

**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 :- 02 AS PER IFB**

**NAME OF THE WORK :- SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF AREA ILLUMINATION WORK & LIGHTNING PROTECTION SYSTEM AT FORTIFIED POLICE STATION BUILDING, KALIMELA IN THE DISTRICT OF MALKANGIRI.**

**BID REF NO :- 46/JM/ ELECT/OPHWC/2020-21**

**NAME  
&  
ADDRESS  
OF THE  
FIRM**

**SCHEDULE OF WORKS**

| <b>Sl. No.</b> | <b>Description of work</b>  | <b>Qty</b> | <b>Unit</b> | <b>Estimated Rate (Rs)</b> | <b>Estimated Amount (Rs)</b> |
|----------------|---|------------|-------------|----------------------------|------------------------------|
| <b>A</b>       | <b>AREA ILLUMINATION WORK</b>   |            |             |                            |                              |
| <b>1</b>       | Supply and fixing of 120 WT LED FLOOD Street light fitting comprises of pressure die cast aluminium housing powder coated silver grey and toughened glass,surge arrester 1 No & 100lum/wt Protection IP66 with bulb,choke,cover,G.I bracket & nut bolt connecting wire all accessories(Make-CROMPTON/PHILIPS/WIPRO) | Nos        | 16          | 13,676.95                  | 218,831.20                   |
| <b>2</b>       | 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 / L &T / Anchor / Havells/ V guard/HPL)                                 | Mtr        | 80          | 250.79                     | 20,063.20                    |
| <b>3</b>       | 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 & connectionMake a)MCB/MCCB-legrand/schnider/abb/c&s/havells/HPL,L&T, (b)Voltmeter/Ametre-AE/CAPPA             | Set        | 1           | 20,125.00                  | 20,125.00                    |
| <b>4</b>       | Supply and fixing of 4.0 sqmm 2 core PVC Aluminium service wire including all accessories and connections.(make-Joshi/Multicab)   | Mtr        | 48          | 41.28                      | 1,981.44                     |
| <b>5</b>       | Supply & Fixing of 40 mm dia 3 mtr long GI pipe including fixing and connections as per instruction of Electrical Engineer-in-charge.   | Nos        | 1           | 580.29                     | 580.29                       |

|          |   |      |    |           |           |
|----------|---|------|----|-----------|-----------|
| 6        | Supply and fixing of <b>earthing</b> with G.I. earthing pipe 3 mtr long 40 mm dia ISI marked including accessories and providing masonry enclosure with cover plate having locking arrangement and watring pipe etc with charcoal and salt as reqd. ( csr sr.no- 3.2)   | No   | 1  | 2,357.36  | 2,357.36  |
| 7        | Providing and fixing 8 SWG (4mm ) dia copper wire on surface or in recess for loop earthing as required. ( csr sr.no- 3.18)   | Rft  | 30 | 25.73     | 771.90    |
| <b>B</b> | <b>LIGHTNING PROTECTION SYSTEM</b>  |      |    |           |           |
| 1        | <p><b><u>Air-Terminal</u></b><br/>Supply, Installation, Testing &amp; Commissioning of Early Streamer Emission (ESE) type lightning Air terminal.</p> <p><b><u>Supporting Mast</u></b><br/>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><br/><b>Make :- ABB / STROMKING / POWER TRAC</b><br/>All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p> | No   | 1  | 97,850.00 | 97,850.00 |
| 2        | <p><b><u>Lightning Strike Counter</u></b><br/>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)<br/><b>Make :- ABB / STROMKING / POWER TRAC</b><br/>All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.</p>  | No   | 1  | 25,000.00 | 25,000.00 |
| 3        | Supply, Installation, Testing & 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 & 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<br><b>Make of PVC Pipe :- AKG / KINJAL / ORIPLAST</b><br>(CSR SL . NO- 3.11) .  | Mtr. | 60 | 509.11    | 30,546.60 |

|  |  |     |    |           |                   |
|--|--|-----|----|-----------|-------------------|
| 4  | 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.<br><b>Make :- ABB / STAR-X / UNIVERSAL</b><br>All the work should be carried out as per the specified specifications and instruction of the Engineer-in-Charge.  | No  | 3  | 15,200.00 | 45,600.00         |
| 5  | 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.<br><b>Make :- FINOLEX / ANCHOR / HAVELLS</b><br>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          |
| 6  | Supply, Installation, Testing & 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 & complete factory wired by 16 Sq.mm single core multi stranded copper flexible wire.<br>[A] Type 1+2 AC Surge Protection Device (SPD) (TP+N) (50 KA) - 01 Set<br>[B] 63 Amp. HRC fuse with link – 03 Nos<br>[C] 100 Amp. 4 pole stud connector – 01 No<br>Make of SPD & HRC Fuse :- HAVELLS / L&T / LEGRAND<br><b>Make of Wire :- FINOLEX / ANCHOR / HAVELLS</b><br>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         |
| <b>Total</b>   |  |     |    |           | <b>485,157.13</b> |
| <b>Or Say</b>  |  |     |    |           | <b>485,157.00</b> |
| EXCESS <input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick) _____% |  |     |    |           |                   |
| <b>Quoted Amount in Figure</b>   |  |     |    |           |                   |
| <b>Quoted Amount in word</b>   |  |     |    |           |                   |

**N.B-The Estimated cost is exclusive of G.S.T i.e. @ 12%**

**Signature of Tenderer with seal**

**Sd/-**  
**A.P.M (Elect)**

**Sd/-**  
**A.P.M (Elect) (Hqr)**

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