

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
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[Electrical Division]
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PRICE BID FOR THE WORK UNDER SL. NO :-13 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 100 MEN BARRACK FOR MV STAFF WITH PARKING AT OSAP 6TH BN., CUTTACK.

BID REF NO :-30/PM/ELECT/OPHWC/2024-25

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.
I	INSTALLATION OF 25 KVA S/S.				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	29661.00	59322.00
2	Top Channel GI 100X50X6mm,3000 mm Long) 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	57.36	76.00	4,359.36
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required	Kg	3.54	97.50	345.15
4	AB switch mounting channel 75x40x4.8 mm GI channel (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3,255.84
5	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.69	76.00	508.44
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	76.00	434.04
7	HG/DO fuse Mounting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,2 Nos.)	Kg	42.84	76.00	3255.84
8	Cantilever suport channel75x40x4.8 mm GI channel(810 mm Long,2 Nos.)(7.14 kg/mtr,2 Nos.)	Kg	11.57	76.00	879.32
9	Cantilever suport angle 50x50x6 mm GI (1282 mm Long)(4.5 kg/mtr,2 Nos.)	Kg	11.54	76.00	877.04
10	Transformer Base GI Channel 100 X 50 X 6 MM (3000 mm long) (9.56Kg./Mtr, 2 No's.) (Each 2x3.000x9.56= 57.36 Kg)	Kg	57.36	76.00	4359.36
11	Transformer Base Support GI Channel 100 X 50 X 6 MM (515 mm long) (9.56Kg./Mtr, 2 No's) (Each 2x0.515x9.56= 9.85Kg)	Kg	9.85	76.00	748.60
12	Transformer Belting Angle 50 X 50 X 6MM GI (3000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x3.0x4.5 Kg)	Kg	27	76.00	2052.00
13	Transformer Belting Support Angle 50 X 50 X 6MM GI (580 mm long)(4.5Kg./Mtr,2 No's) (Each 2x0.580x4.5= Kg)	Kg	5.22	76.00	396.72
14	LTDB Mounting Angle 50 X 50 X 6MM GI (1000 mm long)(4.5Kg./Mtr, 2 No's) (Each 2x1x4.5 Kg)	Kg	9	76.00	684.00

15	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
16	25 KVA , 11/0.4 KV (AL) Transformer BIS Energy Level-II	No	1	69940.00	69940.00
17	LT Distribution Box with MCCB, Aluminium Busbar of single Bay with kit kat fuse for 25 KVA S/S	No	1	19409.00	19409.00
18	55mm ² All Alloy Aluminum Conductor (AAAC) - PVC Insulated (50 Mtr. Each Dtr.)	Mtr	50	55.24	2762.00
19	4 Cx35 mm ² LT XLPE Cable(Armoured) - FOR 25 KVA Trf.	Mtr	15	213.38	3200.70
20	11 KV AB switch (200 Amp, 3 pole)	Set	1	9555.00	9555.00
21	11 KV HG Fuse (200 Amp, 3 pole)	Set	1	7956.00	7956.00
22	PG Clamp for 55 sq. mm AAAC	No	6	624.00	3744.00
23	Disc insulator (B&S)70 KN polymer	No	3	1495.00	4485.00
24	H W fitting (B&S)70KN(3bolted)	Pair	3	455.00	1365.00
25	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00
26	11 KV Pin Insulator polymer type	No	3	260.00	780.00
27	HT Stay Set (Complete)	Set	2	1365.00	2730.00
28	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	2	162.50	325.00
29	HT Stay Insulator	No.	2	65.00	130.00
30	7/10 SWG Stay Wire , 15 Kg/stay	KG	30	97.50	2925.00
31	GI Pipe for earthing 40mm dia 3mtr long	No	7	1365.00	9555.00
32	GI Nut, Bolt & washers of different sizes	Kg	25	101.40	2535.00
33	GI barbed wire/Anticlimbing device	No	6	104.00	624.00
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	97.50	234.70
35	Danger plate	Kg	2	104.00	208.00
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	97.50	58.68
37	Name Plate	No	1	104.00	104.00
38	Yellow colour paint for Background	Ltr	2	216.00	432.00
39	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				2,53,761.34
B	B. Stock, Storage & Insurance @ 3% of A				7,612.84
C	Sub Total (C=A+B)				2,61,374.18
D	T&P @ 2% of C				4,838.34
E	Contingency @ 3% of C				7,841.23
F	Transportation @ 7.5% of C				19,603.06
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				6656.99
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				10,880.22
J	Total				3,11,194.02

40	Concrete Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	0.9	6500.00	5850.00
41	Couping Ratio 1:1:5:3(500 mmx500mmx450 mm)=0.113 Cu. Mtr.	Cum	0.226	6500.00	1469.00
42	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
43	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
44	Laying of 4Cx95 sq. mm LT XLPE cable	Mtr	15	46.80	702.00
45	Supply and Erection of GI fencing with Gate	Sq. Mtr.	15	3600.00	54,000.00
					92,421.00
				Sub total Rs	4,03,615.02
II	CONSTRUCTION OF 11 KV LINE OF LENGTH 0.1 KM .				
A	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	45.888	76.00	3487.49
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	76.00	889.31
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	4	260.00	1040.00
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	Earthing of Support (Coil Type)	No	1	215.80	215.80
13	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
14	PG Clamp for 55 sq. mm AAAC	No	9	624.00	5616.00
15	HT Stay Set (Complete)	Set	1	1365.00	1365.00
16	HT Stay Clamp,50x8 mm , flat 3.14 kg/Mtr.,0.551 Length , 2Nos.	Pair	1	162.50	162.50

17	HT Stay Insulator	No.	1	65.00	65.00
18	7/10 SWG Stay Wire , 15 Kg/stay	KG	15	97.50	1462.50
19	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	7.433	101.40	753.71
20	Yellow colour paint for Background	Ltr	2	216.00	432.00
21	Black colour paint for numbering	Ltr	0.5	286.00	143.00
A	A. Sub total				64,462.39
B	B. Stock, Storage & Insurance @ 3% of A				1,933.87
C	Sub Total (C=A+B)				66,396.26
D	T&P @ 2% of C				1,264.99
E	Contingency @ 3% of C				1,991.89
F	Transportation @ 7.5% of C				4,979.72
G		Erection Charges @ 20 % on PSC poles			
H		Erection Charges @ 5 % on Joist/WPB poles			1,527.54
I		Erection Charges @ 10%			3,269.88
J		Total			79,430.27
22	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	1	2250.00	2250.00
23	Concreting Ratio 1:1:5:3(500 mmx500mmx1800mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
24	Couping 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)				85,336.52
B	11 KV PIN POINTS WITH WPB				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	29661.00	29661.00
2	11 KV V Cross Arm (10.2 Kg each)	No	1	1053.00	1053.00
3	Top Bracket 100x50x6 mm GI channel(2 Kg each)	No	1	195.00	195.00
4	Danger plate	No	1	104.00	104.00
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	0.3	97.50	29.25
6	GI barbed wire/Anticlimbing device	No	3	104.00	312.00
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	1.2	97.50	117.00
8	11 KV Pin Insulator Polymer,3 Nos.,required for each support	No	3	260.00	780.00
9	Earthing of Support (Coil Type)	No	1	215.80	215.80

10	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
11	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	1.45	101.40	147.03
12	55 SQ. MM AAAC	Km	0.309	39000.00	12051.00
13	Yellow colour paint for Background	Ltr	2	216.00	432.00
14	Black colour paint for numbering	Ltr	1	286.00	286.00
A	A. Sub total				45,408.43
B	B. Stock, Storage & Insurance @ 3% of A				1,362.25
C	Sub Total (C=A+B)				46,770.68
D	T&P @ 2% of C				935.43
E	Contingency @ 3% of C				1,403.12
F	Transportation @ 7.5% of C				3,507.80
	Erection Charges @ 5% on poles				1,527.54
G	Erection Charges @ 10%				1,622.05
H	Total				55,766.62
15	Concreting Ratio 1:1:5:3(500 mmx500mmx1800mm)=0.45 Cu. Mtr.	Cum	0.45	6500.00	2925.00
16	Couping Ratio 1:1:5:3(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cum	0.1125	6500.00	731.25
	Total Material + Services Cost (J+K)				59,422.87
III	LT LINE-0.04 Km.				
1	9 Mtr Long 300 KG PSC Pole	No	1	3900.00	3,900.00
2	LT stay set complete	Set	1	676.00	676.00
3	7/12 SWG GI stay wire, Grade-2	Kg	12	97.50	1,170.00
4	LT stay clamp	Pair	1	143.00	143.00
5	LT stay set Insulator	No	1	39.00	39.00
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	2	260.00	520.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	2	78.00	156.00
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25-70 sqmm)	No	2	84.50	169.00
9	4X25 sq. mm Armoured Aluminium cable -XLPE insulated	Mtr	42	159.61	6,703.62
10	4 way Distribution Box with kit kat fuse and Aluminium Bus bar	No	1	2873.00	2,873.00
11	Insulated Piercing connector Type-B -main 25 to 150 sq. mm & Tap 6 to 35 sq. mm	No	1	62.13	62.13
12	Coil Earthing	No	1	215.80	215.80
13	No-8 GI wire (Dia-4.6mm)	Kg	0.262	97.50	25.55
14	Danger plate (LT)	No	1	104.00	104.00
15	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	97.5	29.25
16	GI barbed wire/Anticlimbing device 3 kg per support	Kg	3	104	312.00

17	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	97.5	117.00
18	GI Nut, Bolt & washers of different sizes	Kg	0.5	101.40	50.70
19	Yellow colour paint for Background	Ltr	2	216.00	432.00
20	Black paint	Ltr	1	286.00	286.00
A	TOTAL MATERIAL COST				17,984.05
B	Stock, Storage & Insurance @ 3% of A				539.52
C	Sub Total (C=A+B)				18,523.57
D	Contingency @3% of C				555.71
E	T & P 2% of C				328.70
F	Transportation @ 7.5% of C				1,389.27
G	Erection Charges for PSC Pole @ 20%				803.40
H	Erection Charges of DTR and Joist Poles @ 5%				
I	Erection Charges of other @ 10%				1,241.82
J	Sub Total Rs.				22,842.46

Civil and Services Works (As per Technical Specification)

21	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	1	2250	2250
22	Concreting Ratio 1:1::5:3 (500mmX500mmX1500mm)= 0.375Cu.Mtr	Cu.Mtr	0.375	6500.00	2,437.50

K	Total Services Cost				4,687.50
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Total Material + Services Cost (J+K)				27,529.96
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Total Rs.				5,75,904.38
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Cess @ 1%				5,759.04
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Total Estimated Cost				5,81,663.43
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Total Estimated Cost in Figures				5,81,663.00
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Quoted Amount in Figure				
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Quoted Amount in word	
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N:B- The Estimated cost is exclusive of GST.

Signature of Tenderer with seal

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

**Sd/-
D.M I/C (Elect)**

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