

**TENDER INVITING AUTHORITY: JOINT MANAGER (ELECTRICAL DIVISION),THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD, BHUBANESWAR**

**NAME OF THE WORK :-EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 6-E TYPE QTRS. AT LALBAG POLICE STATION IN THE DIST. OF CUTTACK.**

**BID REF NO.- 19/JM/ELECT/OPHWC/2020-21**

Bidder Name

**SCHEDULE OF WORKS**

| Sl. No.  | Description of work  | Unit | Qty. | Estimated Cost in Rs. |                 |
|----------|--|------|------|-----------------------|-----------------|
|          |  |      |      | RATE IN RS.           | AMOUNT IN RS.   |
| SCOPE-A  | <b>Construction of 3 ph 3 wire 11 KV line using 55 sq. mm AAA Conductor &amp; provision of Double Disc insulator at tension point-0.2 Km</b>   |      |      |                       |                 |
| 1        | 100x50x6mm MS channel  | Kg.  | 100  | 65.00                 | 6500.00         |
| 2        | 11 KV V cross Arm  | No   | 3    | 810.00                | 2430.00         |
| 3        | Back clamp for V cross arm   | No   | 3    | 80.00                 | 240.00          |
| 4        | Concreting of support & styd C.C 1:4:8 with 40 mm BHG metal size- 7'x2'x2'=28CFT=.8Cum<br>Padding 900x600x150 mm =0.081Cum   | No   | 4    | 2799.13               | 11196.52        |
| 5        | Fixing of stay set with 0.5 cum cement concret foundation 1:3:6 size (900x 600x600 mm)mm using 40 mm BHG metal with all labour and material except stay wire, stay set,stay insulator. | No   | 2    | 2455.46               | 4910.92         |
| 6        | HT Stay Set (Complete)   | Set  | 2    | 1050.00               | 2100.00         |
| 7        | HT Stay Insulator  | No.  | 2    | 40.00                 | 80.00           |
| 8        | HT Stay Clamp(1.95 K.g/Pair)   | Pair | 2    | 125.00                | 250.00          |
| 9        | 7/10 SWG Stay Wire   | KG   | 20   | 75.00                 | 1500.00         |
| 10       | 11 kv GI pin   | Set  | 12   | 80.00                 | 960.00          |
| 11       | 11 KV Pin Insulator  | Set  | 12   | 80.00                 | 960.00          |
| 12       | 11 KV Disc insulator B&S   | No.  | 24   | 390.00                | 9360.00         |
| 13       | 11 KV H/W fitting B&S  | Set  | 12   | 350.00                | 4200.00         |
| 14       | 55 sq. mm AAA conductor  | Km   | 0.6  | 30000.00              | 18000.00        |
| 15       | Earthing of support(Coil type)   | No   | 4    | 166.00                | 664.00          |
| 16       | Nut,Bolt of different sizes  | Kg   | 20   | 71.00                 | 1420.00         |
| 17       | Red Oxide Paint  | Ltr  | 8    | 150.00                | 1200.00         |
| 18       | Alluminium Paint   | Ltr  | 8    | 200.00                | 1600.00         |
| 19       | Couping of support section 15"x15" (3.9 Cft) height 2"-6" (1"-6" above G.L & 1"-0" below G.L) in C.C 1:2:4 using 12mm BHG metal & curring for 5 days.                                  | No   | 4    | 717.36                | 2869.44         |
| 20       | Sundries for survey,Danger Board, Anticlimbing Device,socket ,pvc tape, Ampire tape , Nut & bolt ,Preparation of drawing cable socket etc .  | LS   | 1    | 5000.00               | 5000.00         |
| <b>A</b> | <b>TOTAL MATERIAL COST(FOR-2019-20)</b>  |      |      |                       | <b>75440.88</b> |
| <b>B</b> | <b>Stock, Storage &amp; Insurance @ 3% of A</b>  |      |      |                       | <b>2263.23</b>  |

|                |  |      |      |          |                 |
|----------------|--|------|------|----------|-----------------|
| <b>C</b>       | Sub Total (C=A+B)  |      |      |          | <b>77704.11</b> |
| <b>D</b>       | Contingency @3% of C   |      |      |          | <b>2331.12</b>  |
| <b>E</b>       | T & P 2% of C  |      |      |          | <b>1554.08</b>  |
| <b>F</b>       | Transportation @ 7.5% of C   |      |      |          | <b>5827.81</b>  |
| <b>G</b>       | Erection Charges for PSC Pole @ 20%  |      |      |          | <b>0.00</b>     |
| <b>H</b>       | Erection Charges of DTR and Joist Poles @ 5%   |      |      |          | <b>0.00</b>     |
| <b>I</b>       | Erection Charges of other @ 10%  |      |      |          | <b>7770.41</b>  |
| <b>J</b>       | Sub Total  |      |      |          | <b>95187.53</b> |
| <b>SCOPE-B</b> | <b>Installation of 100 KVA, 11/0.4 KV S/S-1 No.</b>  |      |      |          |                 |
| 1              | 100x50x6mm MS channel  | K.g  | 51   | 65.00    | 3315.00         |
| 2              | 75x40x6mm MS channel   | K.g  | 120  | 65.00    | 7800.00         |
| 3              | 50x50x6mm MS Angle   | K.g  | 90   | 65.00    | 5850.00         |
| 4              | 11 KV AB switch 3 pole(400A)   | set  | 1    | 11850.00 | 11850.00        |
| 5              | 11KV HG fuse 3pole (400A)  | No   | 1    | 11530.00 | 11530.00        |
| 6              | 11KV L.A-12KV-10KA   | No.  | 3    | 3550.00  | 10650.00        |
| 7              | HT Stay Set (Complete)   | Set  | 2    | 1050.00  | 2100.00         |
| 8              | HT Stay Clamp(1.95 K.g/Pair)   | Pair | 2    | 125.00   | 250.00          |
| 9              | 7/10 SWG Stay Wire   | KG   | 20   | 75.00    | 1500.00         |
| 10             | 11KV Disc insulator B & S Double Disc 70 KN  | No.  | 6    | 390.00   | 2340.00         |
| 11             | 11KV H.W Fittings B&S  | No.  | 3    | 350.00   | 1050.00         |
| 12             | GI Pipe for earthing 40mm dia medium gauge 3mtr long   | No   | 5    | 1050.00  | 5250.00         |
| 13             | Fixing of stay set with 0.5 cum cement concret foundation 1:3:6 size (900x 900x600 mm) using 40 mm BHG metal with all labour and material except stay wire, stay set,stay insulator. | No   | 2    | 2455.46  | 4910.92         |
| 14             | Concreting of support CC 1:4:8 using 40 mm BHG metal size- 5'x2'x2'=20CFT=.570Cum Padding 900x600x150 mm =0.081 0.651 cum @ 3071.25 =1999.38 each                                    | No   | 2    | 2799.13  | 5598.26         |
| 15             | Couping of support section 15"x15" (3.9 Cft) height 2'-6' (1'-6' above G.L & 1'-0' below G.L) in C.C 1:2:4 using 12mm BHG metal & curring for 5 days.                                | No   | 2    | 717.36   | 1434.72         |
| 16             | Materials for massonary work for eathpit, charcoal,salt etc including construction of earthing chamber(size : 2"x2") & RCC slab cover  | No   | 5    | 2407.86  | 12039.30        |
| 17             | NO-6 GI wire   | Kg   | 20   | 75.00    | 1500.00         |
| 18             | 40x6 mm GI Flat for netural  | Kg   | 20   | 75.00    | 1500.00         |
| 19             | 80 sq. mm AAA Conductor  | Km   | 0.04 | 43000.00 | 1720.00         |
| 20             | Red Oxide Paint  | Ltr  | 3    | 150.00   | 450.00          |
| 21             | Alluminium Paint   | Ltr  | 4    | 200.00   | 800.00          |
| 22             | Black Paint  | Ltr  | 0.5  | 220.00   | 110.00          |
| 23             | Ms nut bolt & Washer   | Kg   | 36   | 71.00    | 2556.00         |

|                |   |      |      |           |                  |
|----------------|---|------|------|-----------|------------------|
| 24             | LT Distribution Box including kitkat fuse with MCCB for 100 kVA S/S with arrangement of 2 Nos I/C & 3 Nos. O/G LT Feeder .  | No   | 1    | 24419.00  | 24419.00         |
| 25             | 3 1/2 x150 mm2 PVC cable for I/C(1 No.)250 KVA Transformer  | Mtr  | 15   | 504.00    | 7560.00          |
| 26             | 3 1/2 x150 mm2 PVC cable for outgoing   | Mtr  | 40   | 504.00    | 20160.00         |
| 27             | Plinth for TFR  | No   | 1    | 16800.00  | 16800.00         |
| 28             | Boundary wall (size15'x15')with sand filling and metal spreading ,Fixing of Iron grill gate etc.  | No   | 1    | 41580.00  | 41580.00         |
| 29             | 100x116 mm RS Joist 4 Mtr Long x23 Kg for resting of LT cable   | Kg   | 92   | 65.00     | 5980.00          |
| 30             | Sundries for survey, PVC tape , ampire tape, danger board ,small size nut & bolt preparation of drawing All. Socket etc.  | LS   | 1    | 4200.00   | 4200.00          |
| <b>A</b>       | <b>TOTAL MATERIAL COST(FOR-2019-20)</b>   |      |      |           | <b>216803.20</b> |
| <b>B</b>       | <b>Stock, Storage &amp; Insurance @ 3% of A</b>   |      |      |           | <b>6504.10</b>   |
| <b>C</b>       | <b>Sub Total (C=A+B)</b>  |      |      |           | <b>223307.30</b> |
| <b>D</b>       | <b>Contingency @3% of C</b>   |      |      |           | <b>6699.22</b>   |
| <b>E</b>       | <b>T &amp; P 2% of C</b>  |      |      |           | <b>4466.15</b>   |
| <b>F</b>       | <b>Transportation @ 7.5% of C</b>   |      |      |           | <b>16748.05</b>  |
| <b>G</b>       | <b>Erection Charges for PSC Pole @ 20%</b>  |      |      |           | <b>0.00</b>      |
| <b>H</b>       | <b>Erection Charges of DTR and Joist Poles @ 5%</b>   |      |      |           | <b>0.00</b>      |
| <b>I</b>       | <b>Erection Charges of other @ 10%</b>  |      |      |           | <b>22330.73</b>  |
| <b>J</b>       | <b>Sub Total</b>  |      |      |           | <b>273551.44</b> |
| <b>SCOPE-C</b> | <b>Construction of 3 Ph 5 W LT Line with 3x95+1x70+1x16 sq. mm AB cable-0.25 KM.</b>  |      |      |           |                  |
| 3              | L.T Stay set (Complete )  | Set  | 4    | 520.00    | 2080.00          |
| 4              | 7/12 SWG Stay Wire  | Kg   | 40   | 75.00     | 3000.00          |
| 5              | L.T Stay Clamp(1.4 K.g/Pair)  | Kg   | 4    | 110.00    | 440.00           |
| 6              | L.T Stay Insulator  | No.  | 4    | 30.00     | 120.00           |
| 11             | Fixing and concreting of stay set with 0.5 cum cement concret foundation 1:3:6 size (900x 900x600 mm) using 40 mm BHG metal with all labour and material except stay wire, stay set,stay insulator. | No   | 4    | 2455.46   | 9821.84          |
| 7              | 2 Ph 3 W X arm 4.82 Kg each   | No   | 6    | 360.00    | 2160.00          |
| 9              | Nuts & Bolts  | Kg   | 15   | 71.00     | 1065.00          |
| 10             | LT Shackle insulator  | No   | 12   | 30.00     | 360.00           |
| 11             | GI strap and bolt   | Pair | 12   | 80.00     | 960.00           |
| 12             | Earthing coil each 5 th pole to earth   | No   | 2    | 166.00    | 332.00           |
| 13             | AB Cable(3x95+1x70+1x16) sq. mm   | Km   | 0.25 | 243000.00 | 60750.00         |
| 17             | Red Oxide Paint   | Ltr  | 6    | 150.00    | 900.00           |

|          |   |     |        |                |                  |
|----------|---|-----|--------|----------------|------------------|
| 18       | Alluminium Paint  | Ltr | 6      | 200.00         | 1200.00          |
| 19       | Couping of support section 15"x15" (3.9 Cft) height 2"-6" (1"-6" above G.L & 1"-0" below G.L) in C.C 1:2:4 using 12mm BHG metal & curring for 5 days. | No  | 6      | 717.36         | 4304.16          |
| 14       | Sundries(survey,tree cutting,insulated tape etc.)   | L/S | 1      | <b>1000.00</b> | <b>1000.00</b>   |
| <b>A</b> | TOTAL MATERIAL COST(FOR-2019-20)  |     |        |                | <b>88493.00</b>  |
| <b>B</b> | Stock, Storage & Insurance @ 3% of A  |     |        |                | <b>2654.79</b>   |
| <b>C</b> | Sub Total (C=A+B)   |     |        |                | <b>91147.79</b>  |
| <b>D</b> | Contingency @3% of C  |     |        |                | <b>2734.43</b>   |
| <b>E</b> | T & P 2% of C   |     |        |                | <b>1822.96</b>   |
| <b>F</b> | Transportation @ 7.5% of C  |     |        |                | <b>6836.08</b>   |
| <b>G</b> | Erection Charges for PSC Pole @ 20%   |     |        |                | <b>0.00</b>      |
| <b>H</b> | Erection Charges of DTR and Joist Poles @ 5%  |     |        |                | <b>0.00</b>      |
| <b>I</b> | Erection Charges of other @ 10%   |     |        |                | <b>9114.78</b>   |
| <b>J</b> | Sub Total   |     |        |                | <b>111656.04</b> |
| 1        | 150X150 MM 11 Mtr. Long Rs Joist Pole 4 Nos   | Kg  | 1522.4 | 65.00          | 98956.00         |
| 3        | 150X150 MM 10 Mtr. Long Rs Joist Pole 2 Nos for DP  | Kg  | 692    | 65.00          | 44980.00         |
| 2        | 100X116 MM 9 Mtr. Long Rs Joist Pole 6 Nos  | Kg  | 1242   | 65.00          | 80730.00         |
| 4        | 100 KVA ,11/0.4 KV Transformer BIS Energy Level-II  | No  | 1      | 117000.00      | 117000.00        |
| <b>A</b> | TOTAL MATERIAL COST(FOR-2018-19)  |     |        |                | <b>341666.00</b> |
| <b>B</b> | Stock, Storage & Insurance @ 3% of A  |     |        |                | <b>10249.98</b>  |
| <b>C</b> | Sub Total (C=A+B)   |     |        |                | <b>351915.98</b> |
| <b>D</b> | Contingency @3% of C  |     |        |                | <b>10557.48</b>  |
| <b>E</b> | T & P 2% of C   |     |        |                | <b>7038.32</b>   |
| <b>F</b> | Transportation @ 7.5% of C  |     |        |                | <b>26393.70</b>  |
| <b>G</b> | Erection Charges for PSC Pole @ 20%   |     |        |                | <b>0.00</b>      |
| <b>H</b> | Erection Charges of DTR and Joist Poles @ 5%  |     |        |                | <b>17595.80</b>  |
| <b>I</b> | Erection Charges of other @ 10%   |     |        |                | <b>0.00</b>      |
| <b>J</b> | Sub Total   |     |        |                | <b>413501.28</b> |
| <b>K</b> | Total Estimated Cost  |     |        |                | <b>893896.29</b> |
| <b>L</b> | Total Estimated Cost in Figures   |     |        |                | <b>893896.00</b> |

|                         |                          |      |                          |               |         |
|-------------------------|--------------------------|------|--------------------------|---------------|---------|
| EXCESS                  | <input type="checkbox"/> | LESS | <input type="checkbox"/> | (Please Tick) | _____ % |
| Quoted Amount in Figure |                          |      |                          |               |         |
| Quoted Amount in words  |                          |      |                          |               |         |

N:B- The Estimated cost is exclusive of GST @12%.

**Signature of Tenderer with seal**

**Sd/-  
Asst. Project Manager[Elect.]**

**Sd/-  
APM Elect. (Hqr.)**

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