

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 :- 08 AS PER IFB

NAME OF THE WORK :- EXECUTION OF AREA ILLUMINATION WORK, EXTERNAL ELECTRIFICATION WORK, INSTALLATION OF LIGHTNING PROTECTION SYSTEM & SOLAR P.V SYSTEM AT COB FOR C.A.P.F AT DHARAKOTE IN THE DISTRICT OF KANDHAMAL.

BID REF NO.- 65/PM/ELECT/OPHWC/2025-26

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
PART-A	EXTERNAL ELECTRIFICATION WORK				
I	3 phase 3W 11 KV line with 55 sq. mm AAAC -1.325 Km(With Road cross Guarding 3 Nos.)				
1	11 Mtr Long (160x152)mm WPB Pole(30.44 Kg/mtr)including Base Plate	No	27	34,321.52	926,681.04
2	11 KV 'V' cross arm(10.2 Kg each)	No.	20	1,150.20	23,004.07
3	11 KV F clamp 2.9 Kg each	No	20	340.80	6,815.93
4	GI Back clamp for 11 KV V Cross Arm	No.	20	113.60	2,272.03
5	Disc insulator 45 KN (B&S) Polymer	No.	45	1,221.20	54,954.00
6	11 KV HW fitting (B&S) type 2 bolted	No	45	369.20	16,614.00
7	11KV Pin Insulator polymer	No.	83	284.00	23,572.00
8	Earthing Device coil type GI	No	27	235.72	6,364.44
9	No.8 GI wire dia 4.6 mm ,0.131 Kg/Mtr.-2 mtr. Each pole connecting pole with coil earthing.	Kg	7.074	106.50	753.38
10	Danger Board	No	27	113.60	3,067.20
11	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	8.124	106.50	865.21

12	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	81	113.60	9,201.60
13	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr.	Kg	32.497	106.50	3,460.93
14	55 sq. mm AAAC	Km	4.09425	42,600.00	174,415.05
15	PG clamp for 55 sq. mm AAAC	No.	48	681.60	32,716.80
16	HT stay set (Complete)	No.	14	1,491.00	20,874.00
17	HT stay Insulator, Type-C	No.	14	71.00	994.00
18	Stay clamp(1.9 Kg/Pair)	pair	14	177.50	2,485.00
19	7/10 SWG GI Saty wire	Kg	140	106.50	14,910.00
20	GI Nuts & Bolts	Kg	59	110.76	6,534.84
21	100x50x6 mm GI channel for straight cross arm,1.2 Mtr. Each 2 Nos. & 0.3 Mtr. 2 Nos. including tapping point.	Kg	347.76	106.50	37,036.44
22	Fish plate 50x8 mm (3.14 Kg/Mtr.)each 0.3 Mtr. Length	Kg	16.296	106.50	1,735.52
23	No.6 GI wire	Kg	90	106.50	9,585.00
24	No. 8 GI wire	Kg	15.72	106.50	1,674.18
25	75x40x6 mm Channel st. cross arm @ 6.8 Kg/Mtr.(3.23 Mtr. Long 4 Nos. Channels) with Galvanisation for Road cross guarding	Kg	122.4	106.50	13,035.60
26	Eye Hook	Nos.	12	85.20	1,022.40
27	GI Pipe earthing 40 Dia Medium gauge 3 mtrs long for earthing device	No	6	1,491.00	8,946.00
28	50x6 mm GI Flat for earthing, 2.36 Kg/Mtr.(2.5 Mtr. Mesh foundation and 2.5 Mtr. for raising)	Kg	90	106.50	9,585.00
29	Black paint	Ltr.	13.500	312.40	4,217.40
30	Yellow colour paint for Background	Ltr.	27.000	212.77	5,744.79
31	Sundries	No.	1	2,000.00	2,000.00
32					1,425,137.86
33	Salvage value @8%				114,011.03
	Total Rs.				1,311,126.83
II	LINE DP WITH 400 A AB SWITCH-1 No.				
1	11 Mtr Long (160x152)mm WPB Pole(30.44 Kg/mtr)including Base Plate	No	2	34,321.52	68,643.04
2	Top Pressure Channel 100X50X6mm.2.8mtr. Long 2Nos.(9.2kg/mtr.)	Kg.	51.52	106.50	5,486.88

3	Bracing Channel 75x40x6mm. 2.8 mtr. Long 2 Nos. (6.8kg./mtr.)	Kg.	38.08	106.50	4,055.52
4	50x50x6mm Cross Bracing angle,4.0 mtr. Long 2 Nos. (4.5 kg./mtr.)	Kg.	36	106.50	3,834.00
5	A/B switch Mounting Channel 75x40x6mm. 2.8 mtr. Long 2 Nos. (6.8kg./mtr.)	Kg.	38.08	106.50	4,055.52
6	Supporting Channel for AB switch Handle(75x40x6 mm)MS Channel,06 Mtr. Long,1 No. 6.8 Kg/Mtr.	Kg.	6.44	106.50	685.86
7	Channel support for down pipe 75x40x6 (75x40x6 mm),6.8 Kg/Mtr., each channel length 0.8 Mtr., 1 No. Channel required	Kg.	5.44	106.50	579.36
8	Disc insulator 45 KN (B&S) Polymer	No.	6	1,221.20	7,327.20
9	11 KV HW fitting (B&S) type 2 bolted	No	6	369.20	2,215.20
10	11KV Pin Insulator polymer	No.	3	284.00	852.00
11	PG clamp for 55 sq. mm AAAC	No.	6	681.60	4,089.60
12	Fish plate, 50x8 mm, 0.97 Kg/mtr.,each 0.2820 mtr. Length	Kg	5.275	106.50	561.79
13	11KV AB switch(3 pole,400 Amp,50Hz)	Set	1	16,827.00	16,827.00
14	12 KV,9 KA LA	No.	3	1,420.00	4,260.00
15	HT stay set (Complete)	No.	4	1,491.00	5,964.00
16	HT stay Insulator, Type-C	No.	4	71.00	284.00
17	Stay clamp(1.9 Kg/Pair)	pair	4	177.50	710.00
18	7/10 SWG GI Saty wire	Kg	40	106.50	4,260.00
19	Earthing Device coil type GI	No	2	235.72	471.44
20	No.8 GI wire dia 4.6 mm ,0.131 Kg/Mtr.-2 mtr. Each pole connecting pole with coil earthing.	Kg	0.524	106.50	55.81
21	GI Pipe earthing 40 Dia Medium gauge 3 mtrs long for earthing device	No	3	1,491.00	4,473.00
22	50x6 mm GI Flat for earthing, 2.36 Kg/Mtr.(2.5 Mtr. Mesh foundation and 2.5 Mtr. for raising)	Kg	35.4	106.50	3,770.10
23	Danger Board	No	2	113.60	227.20
24	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	0.6018	106.50	64.09
25	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	6	113.60	681.60
26	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr.	Kg	2.407	106.50	256.35
27	GI Nuts and Bolts of assorted size	Kg	10	110.76	1,107.63
28	Black paint	Ltr.	1	312.40	312.40

29	Yellow colour paint for Background	Ltr.	2	212.77	425.54
30	Sundries (Al. binding tape, insulation tape, paint etc.)	LS	1	1,500.00	1,500.00
					148,036.12
III	Installation of 63 KVA 11/0.4KV sub station - 1 No.				
1	11 Mtr Long (160x152)mm WPB Pole(30.44 Kg/mtr)including Base Plate	No	2	34,321.52	68,643.04
2	Earthing Device coil type GI	No	2	235.72	471.44
3	No.8 GI wire dia 4.6 mm ,0.131 Kg/Mtr.-2 mtr. Each pole connecting pole with coil earthing.	Kg	0.524	106.50	55.81
4	Top Pressure Channel 100x50x6mm channel each 2.8 mtr long,2 Nos(9.2K.g/mtr)	K.g	51.52	106.50	5,486.88
5	Transformer Mounting 100x50x6 mm channel each 2.8 mtr long,2 Nos(9.2K.g/mtr)	K.g	51.52	106.50	5,486.88
6	AB switch & HG fuse mounting channel(75x40x6)mm,each 2.8mtr long 4 No(6.8Kg/mtr)	K.g	76.16	106.50	8,111.04
7	Cantilever GI Channel for supporting AB switch Arm 75x40x6mm. 1 mtr. Long 2 Nos. (6.8kg./mtr.)	Kg.	13.6	106.50	1,448.40
8	Cantilever angle for supporting HG fuse 50x50x6mm 1.5 mtr. Long 2 Nos. (4.5 kg./mtr.)	Kg.	13.5	106.50	1,437.75
9	Transformer Belting GI Angel 50x50x6 mm channel each 1.5 mtr long,2 Nos(4.5 K.g/mtr)Total 7 Mtr	Kg.	31.5	106.50	3,354.75
10	GI angle for mounting LT Distribution Box 50x50x6 mm Angle,1.0 Mtr. Long,2 Nos. 4.5 Kg/Mtr. .		9	106.50	958.50
11	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	6.44	106.50	685.86
12	Channel support for down pipe 75x40x6 (75x40x6 mm),6.8 Kg/Mtr., each channel length 0.8 Mtr., 1 No. Channel required	K.g	5.44	106.50	579.36
13	Disc insulator 45 KN (B&S) Polymer	No.	3	1,221.20	3,663.60
14	11 KV HW fitting (B&S) type 2 bolted	No	3	369.20	1,107.60
15	11KV AB switch(3 pole,200 Amp,50Hz)	Set	1	10,437.00	10,437.00
16	11KV HG fuse (3 pole,200 Amp)with PI	Set	1	8,690.40	8,690.40
17	9KV 5 KA LA, Station class	No.	3	1,391.60	4,174.81
18	HT stay set (Complete)	No.	4	1,491.00	5,964.00
19	HT stay Insulator, Type-C	No.	4	71.00	284.00

20	Stay clamp(1.9 Kg/Pair)	pair	4	177.50	710.00
21	7/10 SWG GI Saty wire	Kg	40	106.50	4,260.00
22	40 mm Nominal bore GI Pipe Medium gauge(3.25 mm thickness) earthing device 3 mtrs long	No	7	1,491.00	10,437.00
23	25x6 mm GI flat(Neutral)	Kg	10	106.50	1,065.00
24	25x4 mm GI flat(for LA)	Kg	60	106.50	6,390.00
25	55 sq. mm AAAC for jumpering	Km	0.05	42,600.00	2,130.00
26	PG clamp for 55 sq. mm AAAC	No	3	681.60	2,044.81
27	GI Nuts and Bolts of assorted size	Kg	25	110.76	2,769.07
28	63 KVA 11/0.4 KV (AL) Transformer with BIS Energy Level-II	No	1	122,830.00	122,830.00
29	LT Distribution box(GI) with Aluminium busbar of single Bay kitkat fuse for 63 KVA S/S.	No	1	26,017.24	26,017.24
30	1 core 95 sq. mm LT XLPE cable(un armoured)	Mtr.	40	208.74	8,349.49
31	Danger Board	No	2	113.60	227.20
32	Back clamp for danger Board(25x3 mm) GI earth flat,0.59 Kg/mtr. & 0.51 Mtr. For ech back clamp	Kg	0.6018	106.50	64.09
33	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	6	113.60	681.60
34	Back clamp for barbed wire anticlimbing deice 25x3 mm, flat,0.59 Kg/mtr. & 0.51 Mtr.	Kg	2.407	106.50	256.35
35	Black paint	Ltr.	1	312.40	312.40
36	Yellow colour paint for Background	Ltr.	2	212.77	425.54
37	Sundries (Al. binding tape, insulation tape, paint etc.)	LS	1	1,000.00	1,000.00
					321,010.89
	A.Sub Total Rs.				1,780,173.83
B	Stock,storage and insurance (@3% on A)				53,405.22
C	TOTAL RS.				1,833,579.05
D	T&P @ 2% of C				36,671.58
E	Contingency @ 3% of C				55,007.37
F	Transportation @ 7.5% of C				137,518.43

G	Erection charges @ 10% on others ,5% on Dist. Transformers/Joist Pole/WPB Poles and 20% on PSC poles				126,055.79
H	TOTAL RS.				2,188,832.22
38	Stay concreting in ratio 1:2:4(0.5x0.5x0.8)Mtr. as per TPSODL specification and drawing =0.2 cum	Nos.	22	1,329.77	29,254.97
39	Concreting of 11 Mtr. WPB Pole in ratio 1:1:5:3=0.45 cum+Couping in ratio 1:1:5:3=0.1125 Cum @6648.85	Nos.	31	3,739.98	115,939.47
40	Materials for earthing including massonary work for eathpit & cement plate cover with salt, charcoal etc.	No	16	3,784.73	60,555.66
41	Construction of Boundary wall for fencing of DPM S/S in the size 3x3 Mtr. @ 7300.12/RM (as per TPSODL Drawing & specification)	RM	12.00	7,300.12	87,601.42
42	Survey and digitization of new DSS and its internals including attrubutes.(GIS service)	No.	1	6,883.00	6,883.00
43	Survey of incremental / delta network and assets changes of 11 KV network and updation in GESW database.(GIS service)	Km	1.325	9,633.00	12,763.73
44	Dismantling charges of Line & Pole as per estimate and site requirement.	Ls	1	41,569.37	41,569.37
				Total Rs.	354,567.62
IV	LT LINE-0.6 Km(3x35+1x25+1x16) sq. mm AB Cable				
1	8 Mtr. Long 200 KG PSC Pole	No	18	2,840.00	51,120.00
2	3x35+1x25+1x16 sqmm AB Cable	Km	0.60	170,400.00	102,240.00
3	Danger Board	No.	18	113.60	2,044.80
4	Anticlimbing Device(GI barbed wire 3 Kg per support)	Kg	54	113.60	6,134.40
5	Pole clamp for eye Hook for AB cable	Pair	22	284.00	6,248.00
6	Suspension clamp with I Hook for ABC	No.	11	482.80	5,310.80
7	Eye hook for AB Dead End cable	No.	11	85.20	937.24
8	Dead end clamp suitable for XLPE cable	No	12	92.30	1,107.56
9	L.T Stay set (Complete)	Set	9	738.40	6,645.60
10	L.T Stay Insulator	No.	9	42.60	383.40
11	L.T Stay Clamp(1.4 K.g/Pair)	Pair	9	156.20	1,405.80
12	7/12 SWG Stay Wire	Kg	108	106.50	11,502.00

13	Earthing device coil type(GI)	No	18	235.72	4,242.96
14	GI Nuts and Bolts of assorted size	Kg	54	110.76	5,981.04
	A.Sub Total Rs.				205,303.60
B	Stock,storage and insurance (@3% on A)				6,159.11
C	TOTAL RS.				211,462.70
D	T&P @ 2% of C				4,229.25
E	Contingency @ 3% of C				6,343.88
F	Transportation @ 7.5% of C				15,859.70
G	Erection charges @ 10% on others ,5% on Dist. Transformers/Joist Pole/WPB Poles and 20% on PSC poles				26,411.63
H	TOTAL RS.				264,307.17
	Total Rs.				2,807,707.02
PART-B	AREA ILLUMINATION				
1	40001030 Supply and laying of 16 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.	60	288.46	17,307.60
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)	Kg	59	31.88	1,880.92
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 & connectionMake a)MCB/MCCB- legrand/schnider/abb/,L&T/Anchor/Panasonic (b)Voltmeter/Ametre-AE/CAPPA	NO	2	20,125.00	40,250.00
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 consoltant and complite as per electrical engg -in -charge and consultation.	NO	30	1,100.00	33,000.00

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.	180	89.66	16,138.80
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 masonry 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	13	7,574.77	98,472.01
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)	MTR	22	11,065.37	243,438.14
9	40012515 Supply, erection & stringing of 1-phase 2-wire L.T line with (1X35 + 1 x25) mm² AB cable over 8mtr long PSC Pole along the road. (30 Mtr Span).	MTR	200	322.75	64,550.00
				TOTAL RS.	522,553.37
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	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
3	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	10	154.73	1,547.30
4	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
5	40002720 Supply and laying of 70sqmm single core FR PVC insulated unsheathed 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	50	1,071.33	53,566.50

6	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	1	44,714.99	44,714.99
				TOTAL RS.	400,243.79
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)	KWp	8	86,000.00	688,000.00
				TOTAL RS.	688,000.00
	Sub Total Rs.(PART-A+PART-B+PART-C+PART-D)				4,418,504.18
	Cess @ 1%				44,185.04
	Total Estimated Cost				4,462,689.22
	Total Estimated Cost in Figures				4,462,689.00
EXCESS	LESS (Please Tick)	In Figure _____ % In word _____%			
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.)