

PRICE BID FOR THE WORK UNDER SL. NO :- 11 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 12 NOS E TYPE QUARTERS AT DISTRICT HEADQUARTER AND 12 NOS E + 6 NOS F TYPE QUARTERS AT TOWN POLICE STATION, JAGATSINGHPUR IN THE DISTRICT OF JAGATSINGHPUR.

BID REF NO :- 04/PM/ELECT/OPHWC/2024-25

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	SUPPLY AND LAYING OF 0.15 KM 11 KV 3CX95 SQ. MM XLPE UG CABLE WITH ONE RUN SPARE IN RCC TRENCH.				
	Supply of materials for 11 Kv, 3 Core, 95 sq. mm ,XLPE insulation armoured UG cable with accessories.				
a	Length of 11kV 3C, 95sqmm cable (open trench)	Mtr.	150		
1.1	Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)	Mtr.	300.00	1,019.00	3,05,700.00
1.2	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)	Set	4	14,233.70	56,934.80
	Sub Total (Supply Portion) (in Rs.)				3,62,634.80
Erection Portion					
1	Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method				
1.1	Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.	Mtr.	300.00	94.50	28,350.00
1.2	Erection of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits for 3core (set)	Set	4	1,900.80	7,603.20
	Sub Total (Erection Portion) (in Rs.)				35,953.20
Civil Portion					
2	Civil works with supply of all materials like cement, MS ton rod, bricks, course & fine aggregates and labour, T&P, etc for LT Cable trench (cast-in -SITU method)				
2.1	Earth work excavation of soil Trench dimension(1.6 Mtr. Wx1.35 Mtr. D)	cum	202.608	700.00	1,41,825.60
2.2	Earth work excavation of Hard rock Trench dimension(1.6 Mtr. Wx1.35 Mtr. D)	Cum	86.832	1720.00	1,49,351.04
2.3	Back filling with excavated soil outside and above the trench	Cum	162.81	202.00	32,887.62
2.4	Supply and Erection of material for RCC partition Slab 650 mmx50 mm(M-30 Grade)	Cum	4.355	7670.00	33,402.85
2.5	Supply and Erection of material for RCC trench (0.95 Mtr. D),150 mm thick(M-30 Grade)-cast-in-SITU	Cum	50.25	7670.00	3,85,417.50

2.6	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC trench(65.23 Kg/cum)-Cast-in-SITU	Kg	32.778	5309.90	1,74,047.90
2.7	Supply and erection of Rod ,bending ,cutting and binding of prefabricated RCC slabs(67.8 Kg/cum)	Kg	3	5309.90	15,678.01
2.8	PCC(1:3:6) below trench (width 1100 mm ,thickness 100 mm throughout)	Cum	13.4	5130.00	68,742.00
3	Civil works for Prefabricated RCC foundation with supply of all materials				
3.1	Supply and Erection of GI pipe of Dia, 150 mm ,Class-B(8 Mtr.)	Mtr.	32	1,463.40	46,828.80
	Sub Total (Civil Portion) (in Rs.)				10,48,181.32
A	Sub Total (Supply Portion)				3,62,634.80
B	Stock, Storage & Insurance @ 3 % of A				10,879.04
C	Sub Total (A+B)				3,73,513.84
D	Contingency @ 3 % of C				11,205.42
E	Tools & Plants Charges @ 2% of C (considered for earthing items)				
F	Transportation @ 7.5% of C				28,013.54
G	Erection Charges @ 10% of earthing items				
H	Total (C+D+E+F+G)				4,12,732.80
I	Sub Total (Erection Portion + Civil Portion)				10,84,134.52
J	Total Cost (H+I)				14,96,867.32
I	INSTALLATION OF 1 NO. 11 KV DP WITH AB SWITCH FOR CABLE RISING.				
A	DP WITH AB SWITCH				
1	WPB (GI) Pole 160x152 (11Mtr. Long, 30.44KG/Mtr.)	No	2	29,661.00	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	45.888	97.50	4474.08
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	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
5	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
6	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)each channel length 0.8 Mtr.	Kg	5.712	97.50	556.92
7	Double pole belting Channel 75x40x4.8 mm ,7.14 Kg/mtr., each channel length 3.0 Mtr.,4 nos channel required.	Kg	85.68	97.50	8353.80
8	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 2.671 mtr., 4 nos angle required = (4.5x2.671x4)	Kg	63.216	97.50	6163.56
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., (2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 5x2.36	Kg	48.38	97.50	4717.05
17	GI barbed wire anti-climbing 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	3.00	4615	13,845.00
20	AB Switch (11KV,200A.3pole,50Hz)	Set	1.00	9555	9,555.00
21	11 KV pin insulator polymer	No.	6	260.00	1560.00
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	Wedge connector for 55 sq. mm AAA Conductor	No.	6	146.20	877.20
25	Poly carbonate Bird Guard	EA	18	29.40	529.20
26	GI Nut , Bolt & Washer of different sizes	Kg	13.718	101.40	1391.01
27	Black Paint	Ltr	1	286.00	286.00
28	Yellow Colour Paint for Background	Ltr	2	216.00	432.00
A	A. Sub total				1,38,943.94
B	B. Stock, Storage & Insurance @ 3% of A				4,168.32
C	Sub Total (C=A+B)				1,43,112.25
D	T&P @ 2% of C				2,680.15
E	Contingency @ 3% of C				4,293.37
F	Transportation @ 7.5% of C				10,733.42
	Erection Charges @ 5% on poles				3,055.08
G	Erection Charges @ 10%				7,290.56
H	Total				1,71,164.83
29	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
30	Concreting Ratio 1:1:5:3(500 mmx500mmx2200 mm)=0.55 Cu. Mtr.	Cum	0.9	6500.00	5850.00
31	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cum	0.225	6500.00	1462.50
32	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 Material + Services Cost (J+K)				1,90,377.33
PART-II	Installation of 250 KVA 11/0.4KV sub station - 1 No.				
1	11 Mtr Long (160x152)mm WPB GI Pole(30.44 Kg/mtr)-DP	No	2	29661.00	59322.00
2	9 Mtr. long 300 Kg. PSC Pole (For Raising of LT ABC)	No	1	3900.00	3900.00
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 bunched Cable	No	2	84.50	169.00
6	Top Pressure Channel 100x50x6mm channel each 3000 mm long,2 Nos(9.56 K.g/mtr)	K.g	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 75x40x4.8 mm (3000 mm long)(7.14Kg./Mtr., 2 No's.)	Kg	42.84	97.50	4176.90
9	50x50x6 mm GI Bracing Angle , 4.5 Kg/Mtr.,each angle Length 3.512 Mtr. ,2 Nos. angle required	Kg	31.608	97.50	3081.78

10	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	97.50	4176.90
11	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)for LT cable XLPE Rising	Kg	42.84	97.50	4176.90
12	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
13	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
14	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
15	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
16	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	97.50	1125.15
17	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	154.816	97.50	15094.56
18	250 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II	No	1	601213.06	601213.06
19	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
20	55mm2 All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Mtr	50	55.24	2762.00
21	1 Cx 400 mm2 LT XLPE Cable(Un-Armoured) - FOR 250 KVA Trf.	Mtr	120	359.66	43159.20
22	Cable LT 1.1 KV XLPE AL 4Cx150 sq. mm Amoured	Mtr	30	631.86	18955.80
23	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
24	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
25	Wedge connector for 55 sq. mm AAA Conductor	No.	3	146.20	438.60
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 Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
30	HT Stay Insulator	No.	2	65.00	130.00
31	7/10 SWG Stay Wire , 15 Kg/stay	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
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	8,89,604.47
B				B. Stock, Storage & Insurance @ 3% of A	26,688.13
C				Sub Total (C=A+B)	9,16,292.60
D				T&P @ 2% of C	16,723.58
E				Contingency @ 3% of C	27,488.78
F				Transportation @ 7.5% of C	68,721.95
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				15,181.09
J	Total				10,79,228.96
41	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
42	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 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	3,000.00
46	DTR Plinth	No	1	25000.00	25,000.00
47	Laying of 1 Cx400 sq. mm LT XLPE cable	Mtr	120	72.00	8,640.00
47	Laying of 1.1 KV Cable upto 185 sq. mm to 400 sq. mm	Mtr	30	73.65	2,209.50
48	Supply and Erection of GI fencing with Gate	Sq. Mtr.	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
					1,51,006.00
				Sub total Rs	12,30,234.96
III	Construction of LT Line using 4CX 70+1C X 70 +1C x16 sq. mm LT AB Cable- -0.23 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	8	3900.00	31,200.00
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	11	260.00	2,860.00
8	Eye Hook for XLPE Aerial Bunched Cable	No	8	78.00	624.00
9	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25-70 sqmm)	No	8	84.50	676.00
10	Suspension Clamp with EYE hook for ABC	No	3	442.00	1,326.00
11	4CX 70(P)+1C X 70(M) +1C x16(street light) LT AB Cable	Mtr	241.5	305.00	73,657.50
12	8 way service Distribution box with kit kat Fuse and Aluminium Bus Bar	No	5	5200.00	26,000.00
13	Insulated piercing connector.Type-A-main 50 to 150 sq.mm & Tap-50 to 150 sq.mm	No	20	113.08	2,261.60
14	GI Pipe for earthing (each 5th pole to earth)	No	2	1365.00	2,730.00
15	Coil Earthing	No	6	215.80	1,294.80
16	No-8 GI wire (Dia-4.6mm)	Kg	2.096	97.50	204.36
17	Danger plate (LT)	No	8	104.00	832.00
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	2.41	97.5	234.98
19	GI barbed wire/Anticlimbing device 3 kg per support	Kg	24	104	2496.00

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	9.63	97.5	938.93
21	GI Nut, Bolt & washers of different sizes	Kg	4	101.40	405.60
22	Yellow colour paint for Background	Ltr	16	216.00	3,456.00
23	Black paint	Ltr	8	286.00	2,288.00
A	TOTAL MATERIAL COST				1,71,737.76
B	Stock, Storage & Insurance @ 3% of A				5,152.13
C	Sub Total (C=A+B)				1,76,889.89
D	Contingency @3% of C				5,306.70
E	T & P 2% of C				3,105.56
F	Transportation @ 7.5% of C				13,266.74
G	Erection Charges for PSC Pole @ 20%				6,427.20
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				12,314.20
J	Sub Total Rs.				2,17,310.29
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	20250
25	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	3	6500.00	19,500.00
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	2	3700.00	7,400.00
K	Total Services Cost				47,150.00
					Sub total Rs
					2,64,460.29
	Total Rs.				31,81,939.90
	Cess @1%				31,819.40
	Total Estimated Cost				32,13,759.30
	Total Estimated Cost in Figures				32,13,759.00
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/-
DM (Elect) I/C

Sd/-
Project Manager(Elect.)