.23 KG/cum)	Cum	303.31946	111.50	33,820.12
2.8	Supply and erection of rod, bending, cutting and binding of RCC slabs (67.8 KG/cum)	Cum	66.105022	111.50	7,370.71
2.9	Centring & shuttering for mass concrete	M2	39	307.89	12,007.71
3	Structural steel work riveted (Channel(GI)-75mmX40mmX4.8mm), (Flat(GI)- 75mmX6mm)	Kg	28.47	130.00	3701.1
	Civil works for Prefabricated RCC foundation with supply of all materials				
3.1	Construction of earthing chamber including installation of earthing pipe.Making earthing chamber including excavation, soil treatment with betonide powder, calculation of earth resistance,inclusing installation of 3 Mtr. GI Pipe 40/50 mm including welding of GI flat around pipe.	Set	2	3,784.73	7,569.46
	Sub Total (Civil Portion) (in Rs.)				185,718.27
A	Sub Total (Supply Portion)				278,226.30
B	Stock, Storage & Insurance @ 3 % of A				8,346.79
C	Sub Total (A+B)				286,573.09
D	Contingency @ 3 % of C				8,597.19
E	Tools & Plants Charges @ 2% of C (considered for multimeter panel and earthing items)				4,291.94
F	Transportation @ 7.5% of C				21,492.98
G	Erection Charges @ 10% of earthing items and Multimeter panel				21,459.68
H	Total (C+D+E+F+G)				342,414.88
I	Sub Total (Erection Portion + Civil Portion)				220,406.71
J	Total Cost (H+I)				562,821.60
	Sub Total Rs.				1,252,857.03

	Cess @1%				12,528.57
	Total Estimated Cost				1,265,385.60
	Total Estimated Cost in Figures				1,265,386.00
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/-
DGM Engg.(Elect.)