

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 6-F TYPE QUARTERS AT CHAMPAHAR FIRE STATION IN THE DISTRICT OF PURI.

BID REF NO :- 76/PM/ELECT/OPHWC/2022-23

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 WITH 80 SQ. MM AAA INSULATED PVC CONDUCTOR-0.5 KM				
A	11 KV CUT POINT WITH 180 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	88.50	4061.09
2	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	88.50	935.69
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	88.50	1035.58
4	11 KV pin insulator polymer	Set	4	236.00	944.00
5	H W fitting(B&S) 70KN, 3Bolt	No.	6	413.00	2478.00
6	Disc insulator (B&S) 70 KN polymer	No.	6	1357.00	8142.00
7	PG Clamp for 80 sq.mm AAA conductor	No.	6	625.40	3752.40
8	GI Nut , Bolt & Washer of different sizes (7.433 Kg each) Cut Pole	Kg	3.55	92.04	326.74
A	A. Sub total				21,675.50
B	B. Stock, Storage & Insurance @ 3% of A				650.27
C	Sub Total (C=A+B)				22,325.77
D	T&P @ 2% of C				446.52
E	Contingency @ 3% of C				669.77
F	Transportation @ 7.5% of C				1,674.43
G	Erection Charges @ 5% on poles				
H	Erection Charges @ 10%				2,232.58
I	Total				27,349.06
	Total Material + Services Cost (J+K)				27,349.06

B	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	6	26516.95	159101.70
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	275.328	88.50	24366.53
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	63.4368	88.50	5614.16

4	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	88.50	6213.46
5	Danger Plate	No	6	94.40	566.40
6	Back clamp for Danger Plate 25x3 mm , flat of 0.59 Kg/Mtr. Flat of 0.51 Mtr Length 1 Nos.	Kg	1.8054	88.50	159.78
7	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	18	94.40	1699.20
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's =	Kg	7.2216	88.50	639.11
9	11 KV pin insulator polymer	Set	18	236.00	4248.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	36	413.00	14868.00
11	Disc insulator (B&S) 70 KN polymer	No.	36	1357.00	48852.00
12	Earthing of Support (Coil Type)	EA	6	195.88	1175.28
13	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	1.572	88.50	139.12
14	PG Clamp for 80 sq.mm AAA conductor	No.	36	625.40	22514.40
15	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	8	147.50	1180.00
16	HT Stay Set (Complete)	Set	8	1239.00	9,912.00
17	HT Stay Insulator	No.	8	59.00	472.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	120	88.50	10,620.00
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each) Cut Pole	Kg	44.598	92.04	4104.80
20	Black Paint	K.g.	3	259.60	778.80
21	Yellow Colour Paint for Background	Ltr	12	259.60	3115.20
A	A. Sub total				3,20,339.94
B	B. Stock, Storage & Insurance @ 3% of A				9,610.20
C	Sub Total (C=A+B)				3,29,950.14
D	T&P @ 2% of C				6,599.00
E	Contingency @ 3% of C				9,898.50
F	Transportation @ 7.5% of C				24,746.26
	Erection Charges @ 5% on poles				8,193.74
G	Erection Charges @ 10%				14,322.59
H	Total				3,93,710.24
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 excvation, 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	8	2250	18,000.00
23	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	2.7	6500.00	17,550.00
24	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.675	6500	4,387.50
	Total Material + Services Cost (J+K)				4,33,647.74
C	11 KV PIN POINTS WITH WPB				
1	WPB 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No.	4	26,516.95	106067.80
2	11 KV V cross Arm (10.2 K.g. each)	No.	4	955.80	3823.20
3	Top bracket 100x50X6 mm GI channel (2kg each)	No.	4	177.00	708.00

4	Danger Plate, 1 no's. for each pole	No.	4	94.40	377.60
5	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	1.2036	88.50	106.52
6	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	12	94.40	1132.80
7	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	4.8144	88.50	426.07
8	11 KV pin insulator polymer, 3 Nos. required for each support	No.	12	236.00	2832.00
9	Earthing of Support (Coil Type)	No.	4	195.88	783.52
10	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	K.g.	1.048	88.50	92.75
11	GI Nut , Bolt & Washer of different sizes (1.45 Kg/ Pin Point)	K.g.	5.8	92.04	533.83
12	80 mm2 Insulated AAAC	K.M.	1.545	66,976.80	103479.16
13	Crimping type Midspan Compression Joint for 55 sq.mm AAA conductor	EA	0	267.48	0.00
14	Black Paint	Ltr	4	259.60	1038.40
15	Yellow Colour Paint for Background	Ltr	8	259.60	2076.80
A	A. Sub total				2,23,478.45
B	B. Stock, Storage & Insurance @ 3% of A				6,704.35
C	Sub Total (C=A+B)				2,30,182.80
D	T&P @ 2% of C				4,603.66
E	Contingency @ 3% of C				6,905.48
F	Transportation @ 7.5% of C				17,263.71
	Erection Charges @ 5% on poles				5,462.49
G	Erection Charges @ 10%				12,093.30
H	Total				2,76,511.44
16	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	1.8	6500.00	11,700.00
17	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.45	6500	2,925.00
	Total Material + Services Cost (J+K)				2,91,136.44
II	Installation of 1 No. 63 KVA S/S.				
Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
1	WPB 160x152 (11Mtr. Long, 30.44KG/Mtr.)(GI)	No	2	26516.95	53,033.90
2	Top Channel GI 100 X 50 X 6 MM (3000 mm long) (9.56Kg/Mtr, 2 No's.) (Each 2x3.000x9.56= 57.36 Kg)	Kg	57.36	88.50	5,076.36
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	Kg	3.9648	88.50	350.88
4	M.U Channel GI 75x40x4.8 mm (3000 mm long)(7.14Kg/Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	Kg	0	88.50	-
5	AB Switch Mounting Channel 75x40x4.8 mm GI Channel (3000 mm long)(7.14Kg./Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	Kg	42.84	88.50	3,791.34

6	AB Switch Side Support Channel 100X50X6mm,9.56 KG/Mtr., each channel length 0.35 mtr., 2 no's channel required =(9.56x2x0.35)	Kg	6.69	88.50	592.07
7	Channel Support for down Pipe 75X40X 4.8mm., 7.14KG/Mtr., each channel length 0.8 Mtr., 1 no's channel required =(7.14x0.8x1)	Kg	5.71	88.50	505.34
8	HG/ DO Fuse Mounting Channel 75x40x4.8 mm GI Channel (3000 mm long)(7.14Kg./Mtr., 2 No's.) (Each 2x3.000x7.14= 42.84 Kg)	Kg	42.84	88.50	3,791.34
9	Cantilever Support Channel 75x40x4.8 mm GI Channel (810 mm long,2 No's.) (7.14Kg./Mtr., 2 No's.) (Each 2x0.810x7.14= 11.57 Kg)	Kg	11.57	88.50	1,023.95
10	Cantilever Support Angle 50 X 50 X 6MM GI (1282 mm long) (4.5Kg./Mtr, 2 No's.) (Each 2x1.282x4.5= 11.54Kg)	Kg	11.538	88.50	1,021.11
11	Transformer Base GI Channel 100 X 50 X 6 MM (3000 mm long) (9.56Kg./Mtr, 2 No's.) (Each 2x3.000x9.56= 57.36 Kg)	Kg	0	88.50	-
12	Transformer Base Support GI Channel 100 X 50 X 6 MM (515 mm long) (9.56Kg./Mtr, 2 No's) (Each 2x0.515x9.56= 9.85Kg)	Kg	0	88.50	-
13	Transformer Belting Angle 50 X 50 X 6MM GI (3000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x3.0x4.5 Kg)	Kg	0	88.50	-
14	Transformer Belting Support Angle 50 X 50 X 6MM GI (580 mm long)(4.5Kg./Mtr,2 No's) (Each 2x0.580x4.5= Kg)	Kg	0	88.50	-
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	88.50	796.50
16	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 2 no's (Each 2x0.59x0.510)	Kg	0.6018	88.50	53.26
17	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For LA and 2.5 mtr. For raising, 11 mtr for AB switch, 2.8 mtr for HG Fuse, 5x2 mtr. for DTR Nutral, (1.3+4.5) mtr. For DTR Body, 0.500 mtr for LTDB & AB Switch operating handle, 3 mtr. for Fencing) (Each 65.6x 2.36= 154.81 Kg)	Kg	154.82	88.50	13,701.57
18	63 KVA , 11/ 0.4 KV (AL) Transformer BIS Energy level II	No	1	102070.00	1,02,070.00
19	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 63 KVA S/S	Set	1	21619.96	21,619.96
20	55mm ² All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Km	0.05	56000.00	2,800.00
21	4 Cx 95 mm ² LT XLPE Cable(Armoured) - FOR 63 KVA Trf.	Mtr.	15	479.61	7,194.15
22	AB Switch(11KV,200A.3pole,50Hz)	Set	1	8673.00	8,673.00
23	H.G.Fuse(11KV.200A.3Pole)	Set	1	7221.60	7,221.60
24	PG Clamp for 55 sq.mm AAA conductor	No	6	566.40	3,398.40
25	11KV pin insulator polymer	No	6	236.00	1,416.00
26	Disc insulator (B&S)70 KN polymer	No	3	1357.00	4,071.00
27	H W fitting (B&S)70KN(3bolted)	Set	3	413.00	1,239.00
28	Lightning Arrester(12KV,10KA) Station Class 2	Nos.	3	4189.00	12,567.00
29	HT stay set complete	Set	2	1239.00	2,478.00
30	HT stay Clamp (1.9Kg/pair)	Pair	2	147.50	295.00
31	HT stay insulator TYPE-C	No	2	59.00	118.00
32	7/10 SWG GI stay wire, Grade -2 (15Kg./ Set)	Kg	30	88.50	2,655.00

33	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 mtr .Long	No	7	1239.00	8,673.00
34	GI Nuts & Bolts of Assorted size (25 Kg/ DSS DP)	Kg	25	92.04	2,301.00
35	GI Barbed wire/Anticlimbing device (3Kg /Pole)	Kg	6	94.40	566.40
36	Danger plate 11kv	No	2	94.40	188.80
37	Name plate	No	1	94.40	94.40
38	Yellow colour paint for Background	Ltr	2	259.60	519.20
39	Black colour paint for numbering	Ltr	1	259.60	259.60
A	A. Sub total				2,74,156.12
B	B. Stock, Storage & Insurance @ 3% of A				8,224.68
C	Sub Total (C=A+B)				2,82,380.81
D	T&P @ 2% of C				5,647.62
E	Contingency @ 3% of C				8,471.42
F	Transportation @ 7.5% of C				21,178.56
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				7,987.85
H	Erection Charges @ 10% for other materials				11,691.11
I	Total				3,37,357.37
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)=0.113 Cu. Mtr.	Cum	0.226	6500.00	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	Installation of Earthpit ,charcoal,salt, etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No	7	2407.00	16,849.00
44	DTR Plinth	No	1	25000.00	25,000.00
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
					1,25,668.00
				Sub total Rs	4,63,025.37
III	Labour charges of Dismantalling of Lines S/S with all Accessories.				
1	Dismantalling of conductor	Mtr.	1500	6.30	9,450.00
2	Dismantalling of V-cross Arm	EA	6	30.00	180.00
3	Dismantalling of GI pin with Pin-Insulator	EA	18	8.10	145.80
				Total Services Cost	9,775.80
	Sub Total Rs.				12,24,934.41
	Cess @1%				12,249.34
	Total Estimated Cost				12,37,183.75
	Total Estimated Cost in Figures				12,37,184.00
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/-
Asst. Project Manager (Elect) (Hqr)**

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