

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 :- 06 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 26-F TYPE QUARTERS IN THE CAMPUS OF OSAP 1ST BN., SARAKHIA IN THE DISTRICT OF DHENKANAL.

BID REF NO :- 67/PM/ELECT/OPHWC/2024-25

**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.
PART-A					
I	CONSTRUCTION OF 11 KV LINE .				
A	DP WITHOUT AB SWITCH				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
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	97.50	4287.66
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	97.50	4622.44
5	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 2.671 mtr., 4 nos angle required = (4.5x2.671x4)	KG	48.078	97.50	4687.61
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	1365.00	2730.00
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	2925.00
12	Gi Pipe Earthing 40mm. 3 Mtr. Long	No.	1	1365.00	1365.00
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	1150.50
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	2730.00

18	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
19	Non metallic ties 11 KV(for covered conductor)	No	3	251.00	753.00
20	IPC for 70 sq. mm AAAC covered conductor	No	6	371.00	2226.00
21	Spike(GI) using 50x6 mm GI flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	Set	4	332.00	1328.00
22	GI Nut , Bolt & Washer of different sizes (12.261 Kg each DP without AB Switch)	K.g.	12.261	101.40	1243.27
23	Black Paint	Ltr	2	216.00	432.00
24	Yellow Colour Paint for Background	Ltr	1	286.00	286.00
A	A. Sub total				1,01,805.41
B	B. Stock, Storage & Insurance @ 3% of A				3,054.16
C	Sub Total (C=A+B)				1,04,859.57
D	T&P @ 2% of C				1,943.21
E	Contingency @ 3% of C				3,145.79
F	Transportation @ 7.5% of C				7,864.47
	Erection Charges @ 5% on WPB poles				3,055.08
G	Erection Charges @ 10%				3,605.87
H	Total				1,24,473.99
25	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	2250.00	4500.00
26	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.425 Cu. Mtr.	Cum	0.9	6500.00	5850.00
27	Concreting Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6500.00	1462.50
28	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	1	3700.00	3,700.00
	Total Material + Services Cost (J+K)				1,39,986.49
B	11 KV CUT POINT WITH 180 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	22.9	97.50	2232.75
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.3	97.50	516.75
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	5.9	97.50	575.25
5	Danger plate	No	1	104.00	104.00

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	97.50	29.25
7	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	97.50	117.00
9	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	3	260.00	780.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	6	455.00	2730.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1495.00	8970.00
12	Non metallic ties 11 KV(for covered conductor)	No	3	251.00	753.00
13	IPC for 70 sq. mm AAAC covered conductor	No	6	371.00	2226.00
14	Spike(GI) using 50x6 mm GI flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	Set	2	332.00	664.00
15	Earthing of Support (Coil Type)	No	1	215.80	215.80
16	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
17	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	3.55	101.40	359.97
18	Yellow colour paint for Background	Ltr	2	216.00	432.00
19	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				50,847.12
B	B. Stock, Storage & Insurance @ 3% of A				1,525.41
C	Sub Total (C=A+B)				52,372.53
D	T&P @ 2% of C				1,047.43
E	Contingency @ 3% of C				1,571.18
F	Transportation @ 7.5% of C				3,927.94
		Erection Charges @ 5% on WPB poles			1,527.54
G		Erection Charges @ 10%			2,182.05
H	Total				62,628.67
20	Concreting Ratio 1:1:5:3(500 mmx500mmx1700 mm)=0.425 Cu. Mtr.	Cum	0.45	6500.00	2925.00
21	Concreting 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)				66,284.92
C	11 KV CUT POINT WITH 90 DEGREE ANGLE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	74.678	97.50	7281.11
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	10.5728	97.50	1030.85
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	97.50	1140.89
5	Danger plate	No	1	104.00	104.00

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	0.3009	97.50	29.34
7	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.2036	97.50	117.35
9	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	6	260.00	1560.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	9	455.00	4095.00
11	Disc insulator (B&S) 70 KN polymer	No.	9	1495.00	13455.00
12	Non metallic ties 11 KV(for covered conductor)	No	6	251.00	1506.00
13	IPC for 70 sq. mm AAAC covered conductor	No	12	371.00	4452.00
14	Spike(GI) using 50x6 mm GI flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	Set	2	332.00	664.00
15	Earthing of Support (Coil Type)	No	1	215.80	215.80
16	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.262	97.50	25.55
17	HT Stay Set (Complete)	Set	2	1365.00	2730.00
18	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
19	HT Stay Insulator	No.	2	65.00	130.00
20	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
21	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	101.40	753.71
22	Yellow colour paint for Background	Ltr	2	216.00	432.00
23	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				73,088.58
B	B. Stock, Storage & Insurance @ 3% of A				2,192.66
C	Sub Total (C=A+B)				75,281.24
D	T&P @ 2% of C				1,496.13
E	Contingency @ 3% of C				2,258.44
F	Transportation @ 7.5% of C				5,646.09
		Erection Charges @ 5% on WPB poles			1,527.54
G	Erection Charges @ 10%				3,854.16
H	Total				90,063.60
24	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	2250.00	4500.00
25	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
26	Concreting 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)				98,219.85

D	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	15	29661.00	444915.00
2	11 KV V cross arm	No	15	1053.00	15795.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	15	195.00	2925.00
4	Danger plate	No	15	104.00	1560.00
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	4.51	97.50	439.73
6	GI barbed wire/Anticlimbing device	No	45	104.00	4680.00
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	18.05	97.50	1759.88
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	45	260.00	11700.00
9	Non metallic ties 11 KV(for covered conductor)	No	45	251.00	11295.00
10	Spike(GI) using 50x6 mm GI flat welded with 8 mm square bar(2 Nos. of spike per set in each pole)	Set	30	332.00	9960.00
11	Earthing of Support (Coil Type)	No	15	215.80	3237.00
12	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	3.93	97.50	383.18
13	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	21.75	101.40	2205.45
14	70 sq. mm AAAC XLPE covered conductor	Km	2.163	185220.00	400630.86
15	Yellow colour paint for Background	Ltr	30	216.00	6480.00
16	Black colour paint for numbering	Ltr	15	286.00	4290.00
A				A. Sub total	9,22,256.09
B				B. Stock, Storage & Insurance @ 3% of A	27,667.68
C				Sub Total (C=A+B)	9,49,923.77
D				T&P @ 2% of C	18,998.49
E				Contingency @ 3% of C	28,497.71
F				Transportation @ 7.5% of C	71,244.28
				Erection Charges @ 5% on WPB poles	22,913.12
G				Erection Charges @ 10%	49,166.21
H				Total	11,40,743.58
17	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	6.75	6500.00	43875.00
18	Concreting Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	1.6875	6500.00	10968.75
				Total Material + Services Cost (J+K)	11,95,587.33
PART-II	INSTALLATION OF 250 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
2	9 Mtr Long 300 KG PSC Pole(for raising of LT ABC)	No	1	3900.00	3,900.00
3	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	2	260.00	520.00
4	Eye Hook for XLPE Aerial Bunched Cable	No	2	78.00	156.00

5	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable	No	2	84.50	169.00
6	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	57.36	97.50	5592.60
7	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	97.50	386.57
8	Double Pole Belting Channel(GI) 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 3.0 Mtr., 2 no's Channel(GI) required =(7.14x3x2)	Kg	42.84	97.50	4176.90
9	50x50x6mm.GI Bracing Angle(GI), 4.5Kg./mtr., each Angle(GI) length 3.512 mtr., 2 nos Angle(GI) required = (4.5x3.512x2)	Kg	31.608	97.50	3081.78
10	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	42.84	97.50	4176.90
11	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	97.50	652.28
12	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	97.50	556.82
13	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	97.50	4176.90
14	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	97.50	1128.08
15	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	97.50	1125.15
16	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For L.A and 2.5 Mtr for raising, 11 Mtr. For AB Switch ,2.8 Mtr. for HG Fuse, 5x2 Mtr. For DTR neutral,(13-4.5)mtr. For DTR Body, 0.500 Mtr. For LTDB & AB switch operating handle, 3 Mtr. for fencing.)	Kg	154.82	97.50	15094.95
17	250 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II	No	1	601213.06	601213.06
18	LT Distribution Box with MCCB, Aluminium Busbar of 3 Bay with kit kat fuse for 250 KVA S/S	No	1	62400.00	62400.00
19	55 sq. mm All Alloy conductor-PVC insulated	Mtr	50	55.24	2762.00
20	1 Cx 400 mm ² LT XLPE Cable(Armoured) - FOR 250 KVA Trf.	Mtr	120	359.66	43159.20
21	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
22	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
23	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
24	11 KV Disc insulator polymer type 70 KN	No	3	1495.00	4485.00
25	11 KV H/W fitting polymer type	Pair	3	455.00	1365.00
26	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
27	11 KV Pin Insulator polymer type	No	3	260.00	780.00
28	HT Stay Set (Complete)	Set	2	1365.00	2730.00
29	HT Stay Insulator	No.	2	65.00	130.00
30	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	162.50	325.00
31	7/10 SWG Stay Wire	KG	30	97.50	2925.00
32	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
33	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
34	GI barbed wire/Anticlimbing device	No	6	104.00	624.00

35	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	97.50	234.70
36	Danger plate	Kg	2	104.00	208.00
37	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	97.50	58.68
38	Name Plate	No	1	104.00	104.00
	Structure Numbering and marking				
39	Yellow colour paint for Background	Ltr	2	216.00	432.00
40	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				8,75,627.56
B	B. Stock, Storage & Insurance @ 3% of A				26,268.83
C	Sub Total (C=A+B)				9,01,896.38
D	T&P @ 2% of C				16,826.14
E	Contingency @ 3% of C				27,056.89
F	Transportation @ 7.5% of C				67,642.23
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				34,017.56
H	Erection Charges @ 20% on PSC Poles				803.40
I	Erection Charges @ 10% for other materials				15,693.87
J	Total				10,63,936.48
41	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.450 Cu. Mtr.	Cum	0.9	6500.00	5850.00
42	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.226	6500.00	1469.00
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	2250.00	4,500.00
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	3700.00	25,900.00
45	LT DB Plinth	No	1	3000.00	3000.00
46	DTR Plinth	No	1	25000.00	25000.00
47	Laying of 1Cx400 sq. mm LT XLPE cable	Mtr	120	72.00	8,640.00
48	SITC and erection of GI fencing with gate	RM	20	3600.00	72,000.00
49	Concreting Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.(For PSC Pole)	Cum	0.375	6500.00	2437.50
					1,48,796.50
	Sub total Rs				12,12,732.98
III	Construction of LT Line using 4x50+1x50+1X16 sq. mm LT AB Cable- -0.79 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	24	3900.00	93,600.00
2	LT stay set complete	Set	9	676.00	6,084.00
3	7/12 SWG GI stay wire, Grade-2	Kg	108	97.50	10,530.00

4	LT stay clamp	Pair	9	143.00	1,287.00
5	LT stay set Insulator	No	9	39.00	351.00
6	LT Accessories with Eye Hook and Clamp				
7	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	39	260.00	10,140.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	18	78.00	1,404.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	18	84.50	1,521.00
10	Suspension clamp with Eye Hook for ABC (25-70 sqmm)	No	21	442.00	9,282.00
11	4 Cx50(P)+1Cx50(M)+1CX16 Street Light)sq. mm LT Aerial Bunched Cable	Mtr	829.5	226.00	1,87,467.00
12	4 way service Distribution Box with kitkat fuse and Aluminium Bus Bar	No	1	2873.00	2,873.00
13	Insulated Piercing connector ,Type-A main 50-150 sq. mm & Tap-50 to 150 sq. mm	No	16	113.08	1,809.28
14	GI Pipe for earthing (each 5th pole to earth)	EA	5	1365.00	6,825.00
15	Coil Earthing	No	19	215.80	4,100.20
16	No-8 GI wire (Dia-4.6mm)	Kg	6.288	97.50	613.08
17	Danger plate (LT)	No	24	104.00	2,496.00
18	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	7.22	97.5	703.95
19	GI barbed wire/Anticlimbing device 3 kg per support	Kg	72	104	7488.00
20	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	28.89	97.5	2816.78
21	GI Nut, Bolt & washers of different sizes	Kg	12	101.40	1,216.80
22	Yellow colour paint for Background	Ltr	48	216.00	10,368.00
23	Black paint	Ltr	24	286.00	6,864.00
A	TOTAL MATERIAL COST				3,69,840.09
B	Stock, Storage & Insurance @ 3% of A				11,095.20
C	Sub Total (C=A+B)				3,80,935.29
D	Contingency @3% of C				11,428.06
E	T & P 2% of C				7,352.78
F	Transportation @ 7.5% of C				28,570.15
G	Erection Charges for PSC Pole @ 20%				19,281.60
H	Erection Charges of Joist Poles @ 5%				
I	Erection Charges of other @ 10%				25,869.78
J	Sub Total Rs.				4,73,437.65
Civil and Services Works (As per Technical Specification)					
24	Fixing of LT 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 excavation supply of 0.5 cum cement concrete foundation 1:2:4 size(500x500x800mm)using 20 mm BHG metal with all Labour and material(Excavation of earth will be done of size500x500x1500mm)	No	9	2250.00	20250.00

25	Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cu.Mtr	9	6500.00	58,500.00
26	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	5	3700.00	18,500.00
K	Total Services Cost				97,250.00
	Total Material + Services Cost (J+K)				5,70,687.65
IV	Supply and Laying of 1.1 KV LT U/G Cable using 4 C x 35 Sq. mm of length 245 Mtr.				
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.	245		
1.1	4 core 35 sq. mm XLPE insulation armoured - Aluminium UG Cable	Mtr	490	213.38	1,04,556.20
2	supply of 1.1 KV Multimeter Panel				
a	No. of 1.1 KV I/C -160 A & 5 Nos. of O/G 32 A	No	1	95000.00	95,000.00
2.1	Supply of 1.1 KV I/C-160 A & 7 Nos. of O/G 32A	No	6	125000.00	7,50,000.00
3	Earthing of Multimeter Panel				
3.1	Earthing conductor 50x6mm (2.4 Kg/Mtr.)GI flat for equipment ,structure etc.)	Kg	92.4	97.50	9,009.00
3.2	40 mm Nominal bore GI pipe (medium gauge) earthing device with 3 Mtr. Long	Nos	14	1365.00	19,110.00
A	A. Sub total				9,77,675.20
	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	490	46.80	22,932.00
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	28	360	10,080.00
					33,012.00
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. Wx1.35 Mtr. D)	cum	211.68	700.00	1,48,176.00
2.2	Earth work excavation of Hard rock(1.6 Mtr. Wx1.35 Mtr. D)	Cum	90.72	1720.00	1,56,038.40
2.3	Back filling with excavated soil outside and above the trench	Cum	170.1	202.00	34,360.20
2.4	Supply and Erection of material for RCC partition Slab 650X50 mm(M-30 Grade)	Cum	4.55	7670.00	34,898.50
2.5	Supply and Erection of material for RCC trench (0.95 Mtr.D) 150 mm thick(M-30 Grade)CAST -IN -SITU	Cum	52.5	7670.00	4,02,675.00
2.6	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC trench(65.23 Kg/cum)	Kg	34.245	5309.90	1,81,837.53
2.7	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC slabs(67.8 Kg/cum)	Kg	3	5309.90	16,380.46
2.8	PCC (1:3:6)below trench (width 1100 mm, thickness 100 mm throughout)	Cum	14	5130.00	71,820.00
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	14	3,700.00	51,800.00
	Sub Total (Civil Portion) (in Rs.)				10,97,986.08
A	Sub Total (Supply Portion)				9,77,675.20
B	Stock, Storage & Insurance @ 3 % of A				29,330.26
C	Sub Total (A+B)				10,07,005.46
D	Contingency @ 3 % of C				30,210.16
E	Tools & Plants Charges @ 2% (considered for multimeter panel and earthing items)				17,592.59
F	Transportation @ 7.5% of C				75,525.41
G	Erection Charges @ 10% of earthing items				87,962.93
H	Total (C+D+E+F+G)				12,18,296.55
I	Sub Total (Erection Portion + Civil Portion)				11,30,998.08
J	Total Cost (H+I)				23,49,294.63
V	11 KV LINE PROTECTING GUARDING FOR ROAD CROSSING-4 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	125.664	97.50	12252.24
2	No-6 GI wire (0.192 Kg/Mtr.)for main string	Kg	46.08	97.50	4492.80
3	No-8 GI wire (0.131 Kg/mtr.)for lacing	Kg	9.825	97.50	957.94
4	Eye Bolt(236 mm,16 mm dia,1.577 Kg/mtr.)	No	8	78.00	624.00
5	GI Pipe earthing 40 mm dia 3 Mtr. Long	No	4	1365.00	5460.00
6	50x6mm GI Flat for earthing, 2.36kg/mtr.	Kg	101.008	97.50	9848.28
A	TOTAL MATERIAL COST (FOR-2020-21)				33,635.26
B	Stock, Storage & Insurance @ 3% of A				1,009.06

C	Sub Total (C=A+B)				34,644.32
D	Contingency @3% of C				1,039.33
E	T & P 2% of C				580.41
F	Transportation @ 7.5% of C				2,598.32
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				2,902.05
J	Sub Total Rs.				41,764.43
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	4	3700.00	14,800.00
	Total Rs.				56,564.43
				TOTAL RS.	56,89,358.28
				Cess @ 1%	56,893.58
				Total Estimated Cost	57,46,251.86
				Total Estimated Cost in Figures	57,46,252.00
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/-
D.M (Elect)

Sd/-
Project Manager (Elect.)