

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.**JANAPATH, BHOINAGAR, BHUBANESWAR - 22****[Electrical Division]****Ph: 0674-2541545, 2542921, Fax: 0674-2541543****E-mail :- pmelectricalophwc2025@gmail.com, Website: www.ophwc.com****PRICE BID FOR THE WORK UNDER SL. NO :- 01 AS PER IFB****NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK, AREA ILLUMINATION WORK, INSTALLATION OF LIGHTNING PROTECTION SYSTEM & SOLAR P.V SYSTEM AT COB AT LANGALKETA, ROURKELA IN THE DISTRICT OF SUNDERGARH.****BID REF NO :- 70/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.
PART-A	EXTERNAL ELECTRIFICATION WORK				
I	CONSTRUCTION OF 11 KV LINE.				
A	11 KV SP CUT POINT				
1	11 Mtr. Long 150x150 mm RS Joist Pole(34.6 Kg/Mtr.)	No	2	35,129.38	70,258.76
2	75x40x6 mm Channel for Straight cross arm	Kg	65.28	92.30	6,025.34
3	11 KV Disc insulator B&S polymer type 70 KN	No	12	1,633.00	19,596.00
4	11 KV H/W fitting polymer type	Pair	12	497.00	5,964.00
5	11 KV Pin Insulator Polymer	No	6	284.00	1,704.00
6	HT Stay Set (Complete)	Set	8	1,491.00	11,928.00
7	HT Stay Insulator	No.	8	71.00	568.00
8	HT Stay Clamp	Pair	8	177.50	1,420.00
9	7/10 SWG Stay Wire ,7/3.25 mm	Kg	80	106.50	8,520.00
10	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	10	110.76	1,107.60
11	Earthing support coil type	No	2	235.72	471.44
A	A. Sub total				127,563.14
B	B. Stock, Storage & Insurance @ 3% of A				3,826.89
C	Sub Total (C=A+B)				131,390.04
D	T&P @ 2% of C				2,627.80
E	Contingency @ 3% of C				3,941.70
F	Transportation @ 7.5% of C				9,854.25
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				3,618.33
H	Erection Charges @ 20% on PSC Poles				

I	Erection Charges @ 10% for other materials				5,902.35
J	Total				157,334.47
12	Concrete materials for stay anchor plate	M3	8	1,653.00	13,224.00
13	Padding and concreting material for Support	M3	2	2,837.90	5,675.80
	Total Rs.				176,234.27
B	11 KV LINE USING 55 SQ. MM INSULATED AAAC				
1	11 Mtr. Long 150x150 mm RS Joist Pole(34.6 Kg/Mtr.)	No	14	35,129.38	491,811.32
2	55 sq. mm insulated covered AAAC	Mtr.	2163	152.00	328,776.00
3	MS Channel 100x50x6 mm	Kg	45.696	92.30	4,217.74
4	11 KV 'V' cross arm(10.2 Kg each)	No.	13	1,150.20	14,952.60
5	GI Back clamp for 11 KV V Cross Arm	No.	13	113.60	1,476.80
6	Top F clamp for PSC Pole ,2.9 Kg	No.	13	340.80	4,430.40
7	11 KV Disc insulator B&S polymer type 70 KN	No	11	1,633.00	17,963.00
8	11 KV H/W fitting polymer type	Pair	11	497.00	5,467.00
9	11 KV Pin Insulator Polymer	No	42	284.00	11,928.00
10	HT Stay Set (Complete)	Set	8	1,491.00	11,928.00
11	HT Stay Insulator	No.	8	71.00	568.00
12	HT Stay Clamp	Pair	8	177.50	1,420.00
13	7/10 SWG Stay Wire ,7/3.25 mm	KG	59.094	106.50	6,293.51
14	Earthing support coil type	No	13	235.72	3,064.36
15	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	30.1	110.76	3,333.88
16	GI barbed wire/Anticlimbing device	No	28	113.60	3,180.80
17	Danger plate	No	14	113.60	1,590.40
A	A. Sub total				912,401.81
B	B. Stock, Storage & Insurance @ 3% of A				27,372.05
C	Sub Total (C=A+B)				939,773.86
D	T&P @ 2% of C				18,795.48
E	Contingency @ 3% of C				28,193.22
F	Transportation @ 7.5% of C				70,483.04
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				25,328.28
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				43,320.82
J	Total				1,125,894.69
18	Fabrication and Galvanisation	Kg	45.696	13.00	594.05

19	Concrete material for stay anchor plate	M3	8.4	1,653.00	13,885.20
20	Padding and Concreting materials for support	M3	14	2,837.90	39,730.60
	Total Rs.				1,180,104.54
II	LT Line				
1	9 Mtr. Long RS Joist Pole(30.6 Kg/Mtr.)	No	17	25,419.42	432,130.14
2	1.1 KV 3C×50+1C×35+1X16 mm² (LT AB Cable)	Mtr.	510	198.80	101,388.00
3	4 core Al. pvc armoured cable 25 sq. mm	Mtr	15	177.50	2,662.50
4	Pole Clamp	No	17	284.00	4,828.00
5	Dead End Clamp suitable for messenger XLPE Aerial bunched Cable	No	5	92.30	461.50
6	Suspension Clamp with EYE hook for ABC	No	9	482.80	4,345.20
7	Neutral Connector	No	10	46.86	468.60
8	7/12 SWG GI stay wire, Grade -2	Kg	18	106.50	1,917.00
9	LT stay Clamp (1.40Kg/pair)	Pair	3	156.20	468.60
10	LT Stay insulator	No	3	42.60	127.80
11	Coil Earthing	No	17	235.72	4,007.24
12	No-8 GI wire for earthing	Kg	4.454	113.60	505.97
13	Bolt & Nut GI 16x55 mm	Kg	10	110.76	1,107.60
14	Piercing Connector LT Type A	No	10	113.60	1,136.00
15	LT Stay set Complete	Set	3	738.40	2,215.20
16	8 way Service Distribution Box	No.	1	5,680.00	5,680.00
A	A. Sub total				563,449.35
B	B. Stock, Storage & Insurance @ 3% of A				16,903.48
C	Sub Total (C=A+B)				580,352.84
D	T&P @ 2% of C				11,607.06
E	Contingency @ 3% of C				17,410.59
F	Transportation @ 7.5% of C				43,526.46
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				22,254.70
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				13,325.88
J	Total				688,477.52
16	Concrete materials for stay anchor plate	No	3	1,653.00	4,959.00
17	Padding and concreting material for Support	No	17	2,837.90	48,244.30

	Total Rs.				741,680.82
III	INSTALLATION OF 63 KVA S/S.				
1	11 Mtr. Long 150x150 mm RS Joist Pole(34.6 Kg/Mtr.)	No.	2	35,129.38	70,258.76
2	63 KVA , 11/0.4 KV Transformer BIS Energy Level-II	No	1	152,486.79	152,486.79
3	MS Channel 100x50x6 mm	Kg	103	92.30	9,506.90
4	MS channel 75x40x6 mm	Kg	184	92.30	16,983.20
5	MS angle 50x50x6 mm	Kg	57	92.30	5,261.10
6	11 KV Disc insulator polymer type 70 KN(B&S)	No	3	1,633.00	4,899.00
7	11 KV H/W fitting polymer type	Pair	3	497.00	1,491.00
8	PG Clamp for 100 sq. mm AAAC	No.	3	823.60	2,470.80
9	GI Flat 25x6 mm	Kg	11	106.50	1,171.50
10	GI Flat 50x6 mm	Kg	43	106.50	4,579.50
11	11 KV AB Switch (400 Amp, 3 pole, HZ type)	Set	1	16,827.00	16,827.00
12	11 KV DD Fuse 3 Pole	No	1	6,678.78	6,678.78
13	DD Fuse Link Unit(10A)	No	3	157.62	472.86
14	11 KV Lightning Arrester	EA	3	1,391.60	4,174.80
15	Conductor ACSR PVC (61.7)sq. mm	Mtr.	20	84.24	1,684.80
16	HT Stay Set (Complete)	Set	2	1,491.00	2,982.00
17	HT Stay Insulator	No.	2	71.00	142.00
18	HT Stay Clamp(150x150 mm RS Joist)	Pair	2	177.50	355.00
19	7/10 SWG Stay Wire ,7/3.25 mm	KG	25	106.50	2,662.50
20	GI Pipe for earthing 40mm dia 3mtr long	EA	5	1,491.00	7,455.00
21	Earthing of support Coil Type	No	1	235.72	235.72
22	Pipe HDPE(25 mm)	Mtr.	15	56.80	852.00
23	GI Pipe(100 mm)	Mtr.	3	710.00	2,130.00
24	1.1 KV 4Cx 95 sq. mm LT XLPE cable(Un Armoured)	Mtr	23	523.88	12,049.24
25	1 Core 95 sq. mm LT XLPE cable	Mtr	32	208.74	6,679.68
26	LT Distrubution Box with MCCB, Aluminim Busbar for 63 KVA S/S.	No	1	26,017.24	26,017.24
27	Al. cable socket 70 sq. mm	No	80	21.30	1,704.00
28	Al. cable socket 95 sq. mm	No	16	28.40	454.40
29	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2,769.00
30	Materials for Masonary work for earth pit	No.	5	568.00	2,840.00
31	Charcoal, salt etc for earthing	Kg	10	639.00	6,390.00
32	GI barbed wire/Anticlimbing device	No	4	113.60	454.40
33	Danger plate	No	2	113.60	227.20
A	A. Sub total				375,346.17
B	B. Stock, Storage & Insurance @ 3% of A				11,260.39

C	Sub Total (C=A+B)				386,606.56
D	T&P @ 2% of C				7,732.13
E	Contingency @ 3% of C				11,598.20
F	Transportation @ 7.5% of C				28,995.49
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				11,471.40
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				15,717.86
J	Total				462,121.63
34	Fabrication and galvanisation	Kg	344	13.00	4,472.00
35	Concrete materials for stay anchor plate	M3	2	1,653.00	3,306.00
36	Padding and concreting material for Support	M3	2	2,837.90	5,675.80
37	Economic Brick Design Fencing	EA	1	92,622.57	92,622.57
	Total Rs.				568,198.00
	Sub Total Rs.				2,666,217.64
PART-B	AREA ILLUMINATION				
1	40001027 Supply and laying of 10 sq.mm 2 core PVC Al. Arm Cable of 1.1 KV grade ISI Marked direct in ground including excavation , sand cushioning , protective covering and refilling the trench etc. as required. (sl no- 5.1.1)(Make Cable- Finolex/ Havells/ Polycab/KEI)	MTR	160	267.85	42,856.00
2	40001126 providing and fixing 8 SWG(4mm)dia copper wire on surface or in recess for loop earthing as required (sl no- 3.18)	RFT	48	31.88	1,530.24
3	40002124 Supply & fixing of outdoor/indoor type 63A DPMCB panel having I/C-63 A DPMCB-01 No & 63 Amp 2P Change Over/rotary switch ,Outgoing -02 Nos 32 Amp DPMCB & 02 nos 32 A DP switch with powder coating all accessories & connection Make a) MCB/MCCB- legrand/schneider/abb/L&T/ Anchor/Panasonic (b) Voltmeter/Ametre-AE/CAPPA	NO	1	20,125.00	20,125.00
4	40002201 Supply & fixing of 200x150mmx60mm(nominal) size pvc(SINTEX) looping end box with hinged cover having one no.20 amp rating moulded fuse base & holder, 4amp NS type fuse and 4way connector to be used in the bottom of street light pole for cable termination as per electrical engg -in -charge and consultant and complete as per electrical engg -in -charge and consultation	NO	40	1,100.00	44,000.00

5	40002239 Supply and laying of 2.5Sqmm 3 Core Copper Cable 20 mm dia non-metalic heavy duty flexible conduit 1.6 mm thick (Make of wire Finolex/L &T/Anchor/Havels/V Guard)	MTR	200	89.66	17,932.00
6	40008291 Supply and fixing of Earthing with GI earth pipe 3 meter long 40 mm dia Heavy Duty TATA make including accessories and providing masonary enclosure with cover plate having locking arrangement and water pipe etc with charcoal and salt as required.(Minimum 1.5 mtr distance from building & 3 mtr distance from earthing to earthing)	NO	2	3,757.95	7,515.90
7	40008405 Supply & fixing of 90 Wt. LED Street light fitting comprises of Pressure die cast Aluminium housing powder coated in silver grey and toughened glass, Surge Arrester 1 No & 100lum/wt, Protection IP66 having LM 79 LM 80 tested including bulb, choke,cover,G.I bracket,clamp & nut bolt connecting wire with all accessories.(Make- CROMPTON (MODEL NO-TRP-412-90-57-SL-LM-NSG)/ PHILIPS(MODEL NO-BRP033 LED90S 90W 9000LM)/WIPRO(MODEL NO-LR08-102-XXX-57-XX)	NO	20	7,574.77	151,495.40
8	40008415 Supply & fixing of 120 Wt. LED FLOOD light fitting comprises of Pressure die cast Aluminium housing powder coated in silver grey and toughened glass, Surge Arrester 1 No & 100lum/wt, Protection IP66 having LM 79 LM 80 tested including bulb, choke, cover,G.I bracket,clamp & nut bolt connecting wire with all accessories and as per instruction of Electrical Engineer-in-charge . (Make- CROMPTON(MODEL NO-TFS-504-120-57-60D-SL-GL-NSG/PHILIPS (MODEL NO-BVP142 LED100S 110W 11000)/ WIPRO(MODEL NO-LF40-132-060-57-XX) Ground Floor	NO	20	11,065.37	221,307.40
				TOTAL RS.	506,761.94
PART-C	LIGHTNING PROTECTION SYSTEM				
1	40002086 Air-Terminal Supply, Installation, Testing & Commissioning of Early Streamer Emission (ESE-30))type Lightning Air Terminal. Supporting Mast The mounting pole used to support the lightning air terminal shall be minimum length of 05 Mtr. , non corrosive and made up of medium class GI / SS pipe of 1.5" diameter having base plate at bottom for securely fixing the mast on roof top. The mounting pole and supports shall be securely fixed with the brackets and PVC insulated metallic guy wires to withstand the maximum wind velocity of that area. Protection Radius :- 48 Mtr Make :- ABB / STROMKING All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.	NO	2	99,250.00	198,500.00

2	Lightning Strike Counter Supply, Installation, Testing & Commissioning of non-electronic & non-resettable (Not require any external power supply) type lightning strike counter to count the lightning stroke having display with IP-67 enclosure including all accessories and connection..(6/7 digit)	No	2	27,250.00	54,500.00
3	40002095 Supply, Installation, Testing & Commissioning of maintenance free chemical earthing having enhancing chemical compound with 3 Mtr. Long copper bonded steel rod and suitable termination clamp including all accessories. Make :- ABB / STAR-X / UNIVERSAL All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.	NO	5	16,650.00	83,250.00
4	40002098 Supply, connection & Testing of sub earthing with 16 Sq.mm single core multi stranded copper flexible wire from surge protection device (SPD) panel to earth electrode & Main panel board to SPD panel including all accessories, cable socketing and connections. Make :- FINOLEX / ANCHOR / HAVELLS All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge	MTR	18	154.73	2,785.14
5	40002101 Supply, Installation, Testing & Commissioning of indoor type wall mounted Surge protection device (SPD) panel made of 2 mm thick CRCA sheet, dust and vermin proof duly powder coated having the following arrangement & complete factory wired by 16 Sq.mm single core multi stranded copper flexible wire. [A] Type 1+2 AC Surge Protection Device (SPD) (TP+N) (50 KA) - 01 Set [B] 63 Amp. HRC fuse with link – 03 Nos [C] 100 Amp. 4 pole stud connector – 01 No Make of SPD & HRC Fuse :- HAVELLS / L&T / LEGRAND Make of Wire :- FINOLEX / ANCHOR / HAVELLS All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.	NO	1	18,665.00	18,665.00
6	40002720 Supply and laying of 70sqmm single core FR PVC insulated unseathed copper conductor for voltage grade 1100 volt as per IS-694 in sur face/underground as required(sl no-5.5.2)(Make KEI/FINOLEX/HAVELLS)	MTR	60	1,071.33	64,279.80
7	40003593 Supply & Erection of 12 mtr long Heavy gauge Tata MS stepped pole(6mtrx4inch and 6 mtr x 4 inch) with 2ft x2ft x 10mm MS Base plate and 30 cm x 30cm x6mm MS Top plate including fabrication,painting with 1 coat red oxide and 2 coat aluminium paint/12 mtr long heavy gauge G.I stepped pole with 4nos complete stay set for support of pole coupling and concrting along with all accessories complete as required and as per electrical engineer-in-Charge. Ground Floor	SET	2	44,714.99	89,429.98
				TOTAL RS.	511,409.92

PART-D	SOLAR PV SYSTEM				
1	DESIGN, SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 8 KWp. OFF-GRID SOLAR PV SYSTEM (GROUND/ROOF TOP) MOUNTED WITH 6 HR. POWER BACK UP AND COMPREHENSIVE MAINTENANCE CONTRACT FOR A PERIOD OF 05 FIVE YEARS (SIXTY MONTHS)	KW	8	86,000.00	688,000.00
				TOTAL RS.	688,000.00
	Sub Total Rs.(PART-A+PART-B+PART-C+PART-D)				4,372,389.50
	Cess @ 1%				43,723.89
	Total Estimated Cost				4,416,113.39
	Total Estimated Cost in Figures				4,416,113.00
EXCESS	<div><input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick)</div>	<div>In Figure _____ %</div> <div>In word _____ %</div>			
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)**