

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 :- 13 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO BALANGA POLICE STATION BUILDING IN THE DISTRICT OF PURI.

BID REF NO :- 04/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	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.22 KM .				
A	11 KV CUT POINT WITH 180 DEGREE ANGLE FOR GUUARDING ARRANGEMENT				
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	22.943	76.00	1743.67
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.286	97.50	515.39
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	5.85	76.00	444.60
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	0.3	97.50	29.25
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	1.2	97.50	117.00
9	11 KV pin insulator polymer	Set	3	260.00	780.00
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	Earthing of Support (Coil Type)	No	1	215.80	215.80
13	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
14	PG clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
15	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	3.55	101.40	359.97
16	Yellow colour paint for Background	Ltr	2	216.00	432.00
17	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A				A. Sub total	50,327.02

B	B. Stock, Storage & Insurance @ 3% of A				1,509.81
C	Sub Total (C=A+B)				51,836.83
D	T&P @ 2% of C				1,036.74
E	Contingency @ 3% of C				1,555.11
F	Transportation @ 7.5% of C				3,887.76
		Erection Charges @ 5% on WPB poles			1,527.54
G	Erection Charges @ 10%				2,128.68
H	Total				61,972.66
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	0.45	6500.00	2925.00
17	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)				65,628.91
B	11 KV CUT POINT WITH 90 DEGREE ANGLE WITH 1 NO. ADDITIONAL CANTILEVER ARRANGEMENT				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	6	29661.00	177966.00
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	286.8	76.00	21796.80
3	Cantilever support Angle 50X50X6mm, GI(2 mm Long)(4.5 Kg/Mtr.)	Kg	9	76.00	684.00
4	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	63.4368	97.50	6185.09
5	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	70.20864	76.00	5335.86
6	Danger plate	No	6	104.00	624.00
7	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	1.8054	97.50	176.03
8	GI barbed wire/Anticlimbing device	No	18	104.00	1872.00
9	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	7.2216	97.50	704.11
10	11 KV pin insulator polymer	Set	24	260.00	6240.00
11	H W fitting(B&S) 70KN, 3Bolt	No.	39	455.00	17745.00
12	Disc insulator (B&S) 70 KN polymer	No.	39	1495.00	58305.00
13	Earthing of Support (Coil Type)	No	6	215.80	1294.80
14	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	1.572	97.50	153.27
15	PG clamp for 55 sq. mm AAAC	No	39	624.00	24336.00
16	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	12	162.50	1950.00
17	HT Stay Set (Complete)	Set	11	1365.00	15015.00
18	HT Stay Insulator	No.	11	65.00	715.00
19	7/10 SWG Stay Wire , 15 Kg/stay	KG	165	97.50	16087.50
20	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	44.598	101.40	4522.24

22	Yellow colour paint for Background	Ltr	12	216.00	2592.00
23	Black colour paint for numbering	Ltr	3	286.00	858.00
A	A. Sub total				3,65,157.68
B	B. Stock, Storage & Insurance @ 3% of A				10,954.73
C	Sub Total (C=A+B)				3,76,112.41
D	T&P @ 2% of C				6,826.64
E	Contingency @ 3% of C				11,283.37
F	Transportation @ 7.5% of C				28,208.43
		Erection Charges @ 5% on poles			9,165.25
G	Erection Charges @ 10%				15,802.69
H	Total				4,47,398.80
24	Couping Ratio 1:1:5:3(500 mmx500mmx1800mm)=0.45 Cu. Mtr.	Cum	2.7	6500.00	17550.00
25	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.675	6500.00	4387.50
26	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	11	2250.00	24750.00
	Total Material + Services Cost (J+K)				4,94,086.30
C	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
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
10	Earthing of Support (Coil Type)	No	1	215.80	215.80
11	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
12	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	1.45	101.40	147.03
13	55 sq. mm AAAC	Km	0.6798	39000.00	26512.20
14	Yellow colour paint for Background	Ltr	2	216.00	432.00
15	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				58,621.63
B	B. Stock, Storage & Insurance @ 3% of A				1,758.65
C	Sub Total (C=A+B)				60,380.28

D		T&P @ 2% of C			1,207.61
E		Contingency @ 3% of C			1,811.41
F		Transportation @ 7.5% of C			4,528.52
		Erection Charges @ 5% on poles			1,527.54
G		Erection Charges @ 10%			2,983.01
H		Total			72,438.36
16	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.55 Cu. Mtr.	Cum	0.45	6500.00	2925.00
17	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)			76,094.61
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				3,04,715.23
B	B. Stock, Storage & Insurance @ 3% of A				9,141.46
C	Sub Total (C=A+B)				3,13,856.68
D	T&P @ 2% of C				5,806.24
E	Contingency @ 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				3,72,802.82
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	4,65,223.82
II	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	125.664	76.00	9550.46
2	No-6 GI wire (0.192 Kg/Mtr.)for main string	Kg	46.08	97.50	4492.80
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	9.825	97.50	957.94
4	Eye Bolt(236 mm,16 mm dia,1.577 Kg/mtr.)	No	8	78.00	624.00
5	GI Pipe earthing 40 mm dia 3 Mtr. Long	No	4	1365.00	5460.00
6	50x6mm GI Flat for earthing, 2.36kg/mtr.	Kg	101.008	97.50	9848.28
A	TOTAL MATERIAL COST (FOR-2020-21)				30,933.48
B	Stock, Storage & Insurance @ 3% of A				928.00
C	Sub Total (C=A+B)				31,861.49
D	Contingency @3% of C				955.84
E	T & P 2% of C				524.75
F	Transportation @ 7.5% of C				2,389.61
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				2,623.77
J	Sub Total Rs.				38,355.46
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	4	3700.00	14,800.00
	Total Rs.				53,155.46
IV	Construction of LT Line using 4Cx25 sq. mm Armoured aluminium cable- XLPE insulated - -0.09 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	3	3900.00	11,700.00
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	Pair	2	143.00	286.00
5	LT stay set 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	5	260.00	1,300.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	4	78.00	312.00
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	4	84.50	338.00

9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	1	442.00	442.00
10	4Cx25 sq. mm Armoured aluminium cable- XLPE insulated	Mtr	94.5	159.61	15,083.15
11	4 way service Distribution Box with kitkat fuse and aluminium Busbar	No	1	2873.00	2,873.00
13	Insulated piercing connector.Type-B-main 25 to 150 sq.mm & Tap-6 to 35 sq.mm	No	2	62.13	124.26
12	GI Pipe for earthing (each 5th pole to earth)	No	1	1365.00	1,365.00
13	Coil Earthing	No	2	215.80	431.60
14	No-8 GI wire (Dia-4.6mm)	Kg	0.786	97.50	76.64
15	Danger plate (LT)	No	3	104.00	312.00
16	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.9	97.5	87.75
17	GI barbed wire/Anticlimbing device 3 kg per support	Kg	9	104	936.00
18	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	3.61	97.5	351.98
19	GI Nut, Bolt & washers of different sizes	Kg	1.5	101.40	152.10
20	Yellow colour paint for Background	Ltr	6	216.00	1,296.00
21	Black colour paint for numbering	Ltr	3	286.00	858.00
A	A. Sub total				42,095.47
B	Stock, Storage & Insurance @ 3% of A				1,262.86
C	Sub Total (C=A+B)				43,358.33
D	Contingency @3% of C				1,300.75
E	T & P 2% of C				755.50
F	Transportation @ 7.5% of C				3,251.87
G	Erection Charges for PSC Pole @ 20%				2,410.20
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				2,572.41
J	Sub Total Rs.				53,649.06
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	1.125	6500.00	7,312.50
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				15,512.50

	Total Material + Services Cost (J+K)				69,161.56
	Total Rs.				12,23,350.66
	Cess @ 1%				12233.51
	Total Estimated Cost				12,35,584.17
	Total Estimated Cost in Figures				12,35,584.00
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/-
Project Manager(Elect.)**

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