

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 6-F TYPE QTRS. AT DELANGA FIRE STATION IN THE DIST. OF PURI.

BID REF NO :- 43/DGM/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.
1	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			124,257.77
B		B. Stock, Storage & Insurance @ 3% of A			3,727.73
C		Sub Total (C=A+B)			127,985.50
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			152,594.36
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)			166,656.86
B	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
2	11 KV V cross arm	No	1	1053.00	1053.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	1	195.00	195.00
4	Danger plate	No	1	104.00	104.00
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	0.3	97.50	29.25
6	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.2	97.50	117.00
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	3	260.00	780.00
9	Earthing of Support (Coil Type)	No	1	215.80	215.80
10	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
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	1.45	101.40	147.03
12	55 sq. mm AAAC	Km	0.37	39000.00	14461.20
13	Yellow colour paint for Background	Ltr	2	216.00	432.00
14	Black colour paint for numbering	Ltr	1	286.00	286.00
A		A. Sub total			47,818.63
B		B. Stock, Storage & Insurance @ 3% of A			1,434.56
C		Sub Total (C=A+B)			49,253.19
D		T&P @ 2% of C			985.08
E		Contingency @ 3% of C			1,477.60
F		Transportation @ 7.5% of C			3,693.99
		Erection Charges @ 5% on poles			1,527.54

G	Erection Charges @ 10%				1,870.24
H	Total				58,807.63
15	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
16	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)				62,463.88
II	INSTALLATION OF 63 KVA S/S.				
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	0	76.00	0.00
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	63 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	112450.00	112450.00
18	LT Distrubution Box with MCCB, Aluminim Busbar of single Bay with kit kat Fuse for 63 KVA S/S.	No	1	23818.60	23818.60
19	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
20	4Cx95 sq. mm LT XLPE cable	Mtr	15	479.61	7194.15
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	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
25	11 KV H/W fitting polymer type	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 Insulator	No.	2	65.00	130.00
30	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
31	7/10 SWG Stay Wire	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
	Structure Numbering and marking				
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	304,715.23
B				B. Stock, Storage & Insurance @ 3% of A	9,141.46
C				Sub Total (C=A+B)	313,856.68
D				T&P @ 2% of C	5,806.24
E				Contigency @ 3% of C	9,415.70
F				Transportation @ 7.5% of C	23,539.25
G				Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%	8,846.26
H				Erection Charges @ 20% on PSC Poles	
I				Erection Charges @ 10% for other materials	11,338.68
J				Total	372,802.82
41	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
42	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6500	1,469.00
43	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
44	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
45	Laying of 4Cx95 sq.mm LT XLPE cable	Mtr.	15	46.80	702.00
46	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
					92,421.00
				Sub total Rs	465,223.82

III	11 KV LINE PROTECTING GUARDING ON SINGLE POLE 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)(For Single Pole)	Kg	81.396	76.00	6186.10
2	No-6 GI wire (0.192 Kg/Mtr.)for main string	Kg	23.04	97.50	2246.40
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	4.9125	97.50	478.97
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)				16,877.60
B	Stock, Storage & Insurance @ 3% of A				506.33
C	Sub Total (C=A+B)				17,383.93
D	Contingency @3% of C				521.52
E	T & P 2% of C				291.44
F	Transportation @ 7.5% of C				1,303.79
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,457.20
J	Sub Total Rs.				20,957.89
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.				28,357.89
IV	Construction of LT Line using 4C×50 mm² (P)+1C×50 mm²(M)+1CX50 mm²(Street Light) (LT AB Cable)-0.21 Km.				
1	9 Mtr. long 300 Kg. PSC Pole	No	6	3900.00	23,400.00
2	LT Stay set Complete	Set	2	676.00	1,352.00
3	7/12 SWG GI stay wire, Grade -2	Kg	24	97.50	2,340.00
4	LT stay Clamp (1.40Kg/pair)	Pair	2	143.00	286.00
5	LT Stay insulator	No	2	39.00	78.00
	LT Accessories with Eye Hook and Clamp				
6	Pole clamp for EYE hook for (XLPE Aerial bunched Cable)	Pair	7	260.00	1,820.00
7	EYE hook for XLPE Aerial bunched Cable	No	4	78.00	312.00
8	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	No	4	84.50	338.00
9	Suspension Clamp with EYE hook for ABC	No	3	442.00	1,326.00
10	4C×50 mm ² (P)+1C×50 mm ² (M)+1CX16 mm ² (Street Light) (LT AB Cable)	Mtr	220.5	226.00	49,833.00
11	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No	4	113.08	452.32
12	Pipe Earthing (each 5th pole to earth)	No	1	1365.00	1,365.00
13	Coil Earthing	No	5	215.8	1079.00
14	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	1.572	97.5	153.27
15	Danger plate (LT)	Kg	6	104	624.00
16	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	Kg	1.81	97.50	176.48

17	GI barbed wire anticlimbing device 3 Kg. Per support	Ltr	18	104.00	1,872.00
18	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	Kg	7.22	97.50	703.95
19	GI Nut , Bolt & Washer of different sizes (0.5 Kg/ Pole)	Kg	3	101.40	304.20
20	Black Paint	Ltr.	6	286.00	1,716.00
21	Yellow Colour Paint for Background	Ltr	12	216.00	2,592.00
A	TOTAL MATERIAL COST				92,123.22
B	Stock, Storage & Insurance @ 3% of A				2,763.70
C	Sub Total (C=A+B)				94,886.91
D	Contingency @3% of C				2,846.61
E	T & P 2% of C				1,841.76
F	Transportation @ 7.5% of C				7,116.52
G	Erection Charges for PSC Pole @ 20%				4,820.40
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				6,520.10
J	Sub Total Rs.				118,032.30
Civil and Services Works (As per Technical Specification)					
22	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	2	2250	4500
23	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	2.25	6500.00	14,625.00
24	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				22,825.00
				Total Material + Services Cost (J+K)	
				140,857.30	
V	Dismantling Charges				
1	Dismantling of 11-13 Mtr. RS Joist Pole	EA	2	1350.00	2,700.00
2	Dismantling of LT Pole	No	4	900.00	3,600.00
3	Dismantling of 25 KVA ,11/0.4 KV Pole mounted DT	EA	1	1500.00	1,500.00
4	Dismantling of GI pin with insulator	No	3	8.10	24.30
5	Dismantling of 11 KV Disc insulator with HW fitting	No	3	8.10	24.30
6	Dismantling of MS channel from 11 KV Pole/DP	Kg	90	7.92	712.80

7	Dismantling of LT AB cable	Mtr.	200	22.50	4,500.00
	Total Rs.				13,061.40
	Sub Total Rs.				876,621.14
	Cess @1%				8,766.21
	Total Estimated Cost				885,387.36
	Total Estimated Cost in Figures				885,387.00
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.)