

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.**JANAPATH, BHOINAGAR, BHUBANESWAR - 22****[Electrical Division]****Ph: 0674-2541545, 2542921, Fax: 0674-2541543****E-mail :- pmelectricalophwc2021@gmail.com, Website: www.ophwc.nic.in****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 28-F, 28-F AND 24-E TYPE QUARTERS AT TULASIPUR POLICE COLONY, CUTTACK .****BID REF NO :- 52/PM/ELECT/OPHWC/2023-24****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	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.25 KM .				
A	MATERIALS OF DP WITHOUT AB SWITCH				
1	WPB GI Pole 160x152 (11Mtr. Long, 30.44 Kg/Mtr.)	No	2	26,516.95	53,033.90
2	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 2.3 mtr., 2 no's channel required =(2x9.56x2.3)	KG	43.976	76.00	3,342.18
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	KG	3.9648	97.50	386.57
4	Double Pole Belting Channel 75X40X 4.8mm., 7.14KG/Mtr., each channel length 1.66 Mtr., 4 no's channel required =(7.14x1.66x4)	KG	47.4096	76.00	3,603.13
5	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 2.671 mtr., 4 nos angle required = (4.5x2.671x4)	KG	48.078	76.00	3,653.93
6	Danger Plate, 2 no's.	No.	2	104.00	208.00
7	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	97.50	58.68
8	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	Pair	2	162.50	325.00
9	H.T. Stay set (Complete)	Set	2	1,365.00	2,730.00
10	H.T. Stay Insulator Type-C	No.	2	65.00	130.00
11	7/10 SWG Stay Wire 15kg /stay	K.g.	30	97.50	2,925.00
12	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	1	1,365.00	1,365.00
13	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 5x2.36	KG	11.8	97.50	1,150.50
14	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	Kg	6	104.00	624.00
15	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	97.50	234.70
16	11 KV pin insulator polymer	No.	3	260.00	780.00

17	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2,730.00
18	Disc insulator (B&S) 70 KN polymer	No.	6	1,495.00	8,970.00
19	PG Clamp for 100 sq.mm AAA conductor	NO.	6	754.00	4,524.00
20	GI Nut , Bolt & Washer of different sizes (12.261 Kg each DP without AB Switch)	K.g.	12.261	101.40	1,243.27
21	Black Paint	Ltr	1	286.00	286.00
22	Yellow Colour Paint for Background	Ltr	2	216.00	432.00
A	A. Sub total				92,735.84
B	B. Stock, Storage & Insurance @ 3% of A				2,782.08
C	Sub Total (C=A+B)				95,517.92
D	T&P @ 2% of C				1,910.36
E	Contingency @ 3% of C				2,865.54
F	Transportation @ 7.5% of C				7,163.84
	Erection Charges @ 5% on poles				2,731.25
G	Erection Charges @ 10%				3,319.38
H	Total				113,508.29
23	Fixing of complete 11KV 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 BA will do the excvation including excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material as per TPCODL Drawing & Standard.	No	2	2250.00	4500.00
24	Concreting ratio 1:1.5:3 (500mmX500mmX1800mm) = 0.45Cu.mtr	Cum	0.9	6500.00	5850.00
25	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cum	0.225	6500.00	1462.50
26	Installation of Earth Pit, Charcoal, Salt etc. including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No	1	3700.00	3700.00
	Total Material + Services Cost				129,020.79
B	MATERIALS OF DP WITH AB SWITCH				
1	WPB GI Pole 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	76.00	4359.36
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	KG	3.9643	97.50	386.52
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	76.00	3255.84
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	76.00	508.59

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	76.00	434.11
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	76.00	6511.68
8	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr., 4 nos angle required = (4.5x3.512x4)	KG	63.216	76.00	4804.42
9	Danger Plate, 2 no's.	No.	2	104.00	208.00
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	97.50	58.68
11	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	Pair	2	162.50	325.00
12	H.T. Stay set (Complete)	Set	2	1,365.00	2730.00
13	H.T. Stay Insulator Type-C	No.	2	65.00	130.00
14	7/10 SWG Stay Wire 15kg /stay	K.g.	30	97.50	2925.00
15	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	2	1,365.00	2730.00
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	97.50	4717.05
17	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	Kg	6	104.00	624.00
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	97.50	234.70
19	Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	3	4,615.00	13845.00
20	AB Switch (11KV,400A.3pole,50Hz)	Set	1	15,405.00	15405.00
21	11 KV pin insulator polymer	No.	3	260.00	780.00
22	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
23	Disc insulator (B&S) 70 KN polymer	No.	6	1,495.00	8970.00
24	PG Clamp for 100 sq.mm AAA conductor	NO.	6	754.00	4524.00
25	GI Nut , Bolt & Washer of different sizes (13.718 Kg each DP with AB Switch)	K.g.	13.718	101.40	1391.01
26	Black Paint	Ltr	1	286.00	286.00
27	Yellow Colour Paint for Background	Ltr	2	216.00	432.00
A	A. Sub total				136,339.85
B	B. Stock, Storage & Insurance @ 3% of A				4,090.20
C	Sub Total (C=A+B)				140,430.05
D	T&P @ 2% of C				2,808.60
E	Contingency @ 3% of C				4,212.90
F	Transportation @ 7.5% of C				10,532.25
	Erection Charges @ 5% on poles				2,731.25
G	Erection Charges @ 10%				7,670.00
H	Total				168,385.05

28	Fixing of complete 11KV 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 BA will do the excavation including excvaton, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material as per TPCODL Drawing & Standard.	No	2	2250.00	4500.00
29	Concreting ratio 1:1.5:3 (500mmX500mmX1800mm) = 0.45Cu.mtr	Cum	0.9	6500.00	5850.00
30	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cum	0.225	6500.00	1462.50
31	Installation of Earth Pit, Charcoal, Salt etc. including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No	2	3700.00	7400.00
	Total Material + Services Cost (J+K)				187,597.55
C	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
2	HT Stay Set (Complete)	Set	2	1365.00	2730.00
3	HT Stay Insulator	No.	2	65.00	130.00
4	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
A	A. Sub total				6,110.00
B	B. Stock, Storage & Insurance @ 3% of A				183.30
C	Sub Total (C=A+B)				6,293.30
D	T&P @ 2% of C				125.87
E	Contingency @ 3% of C				188.80
F	Transportation @ 7.5% of C				472.00
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				
H	Total				7,079.96
5	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	2250.00	4500.00
6	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
7	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)				15,236.21
B	11 KV PIN POINTS WITH WPB				

1	WPB GI Pole 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No	1	26516.95	26516.95
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	100 sq. mm AAAC	Mtr.	772.5	71.50	55233.75
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				85,447.13
B	B. Stock, Storage & Insurance @ 3% of A				2,563.41
C	Sub Total (C=A+B)				88,010.54
D	T&P @ 2% of C				1,760.21
E	Contingency @ 3% of C				2,640.32
F	Transportation @ 7.5% of C				6,600.79
	Erection Charges @ 5% on poles				1,365.62
G	Erection Charges @ 10%				6,069.87
H	Total				106,447.35
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)=0.113 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	Total Material + Services Cost (J+K)				110,103.60
II	11 KV LINE PROTECTING GUARDING 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)	Kg	62.832	76.00	4775.23
2	No-6 GI wire (0.192 Kg/Mtr.)for main string	Kg	15.36	97.50	1497.60
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	3.275	97.50	319.31
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)				14,558.28
B	Stock, Storage & Insurance @ 3% of A				436.75
C	Sub Total (C=A+B)				14,995.03
D	Contingency @3% of C				449.85
E	T & P 2% of C				299.90

F	Transportation @ 7.5% of C				1,124.63
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,218.31
J	Sub Total Rs.				18,087.72
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.				25,487.72
III	Dismantling charges				
1	Dismantling of RS Joist Pole	No	3	1350.00	4,050.00
2	Dismantling of 80 sq. mm AAAC	Mtr.	400	9.00	3,600.00
3	Dismantling of PSC Pole	No	6	900.00	5,400.00
	Total Rs.				13,050.00
	Total Estimated Cost				480,495.88
	Total Estimated Cost in Figures				480,496.00
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.)