

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 :- DIVERSION OF EXISTING 33 KV LINE FOR CONSTRUCTION OF TRUCK TERMINAL AT KATADA IN THE DISTRICT OF ANGUL.

BID REF NO :- 29/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 33 KV LINE OF LENGTH 1.2 KM .				
A	33 KV DP WITHOUT ISOLATOR				
1	WPB (GI) Pole 160x152 (13Mtr. Long, 30.44KG/Mtr.)	No.	8	34322.00	274576.00
2	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 3.25 mtr., 2 no's channel required =(2x9.56x3.25)	Kg	248.56	76.00	18890.56
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	Kg	15.8592	97.50	1546.27
4	Double Pole Belting Channel 75X40X 4.8mm., 7.14KG/Mtr., each channel length 1.96 Mtr., 5 no's channel required =(5x7.14x1.96)	Set	279.888	76.00	21271.49
5	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.432 mtr., 4 nos angle required = (4*4.5*3.432)	No.	247.104	76	18779.90
6	Danger Plate, 2 no's.	No.	8	104.00	832.00
7	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 2 no's = (2x0.59x0.510)	No	2.4072	97.50	234.70
8	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.511 Mtr. Length, 2 no's qty. required (1 Pair)	No	8	162.50	1300.00
9	H.T. Stay set (Complete)	Pair	8	1365.00	10920.00
10	H.T. Stay Insulator Type-C (2 No's.)	Set	16	65.00	1040.00
11	7/8 SWG Stay Wire 15kg /stay	No.	120	97.50	11700.00
12	Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	4	1365.00	5460.00
13	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 5x2.36	Kg	47.2	97.50	4602.00
14	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	24	104.00	2496.00
15	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	Kg	9.6288	97.50	938.81
16	33KV pin insulator polymer	Set	12	624.00	7488.00

17	Non metallic Ties for 33KV (for covered conductor)	No	12	331.00	3972.00
18	IPC for 241 sq. mm AAA conductor	No	24	915.00	21960.00
19	Spike(GI) using 50x6 mm flat welded with 8 mm square bar)(2 Nos. spike per set in each pole)	Set	16	332.00	5312.00
20	H W fitting(B&S) 90KN,4 Bolt	No.	24	650.00	15600.00
21	Disc insulator (B&S) 90 KN polymer	No.	24	1495.00	35880.00
22	GI Nut , Bolt & Washer of different sizes (12.261 Kg each DP without Isolator)	Kg	49.044	101.40	4973.06
23	Black Paint	Ltr.	4	286.00	1144.00
24	Yellow Colour Paint for Background	Ltr.	8	216.00	1728.00
A	A. Sub total				4,72,644.80
B	B. Stock, Storage & Insurance @ 3% of A				14,179.34
C	Sub Total (C=A+B)				4,86,824.14
D	T&P @ 2% of C				9,109.83
E	Contingency @ 3% of C				14,604.72
F	Transportation @ 7.5% of C				36,511.81
G	Erection Charges @ 5% on poles				14,140.66
H	Erection Charges @ 10%				17,267.83
I	Total				5,78,458.99
25	Fixing of 33KV 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.)	EA	8	2250.00	18000.00
26	Concreting ratio 1:1.5:3 (500mmX500mmX2200mm) = 0.55Cu.mtr	Cu.mtr	4.4	6500.00	28600.00
27	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cu.mtr	0.9	6500.00	5850.00
28	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe .	No.	4	3700.00	14800.00
	Total Material + Services Cost				6,45,708.99
B	33 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB (GI) Pole 160x152 (13Mtr. Long, 30.44KG/Mtr.)	No.	2	34322.00	68644.00
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	130.016	76.00	9881.22
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	21.1456	97.50	2061.70
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	23.4028	76.00	1778.61
5	Danger Plate, 1 no's.	No.	2	104	208.00

6	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	0.6018	97.5	58.68
7	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	6	104.00	624.00
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	2.4072	97.50	234.70
9	33KV pin insulator polymer	Set	8	624.00	4992.00
10	H W fitting(B&S) 90KN,4 Bolt	No.	12	650.00	7800.00
11	Disc insulator (B&S) 90 KN polymer	No.	12	1495.00	17940.00
12	Non metallic Ties for 33KV (for covered conductor)	No	8	331.00	2648.00
13	IPC for 241 sq. mm AAA conductor	No	12	915.00	10980.00
14	Spike(GI) using 50x6 mm flat welded with 8 mm square bar)(2 Nos. spike per set in each pole)	Set	4	332.00	1328.00
15	Earthing of Support (Coil Type)	EA	2	215.80	431.60
16	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	0.524	97.50	51.09
17	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.511 Mtr. Length, 2 no's qty. required (1 Pair)	No	2	162.50	325.00
18	H.T. Stay set (Complete)	Pair	2	1365.00	2730.00
19	H.T. Stay Insulator Type-C (2 No's.)	Set	2	65.00	130.00
20	7/8 SWG Stay Wire 15kg /stay	No.	30	97.50	2925.00
21	GI Nut , Bolt & Washer of different sizes (12.261 Kg each DP without Isolator)	Kg	22.62	101.40	2293.67
22	Black Paint	Ltr.	2	286.00	572.00
23	Yellow Colour Paint for Background	Ltr.	4	216.00	864.00
A	A. Sub total				1,39,501.26
B	B. Stock, Storage & Insurance @ 3% of A				4,185.04
C	Sub Total (C=A+B)				1,43,686.30
D	T&P @ 2% of C				2,747.86
E	Contingency @ 3% of C				4,310.59
F	Transportation @ 7.5% of C				10,776.47
G	Erection Charges @ 5% on poles				3,535.17
H	Erection Charges @ 10%				6,668.97
I	Total				1,71,725.36
24	Fixing of 33KV 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.)	EA	2	2250.00	4500.00
25	Concreting ratio 1:1.5:3 (500mmX500mmX2200mm) = 0.55Cu.mtr	Cu.mtr	1.1	6500.00	7150.00
26	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cu.mtr	0.225	6500.00	1462.50
	Total Material + Services Cost				1,84,837.86
C	33 KV PIN POINT				

1	WPB (GI) Pole 160x152 (13Mtr. Long, 30.44KG/Mtr.)	No	19	34322.00	652118.00
2	33 KV V cross Arm (GI) 22Kg each	No.	19	2340	44460.00
3	Top bracket 100x50x6mm GI channel (2kg each)	kG	19	195	3705.00
4	Danger Plate, 1 no's.	No.	19	104	1976.00
5	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	5.715	97.5	557.21
6	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	57	104.00	5928.00
7	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	22.87	97.50	2229.83
8	33KV pin insulator polymer	No.	57	624.00	35568.00
9	Non metallic Ties for 33KV (for covered conductor)	No	57	331.00	18867.00
10	Earthing of Support (Coil Type)	No.	19	215.80	4100.20
11	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	K.g.	4.98	97.50	485.55
12	GI Nut , Bolt & Washer of different sizes (1.45 Kg/ Pin Point)	K.g.	27.55	101.40	2793.57
13	Spike(GI) using 50x6 mm flat welded with 8 mm square bar)(2 Nos. spike per set in each pole)	Set	38	332.00	12616.00
14	241 sq.mm AAA conductor	Mtr.	386	3708.00	1431288.00
15	Crimping type Midspan compression joint for 241 sq. mm AAA conductor	EA	3	4701.00	14103.00
16	Black Paint	Ltr	19	286.00	5434.00
17	Yellow Colour Paint for Background	Ltr	38	216.00	8208.00
A	A. Sub total				22,44,437.36
B	B. Stock, Storage & Insurance @ 3% of A				67,333.12
C	Sub Total (C=A+B)				23,11,770.48
D	T&P @ 2% of C				46,235.41
E	Contingency @ 3% of C				69,353.11
F	Transportation @ 7.5% of C				1,73,382.79
G	Erection Charges @ 5% on poles				33,584.08
H	Erection Charges @ 10%				1,64,008.88
I	Total				27,98,334.75
18	Concreting ratio 1:1.5:3 (500mmX500mmX2200mm) = 0.55Cu.mtr	Cu.mtr	10.45	6500.00	67925.00
19	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cu.mtr	2.1375	6500.00	13893.75
	Total Material + Services Cost				28,80,153.50
II	Dismantling Charges of Line and Pole (Including Loading,Unloading and Transportation charges from site to section office store and as per detail estimate of TPCODL)	LS	1	123590.32	1,23,590.32
	Total Rs.				38,34,290.67
	Cess @ 1%				38342.91

	Total Estimated Cost				38,72,633.58
	Total Estimated Cost in Figures				38,72,634.00
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 I/C (Elect)