

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 2-C AND 3-D TYPE QTRS. AT OSAP 1ST. BN., DHENKANAL.

BID REF NO :- 73/PM/ELECT/OPHWC/2022-23

**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 WITH 55 SQ. MM AAA PVC INSULATED CONDUCTOR-0.1 KM				
A	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	26516.95	26516.95
2	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
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	88.50	935.69
4	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
5	Danger Plate	No	1	94.40	94.40
6	Back clamp for Danger Plate 25x3 mm , flat of 0.59 Kg/Mtr. Flat of 0.51 Mtr Length 1 Nos.	Kg	0.3009	88.50	26.63
7	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	3	94.40	283.20
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's =(8x0.59x0.510)	Kg	1.2036	88.50	106.52
9	11 KV pin insulator polymer	Set	3	236.00	708.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	6	413.00	2478.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1357.00	8142.00
12	Earthing of Support (Coil Type)	EA	1	195.88	195.88
13	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	0.262	88.50	23.19
14	PG Clamp for 55 sq.mm AAA conductor	No.	6	566.40	3398.40
15	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	147.50	295.00
16	HT Stay Set (Complete)	Set	2	1239.00	2,478.00
17	HT Stay Insulator	No.	2	59.00	118.00

18	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	88.50	2,655.00
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each) Cut Pole	Kg	7.433	92.04	684.13
20	Black Paint	K.g.	0.5	259.60	129.80
21	Yellow Colour Paint for Background	Ltr	2	259.60	519.20
A	A. Sub total				54,884.66
B	B. Stock, Storage & Insurance @ 3% of A				1,646.54
C	Sub Total (C=A+B)				56,531.20
D	T&P @ 2% of C				1,130.62
E	Contingency @ 3% of C				1,695.94
F	Transportation @ 7.5% of C				4,239.84
	Erection Charges @ 5% on poles				1,365.62
G	Erection Charges @ 10%				2,350.64
H	Total				67,313.86
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	2	2250	4,500.00
23	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	0.45	6500.00	2,925.00
24	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.1125	6500	731.25
	Total Material + Services Cost (J+K)				75,470.11
B	11 KVPIN POINTS WITH WPB				
1	WPB 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No.	1	26,516.95	26516.95
2	11 KV V cross Arm (10.2 K.g. each)	No.	1	955.80	955.80
3	Top bracket 100x50X6 mm GI channel (2kg each)	No.	1	177.00	177.00
4	Danger Plate, 1 no's. for each pole	No.	1	94.40	94.40
5	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	0.3	88.50	26.55
6	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	3	94.40	283.20
7	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	1.2	88.50	106.20
8	11 KV pin insulator polymer, 3 Nos. required for each support	No.	3	236.00	708.00
9	Earthing of Support (Coil Type)	No.	1	195.88	195.88
10	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	K.g.	0.26	88.50	23.01
11	GI Nut , Bolt & Washer of different sizes (1.45 Kg/ Pin Point)	K.g.	1.45	92.04	133.46
12	55 mm ² AAA Insulated PVC Conductor	K.M.	0.309	56,000.00	17304.00
13	Crimping type Midspan Compression Joint for 55 sq.mm AAA conductor	EA	0	267.48	0.00
14	Black Paint	Ltr	1	259.60	259.60

15	Yellow Colour Paint for Background	Ltr	2	259.60	519.20
16	Guarding for Road crossing	Span	1	6,000.00	6000.00
A	A. Sub total				53,303.25
B	B. Stock, Storage & Insurance @ 3% of A				1,599.10
C	Sub Total (C=A+B)				54,902.35
D	T&P @ 2% of C				1,098.05
E	Contingency @ 3% of C				1,647.07
F	Transportation @ 7.5% of C				4,117.68
	Erection Charges @ 5% on poles				1,365.62
G	Erection Charges @ 10%				2,759.05
H	Total				65,889.81
17	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	0.45	6500.00	2,925.00
18	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.1125	6500	731.25
	Total Material + Services Cost (J+K)				69,546.06
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.)	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	42.84	88.50	3,791.34
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	11.54	88.50	1,021.29
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	57.36	88.50	5,076.36

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	9.85	88.50	871.73
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	27	88.50	2,389.50
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	5.22	88.50	461.97
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	0.6	88.50	53.10
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	Disc insulator (B&S)70 KN polymer	No	3	1357.00	4,071.00
26	H W fitting (B&S)70KN(3bolted)	Set	3	413.00	1,239.00
27	Lightning Arrester(12KV,10KA) Station Class 2	Nos.	3	4189.00	12,567.00
28	11KV pin insulator polymer	No	3	236.00	708.00
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	2,86,039.03

B	B. Stock, Storage & Insurance @ 3% of A				8,581.17
C	Sub Total (C=A+B)				2,94,620.21
D	T&P @ 2% of C				5,892.40
E	Contingency @ 3% of C				8,838.61
F	Transportation @ 7.5% of C				22,096.52
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				12,915.02
I	Total				3,52,350.60
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(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	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
					1,00,668.00
				Sub total Rs	4,53,018.60
III	Construction of LT Line using 3x50 sq. mm+1x35 sq. mm LT AB Cable- -0.4 Km				
1	9 Mtr Long 300 KG PSC Pole	No	12	3540.00	42,480.00
2	LT stay set complete	Set	8	613.60	4,908.80
3	7/12 SWG GI stay wire, Grade-2	Kg	96	88.50	8,496.00
4	LT stay clamp	Pair	8	129.80	1,038.40
5	LT stay set Insulator	No	8	35.40	283.20
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	16	236.00	3,776.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	2	70.80	141.60
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	2	76.70	153.40
9	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	Pair	12	401.20	4,814.40
10	3x50 sq. mm+1x35 sq. mm LT Aerial Bunched Cable	K.M	0.42	153400.00	64,428.00
11	Insulated piercing connector, Type-B main 16 to 95 sq.mm & Tap-15 to 16 sq. mm	No.	5	40.06	200.30
12	Pipe Earthing(each 5 th Pole to Earth)	No	2	1239.00	2,478.00
13	Coil Earthing	No	10	195.88	1,958.80
14	No-8 GI wire (Dia-4.6mm)	Kg	3.144	88.50	278.24
15	Danger plate (LT)	No	12	94.40	1,132.80
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	3.61	88.5	319.49

17	GI Nut, Bolt & washers of different sizes	Kg	6	92.04	552.24
18	Yellow colour paint for Background	Ltr	24	259.60	6,230.40
19	Black colour paint for numbering	Ltr	12	259.60	3,115.20
A	TOTAL MATERIAL COST (FOR-2020-21)				1,46,785.27
B	Stock, Storage & Insurance @ 3% of A				4,403.56
C	Sub Total (C=A+B)				1,51,188.83
D	Contingency @3% of C				4,535.66
E	T & P 2% of C				3,023.78
F	Transportation @ 7.5% of C				11,339.16
G	Erection Charges for PSC Pole @ 20%				8,750.88
H	Erection Charges of DTR and Joist Poles @ 5%				-
I	Erection Charges of other @ 10%				9,226.63
J	Sub Total Rs.				1,88,064.94
Civil and Services Works (As per Technical Specification)					
20	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	8	2250	18000
21	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	4.5	6500.00	29,250.00
22	Installation of Earthpit ,charcoal,salt, etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No	2	2407.00	4,814.00
K	Total Services Cost				52,064.00
L	Total Material + Services Cost (J+K)				2,40,128.94
	Total Estimated Cost				8,38,163.71
	Total Estimated Cost in Figures				8,38,164.00
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/-
Asst. Project Manager (Elect) (Hqr)

Sd/-
Project Manager (Elect.)