

**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 :- 04 AS PER IFB**

**NAME OF THE WORK :- SHIFTING AND RECONSTRUCTION OF 11 KV LINE FROM CONSTRUCTION SITE OF AMA BUS STAND (ABS) AT MANIKUNDALA IN THE DISTRICT OF JAGATSINGHPUR.**

**BID REF NO :- 03/PM/ELECT/OPHWC/2024-25**

**SCHEDULE OF WORKS**

**11kV Line Length with 40 Mtr. Span using 80 SQ.MM. -AAA Conductor**

**MATERIALS OF DP Without AB Switch**

SL NO.	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 (13 Mtr. Long, 30.44KG/Mtr.)	No	31,200.00	2	62,400.00
2	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 2.3 mtr., 2 no's channel required =( 2x9.56x2.3)	KG	76.00	43.976	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	97.50	3.9648	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	76.00	47.4096	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	76.00	48.078	3,653.93
6	Danger Plate, 2 no's.	No.	104.00	2	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	97.50	0.6018	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	162.50	2	325.00
9	H.T. Stay set (Complete )	Set	1,365.00	2	2,730.00
10	H.T. Stay Insulator Type-C	No.	65.00	2	130.00
11	7/10 SWG Stay Wire 15kg /stay	K.g.	97.50	30	2,925.00
12	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	1,365.00	1	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	97.50	11.8	1,150.50
14	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	Kg	104.00	6	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	97.50	2.4072	234.70
16	11 KV pin insulator polymer	No.	260.00	3	780.00
17	H W fitting(B&S) 70KN, 3Bolt	No.	455.00	6	2,730.00
18	Disc insulator (B&S) 70 KN polymer	No.	1,495.00	6	8,970.00
19	PG Clamp for 80 sq.mm AAA conductor	NO.	689.00	6	4,134.00
20	GI Nut , Bolt & Washer of different sizes (12.261 Kg each DP without AB Switch)	K.g.	101.40	12.261	1,243.27
21	Black Paint	Ltr	286.00	1	286.00
22	Yellow Colour Paint for Background	Ltr	216.00	2	432.00
<b>A</b>	<b>Total Cost of materials</b>				<b>1,01,711.94</b>
<b>B</b>	Stock, Storage & Insurance i.e 3% of A				3,051.36
<b>C</b>	<b>Sub Total (A+B)</b>				<b>1,04,763.30</b>
<b>D</b>	Contingency @ 3% of C				3,142.90
<b>E</b>	Tools & Plants @ 2% of C				2,095.27
<b>F</b>	Transportation @ 7.5% of C				7,857.25
<b>G</b>	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole				3,213.60
<b>H</b>	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pipe/PSC pole)				3,279.21
<b>I</b>	Erection Charges @ 20% of PSC pole- Not to be used for 33kv				-
<b>J</b>	<b>Sum of (C to I)</b>				<b>1,24,351.52</b>

**Civil & Services**

	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
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 excavation including excavation, 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.	2,250.00	2	4,500.00
24	Concreting ratio 1:1.5:3 (500mmX500mmX1800mm) = 0.45Cu.mtr	Cu.mtr	6,500.00	0.90	5,850.00
25	Couping ratio 1:1.5:3 with dimension (500X500X450)= 0.1125 Cu mtr	Cu.mtr	6,500.00	0.23	1,462.50
26	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.	3,700.00	1	3,700.00
<b>K</b>	<b>Total Civil &amp; Services</b>				<b>15,512.50</b>
	<b>Total (J+K)</b>				<b>1,39,864.02</b>

**MATERIALS OF DP With AB Switch**

	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 (13 Mtr. Long, 30.44KG/Mtr.)	No	31,200.00	2	62,400.00
2	Top Channel 100X50X6mm, 9.56 KG/Mtr., each channel length 3 mtr., 2 no's channel required =( 2x9.56x3)	KG	76.00	57.36	4,359.36
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	KG	97.50	3.9648	386.57
4	AB switch Mounting Channel 75X40X4.8mm, 7.14KG/Mtr, each channel length 3 Mtr., 2 no's channel required =( 7.14x3x2)	KG	76.00	42.84	3,255.84
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	76.00	6.692	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	76.00	5.712	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	76.00	85.68	6,511.68
8	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 3.512 mtr., 4 nos angle required = (4.5x3.512x4)	KG	76.00	63.216	4,804.42
9	Danger Plate, 2 no's.	No.	104.00	2	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	97.50	0.6018	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	162.50	2	325.00
12	H.T. Stay set (Complete )	Set	1,365.00	2	2,730.00
13	H.T. Stay Insulator Type-C	No.	65.00	2	130.00
14	7/10 SWG Stay Wire 15kg /stay	K.g.	97.50	30	2,925.00
15	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	1,365.00	2	2,730.00
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	97.50	48.38	4,717.05
17	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	Kg	104.00	6	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	97.50	2.4072	234.70

19	Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	4,615.00	3	13,845.00
20	AB Switch (11KV,400A.3pole,50Hz)	Set	15,405.00	1	15,405.00
21	11 KV pin insulator polymer	No.	260.00	3	780.00
22	H W fitting(B&S) 70KN, 3Bolt	No.	455.00	6	2,730.00
23	Disc insulator (B&S) 70 KN polymer	No.	1,495.00	6	8,970.00
24	PG Clamp for 80 sq.mm AAA conductor	NO.	689.00	6	4,134.00
25	GI Nut , Bolt & Washer of different sizes (13.718 Kg each DP with AB Switch)	K.g.	101.40	13.718	1,391.01
26	Black Paint	Ltr	286.00	1	286.00
27	Yellow Colour Paint for Background	Ltr	216.00	2	432.00
<b>A</b>	<b>Total Cost of materials</b>				<b>1,45,316.00</b>
<b>B</b>	Stock, Storage & Insurance i.e 3% of A				4,359.48
<b>C</b>	<b>Sub Total (A+B)</b>				<b>1,49,675.48</b>
<b>D</b>	Contingency @ 3% of C				4,490.26
<b>E</b>	Tools & Plants @ 2% of C				2,993.51
<b>F</b>	Transportation @ 7.5% of C				11,225.66
<b>G</b>	Erection Charges @ 5% on Trf/Breaker/Joist				3,213.60
<b>H</b>	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/GI Pole/PSC pole)				7,629.83
<b>I</b>	Erection Charges @ 20% of PSC pole- Not to be used for 33kv				-
<b>J</b>	<b>Sum of (C to I)</b>				<b>1,79,228.34</b>

**Civil & Services**

	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
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 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.	2,250.00	2	4,500.00
29	Concreting ratio 1:1.5:3 (500mmX500mmX1800mm) = 0.45Cu.mtr	Cu.mtr	6,500.00	0.90	5,850.00
30	Couping ratio 1:1.5:3 with dimension ( 500X500X450)= 0.1125 Cu mtr	Cu.mtr	6,500.00	0.23	1,462.50
31	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.	3,700.00	2	7,400.00
<b>K</b>	<b>Total Civil &amp; Services</b>				<b>19,212.50</b>
	<b>Total (J+K)</b>				<b>1,98,440.84</b>

**MATERIALS FOR 11 KV Cut Point with 90 Degree Angle**

	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No	26,516.95	2	53,033.90
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =( 4x9.56x1.2)	KG	76.00	91.776	6,974.98
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required = (16x2.36x0.280)	K.g.	97.50	21.1456	2,061.70
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =( 4x9.56x0.306)	KG	76.00	23.40288	1,778.62
5	Danger Plate, 1 no's.	No.	104.00	2	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	97.50	0.6018	58.68
7	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	104.00	6	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	97.50	2.4072	234.70
9	11 KV pin insulator polymer	No.	260.00	8	2,080.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	455.00	12	5,460.00
11	Disc insulator (B&S) 70 KN polymer	No.	1,495.00	12	17,940.00
12	Earthing of Support ( Coil Type )	EA	215.80	2	431.60
13	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	K.g.	97.50	0.524	51.09
14	PG Clamp for 80 sq.mm AAA conductor	NO.	689.00	12	8,268.00
15	H.T. Stay clamp, 50x8 mm. flat, 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required ( 1 Pair)	Pair	162.50	4	650.00
16	H.T. Stay set (Complete )	Set	1,365.00	4	5,460.00
17	H.T. Stay Insulator Type-C	No.	65.00	4	260.00
18	7/10 SWG Stay Wire 15kg /stay	K.g.	97.50	60	5,850.00
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each Cut Pole)	K.g.	101.40	14.866	1,507.41
20	Black Paint	Ltr	286.00	1	286.00
21	Yellow Colour Paint for Background	Ltr	216.00	4	864.00
<b>A</b>	<b>Total Cost of materials</b>				<b>1,14,082.67</b>
<b>B</b>	Stock, Storage & Insurance i.e 3% of A				3,422.48
<b>C</b>	<b>Sub Total (A+B)</b>				<b>1,17,505.15</b>
<b>D</b>	Contingency @ 3% of C				3,525.15
<b>E</b>	Tools & Plants @ 2% of C				2,350.10
<b>F</b>	Transportation @ 7.5% of C				8,812.89
<b>G</b>	Erection Charges @ 5% on Trf/Breaker/Joist				2,731.25
<b>H</b>	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/PSC pole)				5,029.36
<b>I</b>	Erection Charges @ 20% of PSC pole- Not to be used for 33kv				-
<b>J</b>	<b>Sum of (C to I)</b>				<b>1,39,953.90</b>

**Civil & Services**

	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
22	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.	2,250.00	4	9,000.00
23	Concreting ratio 1:1.5:3 (500mmX500mmX1800mm) = 0.45Cu.mtr	Cu.mtr	6,500.00	0.9	5,850.00
24	Couping ratio 1:1.5:3 with dimension ( 500X500X450)= 0.1125 Cu mtr	Cu.mtr	6,500.00	0.2	1,462.50
<b>K</b>	<b>Total Civil &amp; Services</b>				<b>16,312.50</b>
	<b>Total (J+K)</b>				<b>1,56,266.40</b>
	<b>11 Kv Line Length In KM with 40 Mtr. Span</b>			0.4	

**MATERIALS FOR 11 KV Pin Points With WPB**

	Description of Materials	Unit	Unit Rate	Total Quantity	Total Amount
1	WPB (GI) Pole 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No.	26,516.95	8	2,12,135.60
2	11 KV V cross Arm (10.2 K.g. each )	No.	1,053.00	8	8,424.00
3	Top bracket 100x50X6 mm GI channel (2kg each)	No.	195.00	8	1,560.00
4	Danger Plate, 1 no's. for each pole	No.	104.00	8	832.00
5	Back Clamp for danger Plate 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 1 no's = (1x0.59x0.510)	KG	97.50	2.41	234.70
6	GI barbed wire anticlimbing device 3 Kg. Per support	Kg	104.00	24.00	2,496.00
7	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 4 no's = (4x0.59x0.510)	KG	97.50	9.63	938.81

8	11 KV pin insulator polymer, 3 Nos. required for each support	No.	260.00	24	6,240.00
9	Earthing of Support ( Coil Type )	No.	215.80	8	1,726.40
10	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	K.g.	97.50	2.10	204.36
11	GI Nut , Bolt & Washer of different sizes (1.45 Kg/ Pin Point)	K.g.	101.40	11.60	1,176.24
12	80 mm2 AAAC	K.M.	55,900.00	1.24	69,092.40
13	Black Paint	Ltr	286.00	8.0	2,288.00
14	Yellow Colour Paint for Background	Ltr	216.00	16.0	3,456.00
<b>A</b>	<b>Total Cost of materials</b>				<b>3,10,804.51</b>
<b>B</b>	Stock, Storage & Insurance i.e 3% of A				9,324.14
<b>C</b>	<b>Sub Total (A+B)</b>				<b>3,20,128.65</b>
<b>D</b>	Contingency @ 3% of C				9,603.86
<b>E</b>	Tools & Plants @ 2% of C				6,402.57
<b>F</b>	Transportation @ 7.5% of C				24,009.65
<b>G</b>	Erection Charges @ 5% on Trf/Breaker/WPB/ H-Pole				10,924.98
<b>H</b>	Erection Charges @ 10% of C (except Trf/Breaker/WPB/ H-Pole/HT stay set/PSC pole)				10,162.90
<b>I</b>	Erection Charges @ 20% of PSC pole- Not to be used for 33kv				-
<b>J</b>	<b>Sum of (C to I)</b>				<b>3,81,232.61</b>

**Civil & Services**

15	Concreting ratio 1:1.5:3 (500mmX500mmX1800mm) = 0.45Cu.mtr	Cu.mtr	6,500.00	3.60	23,400.00
16	Couping ratio 1:1.5:3 with dimension ( 500X500X450)= 0.1125 Cu mtr	Cu.mtr	6,500.00	0.90	5,850.00
<b>K</b>	<b>Total Civil &amp; Services</b>				<b>29,250.00</b>
	<b>Total Material+Services (I+K)</b>				<b>4,10,482.61</b>
	Total Rs.				<b>9,05,053.88</b>
	Cess @ 1%				<b>9,050.54</b>
	Total Estimated Cost				<b>9,14,104.41</b>
	Total Estimated Cost in Figures				<b>9,14,104.00</b>
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/-  
DM(Elect)I/C**

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