

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 :- 01 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO FIRE STATION BUILDING AT KANASA IN THE DIST. OF PURI.

BID REF NO :- 60/PM/ELECT/OPHWC/2022-23

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 CONDUCTOR-0.072 KM 11 KV LINE DP WITH AB SWITCH-1 NO.				
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 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	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 mm2 AAAC	K.M.	0.22248	35,400.00	7875.79
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
A		A. Sub total			37,875.04
B		B. Stock, Storage & Insurance @ 3% of A			1,136.25
C		Sub Total (C=A+B)			39,011.29
D		T&P @ 2% of C			780.23
E		Contingency @ 3% of C			1,170.34
F		Transportation @ 7.5% of C			2,925.85

		Erection Charges @ 5% on poles			1,365.62
G		Erection Charges @ 10%			1,169.94
H		Total			46,423.26
24	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	0.45	6500.00	2,925.00
25	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)				50,079.51
C	DP WITH AB SWITCH				
1	WPB 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No	2	26,516.95	53033.90
2	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 3 mtr., 2 no's channel required =(2x9.56x3)	KG	57.36	88.50	5076.36
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	AB switch Mounting Channel 75X40X4.8mm, 7.14KG/Mtr, each channel length 3 Mtr., 2 no's channel required =(7.14x3x2)	KG	42.84	88.50	3791.34
5	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	6.692	88.50	592.24
6	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	5.712	88.50	505.51
7	Double Pole Belting Channel 75X40X 4.8mm., 7.14KG/Mtr., each channel length 3.0 Mtr., 4 no's channel required =(7.14x3x4)	KG	85.68	88.50	7582.68
8	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr., 4 nos angle required = (4.5x3.512x4)	KG	63.216	88.50	5594.62
9	Danger Plate, 2 no's.	No.	2	94.40	188.80
10	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 2 no's = (2x0.59x0.510)	KG	0.6018	88.50	53.26
11	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	Pair	2	147.50	295.00
12	H.T. Stay set (Complete)	Set	2	1,239.00	2478.00
13	H.T. Stay Insulator Type-C	No.	2	59.00	118.00
14	7/10 SWG Stay Wire 15kg /stay	K.g.	30	88.50	2655.00
15	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	2	1,239.00	2478.00
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	48.38	88.50	4,281.63
17	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	Kg	6	94.40	566.40
18	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	KG	2.4072	88.50	213.04
19	Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	3	4,189.00	12567.00
20	AB Switch (11KV,400A.3pole,50Hz)	Set	1	13,983.00	13983.00

21	11 KV pin insulator polymer	No.	3	236.00	708.00
22	H W fitting(B&S) 70KN, 3Bolt	No.	6	413.00	2478.00
23	Disc insulator (B&S) 70 KN polymer	No.	6	1,357.00	8142.00
24	PG Clamp for 55 sq.mm AAA conductor	NO.	6	566.40	3398.40
25	GI Nut , Bolt & Washer of different sizes (13.718 Kg each DP with AB Switch)	K.g.	13.718	92.04	1262.60
26	Black Paint	Ltr	1	259.60	259.60
27	Yellow Colour Paint for Background	Ltr	2	259.60	519.20
A	A. Sub total				1,33,172.47
B	B. Stock, Storage & Insurance @ 3% of A				3,995.17
C	Sub Total (C=A+B)				1,37,167.64
D	T&P @ 2% of C				2,743.35
E	Contingency @ 3% of C				4,115.03
F	Transportation @ 7.5% of C				10,287.57
	Erection Charges @ 5% on poles				2,731.25
G	Erection Charges @ 10%				7,683.03
H	Total				1,64,727.88
28	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
29	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	0.9	6500.00	5,850.00
30	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.225	6500	1,462.50
31	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
	Total Material + Services Cost (J+K)				1,81,354.38
II	Installation of 1 No. 25 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	25 KVA , 11/ 0.4 KV (AL) Transformer BIS Energy level II	No	1	63484.00	63,484.00
19	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 25 KVA S/S	Set	1	17617.40	17,617.40
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 35 mm ² LT XLPE Cable(Armoured) - FOR 25 KVA Trf.	Mtr.	15	213.38	3,200.70
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				2,39,457.02
B	B. Stock, Storage & Insurance @ 3% of A				7,183.71
C	Sub Total (C=A+B)				2,46,640.74
D	T&P @ 2% of C				4,932.81
E	Contigency @ 3% of C				7,399.22
F	Transportation @ 7.5% of C				18,498.06
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				6,000.67
H	Erection Charges @ 10% for other materials				12,091.43
I	Total				2,95,562.93
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	3,96,230.93
	Total Estimated Cost				7,03,134.92
	Total Estimated Cost in Figures				7,03,135.00
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.)