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 :- 02 AS PER IFB

NAME OF THE WORK :-EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO BUS STAND AT MANIKUNDA UNDER ERASAMA BLOCK IN THE DISTRICT OF JAGATSINGHPUR.

BID REF NO :-50/PM/ELECT/OPHWC/2025-26

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**				
A	**11 KV CUT POINT WITH T-OFF**				
1	11 Mtr. Long , H Pole(GI)	No	1	68,021.12	68,021.12
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	45.9	106.50	4,888.35
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.6	106.50	1,128.90
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	11.7	106.50	1,246.05
5	Danger plate	No	1	113.60	113.60
6	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	106.50	31.95
7	GI barbed wire/Anticlimbing device	No	3	113.60	340.80
8	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	106.50	127.80
9	11 KV pin insulator polymer	Set	5	284.00	1,420.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	9	497.00	4,473.00
11	Disc insulator (B&S) 70 KN polymer	No.	9	1,633.00	14,697.00
12	Earthing of Support (Coil Type)	No	1	235.72	235.72
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.26	106.50	27.69
14	Wedge connector for 55 sq. mm conductor	No	9	100.00	900.00
15	Polycarbonate Bird Guard	No	14	29.40	411.60
16	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	3.55	110.76	393.20
17	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr	2	216.00	432.00
18	Black paint (GIS Numbering & Zebra stripping)	Ltr	0.5	312.40	156.20

A	A. Sub total				99,044.98
B	B. Stock, Storage & Insurance @ 3% of A				2,971.35
C	Sub Total (C=A+B)				102,016.33
D	T&P @ 2% of C				2,040.33
E	Contigency @ 3% of C				3,060.49
F	Transportation @ 7.5% of C				7,651.22
	Erection Charges @ 5% on poles				3,503.08
G	Erection Charges @ 10%				3,195.46
H	Total				121,466.91
19	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	Cum	0.45	6,648.85	2,991.98
20	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	Cum	0.1125	6,648.85	748.00
	Total Material + Services Cost (J+K)				125,206.89
B	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	11 Mtr. Long , H Pole(GI)	No	3	68,021.12	204,063.36
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	137.664	106.50	14,661.22
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	31.7184	106.50	3,378.01
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	35.1043	106.50	3,738.61
5	Danger plate	No	3	113.60	340.80
6	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.9027	106.50	96.14
7	GI barbed wire/Anticlimbing device	No	9	113.60	1,022.40
8	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	3.6108	106.50	384.55
9	11 KV pin insulator polymer	Set	12	284.00	3,408.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	18	497.00	8,946.00
11	Disc insulator (B&S) 70 KN polymer	No.	18	1,633.00	29,394.00
12	Earthing of Support (Coil Type)	No	3	235.72	707.16
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.786	106.50	83.71
14	Wedge connector for 55 sq. mm conductor	No	18	100.00	1,800.00
15	Polycarbonate Bird Guard	No	30	29.40	882.00
16	H.T. Stay clamp, 50x8 mm. Flat(GI), 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	EA	6	177.50	1,065.00
17	H.T. Stay set (Complete)	SET	6	1,491.00	8,946.00
18	H.T. Stay Insulator Type-C	EA	6	71.00	426.00
19	7/10 SWG Stay Wire 15kg /stay	KG	90	106.50	9,585.00
20	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	22.299	110.76	2,469.84

21	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr	6	216.00	1,296.00
22	Black paint (GIS Numbering & Zebra stripping)	Ltr	1.5	312.40	468.60
A				**A. Sub total**	**297,162.39**
B				**B. Stock, Storage & Insurance @ 3% of A**	**8,914.87**
C				**Sub Total (C=A+B)**	**306,077.26**
D				**T&P @ 2% of C**	**5,709.09**
E				**Contigency @ 3% of C**	**9,182.32**
F				**Transportation @ 7.5% of C**	**22,955.79**
				Erection Charges @ 5% on poles	**10,509.26**
G				**Erection Charges @ 10%**	**7,526.93**
H				**Total**	**361,960.65**
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	6	2,301.53	13,809.18
24	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	Cum	1.35	6,648.85	8,975.95
25	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	Cum	0.3375	6,648.85	2,243.99
				Total Material + Services Cost (J+K)	**386,989.77**
C	**11 KV PIN POINTS WITH WPB**				
1	11 Mtr. Long , H Pole(GI)	No	9	68,021.12	612,190.08
2	11 KV V cross arm	No	9	1,150.20	10,351.80
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	9	213.00	1,917.00
4	Danger plate	No	9	113.60	1,022.40
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	2.71	106.50	288.62
6	GI barbed wire/Anticlimbing device	No	27	113.60	3,067.20
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	10.83	106.50	1,153.40
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	27	284.00	7,668.00
9	Earthing of Support (Coil Type)	No	9	235.72	2,121.48
10	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	2.36	106.50	251.34

11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	13.05	110.76	1,445.42
12	55 sq. mm AAAC	Km	1.55	42,600.00	65,817.00
13	Yellow colour paint for Background	Ltr	18	216.00	3,888.00
14	Black colour paint for numbering	Ltr	9	312.40	2,811.60
15	Polycarbonate Bird Guard	No	27	29.40	793.80
A	**A. Sub total**				**714,787.13**
B	**B. Stock, Storage & Insurance @ 3% of A**				**21,443.61**
C	**Sub Total (C=A+B)**				**736,230.74**
D	**T&P @ 2% of C**				**14,724.61**
E	**Contigency @ 3% of C**				**22,086.92**
F	**Transportation @ 7.5% of C**				**55,217.31**
		Erection Charges @ 5% on poles			**31,527.00**
G	**Erection Charges @ 10%**				**10,567.48**
H	**Total**				**870,354.06**
16	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	4.05	6,648.85	26,927.84
17	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	1.0125	6,648.85	6,731.96
II	**Total Material + Services Cost (J+K)**				**904,013.87**
	INSTALLATION OF 250 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36,804.27	73,608.54
2	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	106.50	6,108.84
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	106.50	422.25
4	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	106.50	4,562.46
5	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	106.50	712.49
6	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)each channel length 0.8 Mtr.	Kg	5.711	106.50	608.22
7	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	106.50	4,562.46
8	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	106.50	1,232.21
9	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	106.50	1,229.01
10	Double pole Belting Channel 75X40X 4.8mm.,3000 mm Long, 7.14KG/Mtr., 2 Nos.	Kg	42.84	106.50	4,562.46
11	50X50X6 mm.GI Bracing Angle,4.5 Kg/Mtr.,3512 mm Long, 4.5KG/Mtr., 2 Nos.	Kg	31.608	106.50	3,366.25
12	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	154.81	106.50	16,487.27
13	250 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II	No	1	619,789.27	619,789.27

14	LT Distrubution Box with MCCB, Aluminim Busbar of 3 Bay with kit kat Fuse for 250 KVA S/S.	No	1	68,160.00	68,160.00
15	55 sq. mm AAAC XLPE covered conductor	Mtr	50	99.74	4,987.00
16	1Cx400 sq. mm LT XLPE cable	Mtr	120	363.08	43,569.60
17	LT Cable Supporting Channel(GI) 100 X 50 X 6 MM GI Channel(GI) (2000 mm long)(9.56 Kg./Mtr., 2 No's.) (Each 2x2x9.56= 28.56 Kg)	Kg	38.24	106.50	4,072.56
18	LT Cable Supproting Angle(GI), 50x50x6mm.GI 4.5Kg./mtr., each Angle(GI) length 2 mtr., 4 nos Angle(GI) required = (4.5x4x2)	Kg	36	106.50	3,834.00
19	11 KV AB switch (200 Amp, 3 pole)	Set	1	10,437.00	10,437.00
20	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	8,690.00	8,690.00
21	Wedge connector for 55 sq. mm conductor	EA	6	100.00	600.00
22	Polycarbonate Bird Guard	No	6	29.40	176.40
23	11 KV Disc insulator polymer type 70 KN	No	3	1,633.00	4,899.00
24	11 KV H/W fitting polymer type	Pair	3	497.00	1,491.00
25	11 KV LA (12KV,10 KA)station class-2	No	3	5,041.00	15,123.00
26	11 KV Pin Insulator polymer type	No	3	284.00	852.00
27	HT Stay Set (Complete)	Set	2	1,491.00	2,982.00
28	HT Stay Insulator	No.	2	177.50	355.00
29	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	71.60	143.20
30	7/10 SWG Stay Wire	KG	30	106.50	3,195.00
31	GI Pipe for earthing 40mm dia 3mtr long	No	7	1,491.00	10,437.00
32	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2,769.00
33	GI barbed wire/Anticlimbing device	No	6	113.60	681.60
34	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	2.4072	106.50	256.37
35	Danger plate	Kg	2	113.60	227.20
36	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.6018	106.50	64.09
37	Name Plate	No	1	113.60	113.60
	Structure Numbering and marking				
38	Yellow colour paint for Background	Ltr	2	216.00	432.00
39	Black colour paint for numbering	Ltr	1	312.40	312.40
A	**A. Sub total**				**926,111.74**
B	**B. Stock, Storage & Insurance @ 3% of A**				**27,783.35**
C	**Sub Total (C=A+B)**				**953,895.09**
D	**T&P @ 2% of C**				**17,827.87**
E	**Contigency @ 3% of C**				**28,616.85**
F	**Transportation @ 7.5% of C**				**71,542.13**
G	**Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%**				**35,709.98**
H	**Erection Charges @ 20% on PSC Poles**				
I	**Erection Charges @ 10% for other materials**				**17,719.31**
J	**Total**				**1,125,311.23**
40	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6,648.85	5,983.97
41	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.226	6,648.85	1,502.64

42	PCC ratio 1:3:6(M-10) grade for DSS area (3.5x2.5x0.1)=0.875 Cu Mtr.	Cu. Mtr	0.875	5,247.48	4,591.55
43	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	2,301.53	4,603.06
44	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	7	3,784.73	26,493.11
45	LT DB Plinth	No	1	6,000.00	6,000.00
46	DTR Plinth upto 1000 KVA	No	1	28,000.00	28,000.00
47	Laying of 1Cx400 sq.mm LT XLPE cable	Mtr.	120	96.66	11,599.20
48	Supply and Erection of GI fencing with Gate	Sq. Mtr.	18	3,682.44	66,283.92
50	Supply of AL Lugs suitable for 400 sq mm cable/conductor, Crimping with cable and Fixing/connecting include supply and erection of PVC Tape as per voltage requirement.	No	16	322.21	5,155.36
51	Supply and erection of double Compression Flameproof Type Glanding for armored Cable 1C 300-1000 sqmm including making hole in Base plate and dressing of cable along with vermin proofing properly .Supply to be done as per TPCODL Spec and approved make dowells.	No	8	1,227.48	9,819.84
					170,032.64
	Sub total Rs				**1,295,343.87**
III	**Supply and Laying of 1.1 KV LT U/G Cable with one run spare using 4 C x 35 Sq. mm of length 10 Mtr. In RCC trench.**				
1	**Supply of materials for 1.1 KV XLPE insulation armoured UG cablele with accessories-Open trench (along with spare cable)**				
A	**Length of 1.1 KV, 4C, 35 sq. mm XLPE insulation armoured-Aluminium UG Cable(open trench)**	**Mtr.**	**10**		
1.1	4 core 35 sq. mm XLPE insulation armoured - Aluminium UG Cable	Mtr	20	268.02	5,360.40
2	**supply of 1.1 KV Multimeter Panel**				
a	No. of 1.1 KV I/C -160 A & 6 Nos. of O/G 32 A				
2.1	Supply of 1.1 KV I/C-250 A & 29 Nos. of O/G 32A	Nos	5	212,000.00	1,060,000.00
2.1	Supply of 1.1 KV I/C-160 A & 6 Nos. of O/G 32A	No	1	125,000.00	125,000.00
3	**Earthing of Multimeter Panel**				
3.1	Earthing conductor 50x6mm (2.4 Kg/Mtr.)GI flat for equipment ,structure etc.)	Kg	13.2	106.50	1,405.80
3.2	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 Mtr. Long	Nos	2	1,491.00	2,982.00

A				**A. Sub total**	**134,748.20**
	Erection Portion				
1	**Laying ,commissioning ,Testing of 1.1 KV , Aluminium, XLPE insulation armoured UG cable by open trench method**				
1.1	Laying of 1.1 KV ,4 core 35 sq. mm XLPE insulation armoured-aluminium UG cable	**Mtr**	**20**	47.87	957.40
2	**SITC of Gland /AL term**				
2.1	Supply and erection of double compression flameproof type glanding for armoured cable 3.5/4 core ,16-35 sq. mm including making hole in Base plate and dressing of cable along with vermin proofing properly .supply to be done as per TPCODL specification and approved make dowells.	**EA**	**4**	368.24	1,472.96
					2,430.36
Civil Portion					
2	**Civil works with supply of all materials like cement, MS tor rod, brick, coarse & fine aggregates and labour, T&P, etc for UG Cable Trench**				
2.1	Earth work excavation of soil(1.6 Mtr. Wx1.275 Mtr. D)	cum	7.139	716.03	5,111.74
2.2	Earth work excavation of Hard rock(1.6 Mtr. Wx1.275 Mtr. D)	Cum	3.06	1759.39	5,383.73
2.3	Back filling with excavated soil outside and above the trench	Cum	2.887	204.58	590.62
2.4	PCC(1:3:6),M-10 Grade below trench (width 1500 mm ,thickness 75 mm throughout)	Cum	0.5625	5247.48	2,951.71
2.5	Supply and Erection of material for RCC partition Slab 750mmx100 mm(M-25 Grade)	Cum	0.4875	7483.54	3,648.23
2.6	Supply and Erection of material for RCC trench (150 mm thick(M-25 Grade)	Cum	2.325	7483.54	17,399.23
2.7	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC trench(65.23 Kg/cum)	Kg	151.66	111.50	16,910.09
2.8	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC slabs(67.8 Kg/cum)	Kg	33	111.50	3,685.35
2.9	Centering and shuttering of mass concrete	M2	19.5	307.89	6,003.86
2.1	Structural steel work riveted (channel GI-75x40x4.8 mm)(Flat GI-75x6mm)	Kg	14.235	130.00	1,850.55
3	**Civil works for Prefabricated RCC foundation with supply of all materials**				
3.1	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.	Set	2	3,784.73	7,569.46
	Sub Total (Civil Portion) (in Rs.)				**71,104.57**

A	**Sub Total (Supply Portion)**	**134,748.20**
B	**Stock, Storage & Insurance @ 3 % of A**	4,042.45
C	**Sub Total (A+B)**	**138,790.65**
D	**Contingency @ 3 % of C**	4,163.72
E	**Tools & Plants Charges @ 2% of C (considered for multimeter panel and earthing items)**	2,603.96
F	**Transportation @ 7.5% of C**	10,409.30
G	**Erection Charges @ 10% of earthing items**	13,019.80
H	**Total (C+D+E+F+G)**	**168,987.42**
I	**Sub Total (Erection Portion + Civil Portion)**	73,534.93
J	**Total Cost (H+I)**	**242,522.35**
	Sub Total Rs.	**2,954,076.75**
	Cess @1%	**29,540.77**
	Total Estimated Cost	**2,983,617.52**
	Total Estimated Cost in Figures	**2,983,618.00**

EXCESS ☐ LESS ☐ (Please Tick)	In Figure ______________ % In word ____%
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/-
Dy. Manager (Elect)

Sd/-
Project Manager (Elect)