

Tender Inviting Authority: JOINT MANAGER [ELECTRICAL DIVISION] ,  
THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD,

Name of work :-Supply, Installation, Testing & Commissioning of External Lighting work, Lightning Protection System and Fire Extinguisher at Jeypore Bus Stand in the district of Koraput.

BID REF NO.-44/JM/ ELECT/OPHWC/2020-21

Bidder  
Name

**SCHEDULE OF WORKS**

Sl. No.	Description of work	Qty.	Unit	Estimated Rate	AMOUNT Rs.
A	<b>EXTERNAL LIGHTING WORK</b>				
1	Supply & fixing of Mini Deco Flood light with spike Equiv. to WIPRO/ CROMPTON/ PHILIPS Cat No. BGP311 3X LED HP/NW 220-240V 36 1N . With ZGP662 SPIKE and Junction Box.	Nos	8.00	10895.00	87160.00
2	Supply & fixing of Street light Fixture on 7 meter long M.S. pole suitable for LED lamp Equiv. to WIPRO/ CROMPTON/ PHILIPS Cat No. BRP022 LED 21CW M2S1 PSU GR With Junction Box.	Nos	16.00	14942.00	239072.00
3	Supply & fixing of Decorative POST TOP LED Fixture With Die Casted and extruded Aluminum Body & poly carbonate Opal Diffuser suitable for LED LAMP Equiv. to WIPRO/ CROMPTON/ PHILIPS Cat No. BGP151 LED 2000/WW PSU 220-240V 7043 With Junction Box.	Nos	6.00	15000.00	90000.00
4	Supply, delivery, erection, testing and commissioning of 16.5mtr High Mast consists of 6nos 1 x 150 w LED fittings complete with all mechanical accessories including motorised winch, head frame, carriage ring. the winch shall be double drum, 5 nos wire ropes( 6mm) , hot dipped galvanised, complete with all foundation accessories like foundation bolts, anchor plates, lightning arrestor, aviation light .the electrical accessories include 2.5sqmm x5 core cable, timer panel with 32 amp 4P MCB along with 65KA SPD 4nos., motor 2 h.p.(kirloskar /gec /elgi/-crompton) and associated starter.complete as required and as per the direction of Engineer-in-charge. (Make- BAJAJ/CROMPTON/ PHILIPS)	Nos	3.00	400000.00	1200000.00

5	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 4 core 16 sq.mm Aluminium on surface as required.(For ZONE-3, LIFT, KIOSK METER Panel)(Make-Finolex/ Havells/ Polycab)	Rmt	680.00	256.00	174080.00
6	<b>END TERMINATION</b>				0.00
7	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum cable of 1.1 KV as required.				0.00
8	4C x 16 sq.mm	set	66	230.00	15180.00
9	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 2Cx 6 sq.mm direct in ground in the same trench in one tier horizontal formation including excavation , sand cushioning protective covering and refilling the trench etc. as required.(Make-Finolex/ Havells/ Polycab)	Rmt	630.00	206.00	129780.00
10	Supplying and making end termination with brass compression gland and aluminum lugs for 2C x 6 sq.mm of PVC insulated and PVC sheathed / XLPE aluminum cable of 1.1 KV as required.	set	20.00	100.00	2000.00
11	Recessed wiring with 2 x 4 sq.mm FR PVC insulated single core multistrand copper conductor of ISI marked confirming to IS-694/1990 in 20 mm dia non-metalic heavy duty flexible conduit 1.6 mm thick along with 1 x 2.5 sq.mm FR PVC insulated single core multistrand copper conductor as earth wire as Required in ground.(Make- Finolex/ Havells/ Polycab)	Rmt	250.00	150.00	37500.00
12	Supplying and fixing of 16 / 18 SWG metal box of 200 mm x 150 mm x 60 mm deep on surface / recess with suitable size of phenolic laminated sheet cover in front including cutting the wall and making good the same in case of recessed conduit as required.	set	30.00	153.00	4590.00
13	Supplying and fixing of of 50mm G.I pipe(Medium Class) along with accessories in ground including cutting & making good the same as required.	Mtrs	100.00	150.00	15000.00

14	Supply and fixing of 63 AMP 4P MCB-1NO,63 AMP,415 V CUTOUT-3 NOS WITH COPPER BUS BAR >< INDICATOR ETC including all accessories and connections As per instruction of electrical engineer -in-charge [Make-(a)MCB /MCCB - Legrand/ Schnider/ L><T/ ABB, ( b)Volt meter, Ammeter-AE/CAPPA, (d) all other accessories ISI mark]	set	3.00	20806.80	62420.40
15	Supply & fixing of outdoor/indoor type 63A DPMCB panel having I/C-63 A DPMCB-01 No & 63 Amp 2P Change Over,Outgoing -02 Nos 32 Amp DPMCB & 02 nos 32 A DP switch with powder coating all accessories & connection.[make-(a)MCB /MCCB - Legrand/ L&T/ ABB, ( b)volt meter, ammeter-AE/IMP, (d) all other accessories ISI mark]	Set	3	22,540.00	67620.00
<b>B</b>	<b>LIGHTNING PROTECTION</b>				
1	<p><b><u>Air-Terminal</u></b> Supply, Installation, Testing &amp; Commissioning of Early Streamer Emission (ESE) type lightning Air terminal.</p> <p><b><u>Supporting Mast</u></b> 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.</p> <p><b><u>Protection Radius :- 48 Mtr.</u></b> <b>Make :- ABB / STROMKING / POWER TRAC</b> All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	No	1	109,592.00	109,592.00

2	<p><b><u>Lightning Strike Counter</u></b>  Supply, Installation, Testing &amp; Commissioning of non-electronic &amp; 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)  <b>Make :- ABB / STROMKING / POWER TRAC</b>  All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	No	1	28,000.00	28,000.00
3	<p>Supply, Installation, Testing &amp; Commissioning of 25 x 5 MM copper flat (Insulated / through 1.5" diameter super quality PVC pipe) from lightning air terminal to earth electrode on wall / ceiling/concrete column/under buried trench by proper saddling &amp; making connection at both ends the and making good the damages caused. All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge  <b>Make of PVC Pipe :- AKG / KINJAL / ORIPLAST</b>  S..(CSR SL . NO- 3.11) .</p>	Mtr.	60	570.20	34,212.19
4	<p>Supply, Installation, Testing &amp; 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.  <b>Make :- ABB / STAR-X / UNIVERSAL</b>  All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	No	3	17,024.00	51,072.00
5	<p>Supply, connection &amp; Testing of sub earthing with 16 Sq.mm single core multi stranded copper flexible wire from surge protection device (SPD) panel to earth electrode &amp; Main panel board to SPD panel including all accessories, cable socketing and connections.  <b>Make :- FINOLEX / ANCHOR / HAVELLS</b>  All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	Mtr	18	173.30	3,119.36

6	<p>Supply, Installation, Testing &amp; Commissioning of indoor type wall mounted <b>Surge protection device (SPD)</b> panel made of 2 mm thick CRCA sheet, dust and vermin proof duly powder coated having the following arrangement &amp; complete factory wired by 16 Sq.mm single core multi stranded copper flexible wire.</p> <p>[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 &amp; HRC Fuse :- HAVELLS / L&amp;T / LEGRAND  <b>Make of Wire :- FINOLEX / ANCHOR / HAVELLS</b></p> <p>All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>	No	1	20,904.80	20,904.80
<b>C EXTINGUISHERS (MAKE- SUN MAX/ UFS/ KANEX/ CEASE FIRE)</b>					
2.0	Supply installation testing and commissioning of CO2 4.5kg capacity Fire Extinguisher made from seamless steel cylinder with initial charge complete with wall fixing bracket. The extinguisher shall conform to IS 2878 and have certification mark engraved.	Nos	20	9,500.00	190,000.00
3.0	Supply and installation testing and commissioning of 4kg dry ABC Powder type Fire Extinguisher with wall fixing bracket. The extinguisher shall conform to IS 2171 and have certificate mark engraved.	Nos	10	2,950.00	29,500.00
Total Estimated Cost in Figures.					<b>2590802.75</b>
CESS @1%					<b>25908.03</b>
TOTAL RS.					<b>2616710.78</b>
SAY RS.					<b>2616711.00</b>
EXCESS <input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick) _____%					
Quoted Amount in Figures.					

Quoted Amount in words	
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**N.B-The Estimate Cost is Inclusive of G.S.T i.e. @ 12%**

Signature of Tenderer with seal

Sd/-  
Asst. Project Manager (Elect.)

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

Sd/-  
Joint Manager (Elect.)