

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 :- UP-GRADATION OF SUB-STATION FROM 100 KVA TO 250 KVA FOR POWER SUPPLY TO ACADEMIC BLOCK OF SHRI JAGANNATH SANSKRIT UNIVERSITY, PURI.

BID REF NO :- 75/PM/ELECT/OPHWC/2022-23

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.
1	11 KV CUT POINT WITH 180 DEGREE ANGLE				
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	26516.95	26516.95
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	22.944	88.50	2030.54
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.2864	88.50	467.85
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	5.85072	88.50	517.79
5	Danger Plate	No	1	94.40	94.40
6	Back clamp for Danger Plate 25x3 mm , flat of 0.59 Kg/Mtr. Flat of 0.51 Mtr Length 1 Nos.	Kg	0.3009	88.50	26.63
7	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	3	94.40	283.20
8	Back Clamp for anticlimbing device 25X3 mm. flat, 0.59Kg/Mtr. Flat of 0.510mtr length 8 no's = (8x0.59x0.510)	Kg	1.2036	88.50	106.52
9	11 KV pin insulator polymer	Set	3	236.00	708.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	6	413.00	2478.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1357.00	8142.00
12	Earthing of Support (Coil Type)	EA	1	195.88	195.88
13	No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	Kg	0.262	88.50	23.19
14	PG Clamp for 80 sq.mm AAA conductor	No.	6	625.40	3752.40
15	GI Nut , Bolt & Washer of different sizes (7.433 Kg each) Cut Pole	Kg	3.55	92.04	326.74
16	Black Paint	K.g.	0.5	259.60	129.80
17	Yellow Colour Paint for Background	Ltr	2	259.60	519.20
A				A. Sub total	46,319.09
B				B. Stock, Storage & Insurance @ 3% of A	1,389.57
C				Sub Total (C=A+B)	47,708.66
D				T&P @ 2% of C	954.17

E	Contingency @ 3% of C				1,431.26
F	Transportation @ 7.5% of C				3,578.15
	Erection Charges @ 5% on poles				1,365.62
G	Erection Charges @ 10%				2,039.62
H	Total				57,077.48
18	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cu. Mtr	0.45	6500.00	2,925.00
19	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.1125	6500	731.25
	Total Material + Services Cost (J+K)				60,733.73
II	RENOVATION AND UP-GRADATION OF EXISTING 100 KVA S/S TO 250 KVA S/S.				
Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
1	WPB 160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	26516.95	53,033.90
2	Top channel GI 100x50x6 mm (9.56 kg/Mtr.,4 Nos.)Each channel length 1.2 Mtr.,4 Nos. channel required(4x9.56x3)	Kg	57.36	88.50	5,076.36
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	3.9648	88.50	350.88
4	Double Pole Belting Channel 75X40X 4.8mm., 7.14KG/Mtr., each channel length 3.0 Mtr., 2 no's channel required =(6x7.14x4.3)	Kg	42.84	88.50	3,791.34
5	50x50x6mm.GI Bracing Angle, 4.5Kg./mtr., each angle length 4.927 mtr., 6 nos angle required = (6*4.5*4.927)	Kg	31.608	88.50	2,797.31
6	MU channel GI 75x40x4.8 mm(3000 MM Long)(7.14 Kg/Mtr.,2 Nos.)	Kg	42.84	88.50	3,791.34
7	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	88.50	3,791.34
8	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	88.50	592.07
9	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)	Kg	5.71	88.50	505.34
10	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	88.50	3,791.34
11	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	88.50	1,023.95
12	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	88.50	1,021.29
13	Back clamp for danger plate25x3 mm ,flat 0.59 Kg/Mtr,flat of 0.510 Mtr. Length 2 Nos	Kg	0.601	88.50	53.19
14	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	154.82	88.50	13,701.57
15	250 KVA , 11/0.4 KV (CU) Transformer with Tap Changer BIS Energy Level-II	No	1	401000.00	4,01,000.00

16	LT Distribution Box with MCCB, Aluminium Busbar for 3 Bay with kit kat Fuse for 250 KVA S/S.	No	1	56640.00	56,640.00
17	55 sq. mm All Alloy conductor-PVC insulated	Km	0.05	56000.00	2,800.00
18	1Cx400 sq. mm LT XLPE cable(Un Armoured)	Mtr	120	359.66	43,159.20
19	4Cx35 sq. mm LT XLPE cable	Mtr	0	213.38	-
20	11 KV AB switch (400 Amp, 3 pole)	Set	1	13983.00	13,983.00
21	11 KV HG Fuse (400 Amp, 3 pole)	Set	1	13605.00	13,605.00
22	PG Clamp for 55 sq. mm AAAC	No	6	566.40	3,398.40
23	H W fitting(B&S) 70KN, 3Bolt	No.	3	413.00	1239.00
24	Disc insulator (B&S) 70 KN polymer	No.	3	1357.00	4071.00
25	11 KV LA (11KV,10 KA)(station class, class-2)	No	3	4189.00	12,567.00
26	11 KV Pin insulator Polymer	No	3	236.00	708.00
27	HT Stay Set (Complete)	Set	2	1239.00	2,478.00
28	HT Stay Insulator	No.	2	59.00	118.00
29	HT Stay Clamp(1.95 K.g/Pair)	Pair	2	147.50	295.00
30	7/10 SWG Stay Wire	KG	30	88.50	2,655.00
31	GI Pipe for earthing 40mm dia 3mtr long	No	7	1239.00	8,673.00
32	GI Nut, Bolt & washers of different sizes	Kg	25	92.04	2,301.00
33	GI barbed wire/Anticlimbing device	No	6	94.40	566.40
34	Danger plate	Kg	2	94.40	188.80
35	Name Plate	No	1	94.40	94.40
36	Structure Numbering and marking				-
37	Yellow colour paint for Background	Ltr	2	259.60	519.20
38	Black colour paint for numbering	Ltr	1	259.60	259.60
A	A. Sub total				6,64,640.21
B	B. Stock, Storage & Insurance @ 3% of A				19,939.21
C	Sub Total (C=A+B)				6,84,579.41
D	T&P @ 2% of C				13,691.59
E	Contingency @ 3% of C				20,537.38
F	Transportation @ 7.5% of C				51,343.46
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				23,382.75
H	Erection Charges @ 10% for other materials				21,121.17
I	Total				8,14,655.76
39	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5,850.00
40	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1,469.00
41	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
42	Installation of Earthpit ,charcoal,salt, etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No	7	2407.00	16,849.00
43	LT DB Plinth	No	1	3000.00	3,000.00
44	DTR Plinth	No	1	25000.00	25,000.00
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
					1,28,668.00
	Sub total Rs				9,43,323.76

III	Construction of LT 4 core x 50 Sq. mm LT XLPE cable for the power supply to the 10 Nos. 3 Phase Consumer.				
	Length of 1.1 KV, 4C, 50 sq. mm cable(Open trench)	Km	0.6		
1	Supply of 4 core 50 sq. mm LT XLPE Cable(Armoured) for providing the power supply to the 10 Nos. 3 Phase Consumers.	Km	0.6	239540.00	1,43,724.00
2	LT multimeter Panel for 10 Nos. Energy meter with accessories.	No	1	60000.00	60,000.00
3	Supply of 4 inch PVC pipe heavy duty(schedule-80) for service cable Laying)	Km	0.6	265071.00	1,59,042.60
4	63A LT Feeder Pillar Box	No	4	301461.00	12,05,844.00
5	GI Pipe for earthing 40mm dia 3mtr long	No	8	1239.00	9,912.00
6	50x6mm GI Flat for earthing, 2.36kg/mtr.	Kg	49	88.50	4,336.50
7	Supply of UG cable service mains inside pvc pipes from the LT feeder pillar boxes to individual consumer				
8	Supply of clamps 8 Nos. for one No. service mains	No	96	63.90	6,134.40
9	Supply terminal connectors at meter end(4 Nos. per 1 Phase and 8 Nos./service main)	No	48	163.00	7,824.00
A	A. Sub total				15,96,817.50
	Laying , Commissioning ,Testing of 1.1 KV 4 core 50 sq. mm aluminium, XLPE insulation armoured(extruded type) UG cable by open trench method & HDD method				
1	Laying , Commissioning ,Testing of 11 KV 4 core 50 sq. mm aluminium XLPE cable insulation armoured(extruded type) UG cable by open trench method	Mtr	600	46.8	28,080.00
2	Erection of terminal connectors	No	48	56	2,688.00
3	Erection of 630 Amp Feeder Pillar	No	2	45000	90,000.00
4	Laying of 4 inch PVC pipe heavy duty (schedule-80) for service cable laying.	Mtr	600	16.97	10,182.00
5	BA will provide necessary Tools,Machinery,Manpower for Laying of 1.1 KV 4C/1C/2C XLPE cable(16 sq. mm to 63 sq. mm)in Trench/HDPE Pipe/Hum Pipe	Km	0.6	54000	32,400.00
6	Erection of clamps 8 Nos for one no. service mains	No	96	19.8	1,900.80
					1,65,250.80

	Civil works with supply of all materials like cement, MS ton rod, bricks, course & fine aggregates and labour, T&P, etc for UG Cable trench				
1	Earth work excavation of soil(0.8 Mtr. Width x 0.6 mtr. Depth)				
2	Earth work excavation of soil	cum	201.6	700.00	1,41,120.00
3	Earth work excavation of hard rock	Cum	86.4	1720.00	1,48,608.00
4	Shifting of excavation soil to a lead distance of 10Km	Cum	172.8	171.55	29,643.84
5	Filling with fine river sand after laying of cable inside the trench	Cum	192	2500.00	4,80,000.00
6	Back filling with excavation soil outside and above the trench	Cum	96	202.00	19,392.00
7	Supply and erection of GI Pipe dia, 150 mm ,class-B(8 Mtr.)	Mtr.	16	1463.40	23,414.40
8	Supply and Erection of cable Route Marker along the cable route at an intervals of 30 Mtrs. With civil works	Nos	20	1012.00	20,240.00
9	Prefabricated RCC foundation for LT feeder pillar Box including supply of all materials	Nos	2	14312.70	28,625.40
10	civil work Fencing around each feeder pillar box	Sq. Mtr.	30	3600.00	1,08,000.00
				SubTotal	9,99,043.64
A				A. Sub total	15,96,817.50
B				B. Stock, Storage & Insurance @ 3% of A	47,904.53
C				Sub Total (C=A+B)	16,44,722.03
D				T&P @ 2% of C	
E				Contingency @ 3% of C	49,341.66
F				Transportation @ 7.5% of C	1,23,354.15
G				Total	18,17,417.84
H				Sub Total(Erection+civil)	11,64,294.44
I				Total Material + Services Cost (J+K)	29,81,712.28
IV	Construction of LT 4 core x 150 Sq. mm 1.1 KV LT UG cable for Route Length-0.42 Km				
	Length of 1.1 KV, 4C, 150 sq. mm cable(Open trench)	Km	0.6		
1	4 core 150 sq. mm LT XLPE cable(Armoured)	Km	0.84	732120.00	6,14,980.80
2	Supply of Indoor termination kits Heat Shrinkable type suitable for 1.1 KV, 4 core, 150 Sq. mm	Set	12	2350.70	28,208.40
3	Supply of HDPE PE 80-PN8 pipe of 110mm diameter(for 150 sq. mm HT cable Laying)	Km	0.84	520436.00	4,37,166.24
A				A. Sub total	10,80,355.44
	Laying , Commissioning ,Testing of 1.1 KV 4 core 150 sq. mm aluminium, XLPE insulation armoured(extruded type) UG cable by open trench method				

1	Laying , Commissioning ,Testing of 1.1 KV 4 core 150 sq. mm aluminium XLPE cable insulation armoured(extruded type) UG cable by open trench method	Mtr	840	72.00	60,480.00
2	Erection of Indoor termination kits Heat shrinkable type suitable for 11 KV 4 core 150 sq. mm aluminium UG cable kit for 3 core	Set	12	1900.80	22,809.60
3	Laying of 110 mm dia PE 80-PN8, HDPE pipe inside open trench	Km	0.84	104114.67	87,456.32
					1,70,745.92
	Civil works with supply of all materials like cement, MS ton rod, bricks, course & fine aggregates and labour, T&P, etc for UG Cable trench				
1	Earth work excavation of soil(0.8 Mtr. Width x 0.6 mtr. Depth)				
2	Earth work excavation of soil	cum	141.12	700.00	98,784.00
3	Earth work excavation of hard rock	Cum	60.48	1720.00	1,04,025.60
4	Shifting of excavation soil to a lead distance of 10Km	Cum	120.96	171.55	20,750.69
5	Filling with fine river sand after laying of cable inside the trench	Cum	134.4	2500.00	3,36,000.00
6	Back filling with excavation soil outside and above the trench	Cum	67.2	202.00	13,574.40
7	Supply and erection of GI Pipe dia, 150 mm ,class-B(8 Mtr.)	Mtr.	32	1463.40	46,828.80
8	Supply and Erection of cable Route Marker along the cable route at an intervals of 30 Mtrs. With civil works	Nos	11	1012.00	11,132.00
				SubTotal	6,31,095.49
A				A. Sub total	10,80,355.44
B				B. Stock, Storage & Insurance @ 3% of A	32,410.66
C				Sub Total (C=A+B)	11,12,766.10
D				T&P @ 2% of C	
E				Contingency @ 3% of C	33,382.98
F				Transportation @ 7.5% of C	83,457.46
G				Total	12,29,606.54
H				Sub Total(Erection+civil)	8,01,841.41
I				Total Material + Services Cost (J+K)	20,31,447.95
V	LABOUR CHARGES FOR DISMANTALLING)				
1	Dismantalling of 8 mtr. Long 200 KG PSC Pole	No	9	900.00	8,100.00
2	Dismantalling of 55 sq mm AAAC	Mtr	450	8.10	3,645.00
3	Dismantalling of RSJ/WPB Pole(150x150)mm	No	2	1350.00	2,700.00
4	Dismantalling of 11 KV Disc Insulator with Hardware	No	3	8.10	24.30

5	Dismantalling of MS channel	Kg	595	7.92	4,712.40
6	Dismantalling of OD LTDB for Transformer including removal of HT/LT leads,earth connection	EA	1	1800.00	1,800.00
	Total Rs.				20,981.70
	Sub Total Rs.				60,38,199.42
	Cess @1%				60,381.99
	Total Estimated Cost				60,98,581.42
	Total Estimated Cost in Figures				60,98,581.00
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/-
Asst. Project Manager (Elect) (Hqr)**

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