

| 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 4-E AND 4-F TYPE QTRS. AT 4TH SSBN.,MALKANGIRI IN THE DIST. OF MALKANGIRI. |  |      |        |                       |               |
| BID REF NO.- 04/JM/ELECT/OPHWC/2019-20   |  |      |        |                       |               |
| Bidder Name  |  |      |        |                       |               |
| <u>SCHEDULE OF WORKS</u>   |  |      |        |                       |               |
| Sl. No.  | Description of work  | Unit | Qty.   | Estimated Cost in Rs. |               |
|  |  |      |        | RATE IN RS.           | AMOUNT IN RS. |
| <b>SCOPE-A</b>   | <b>Construction of 3 ph 3 wire 11 KV line using 9 mtr. Long 300 KG PSC Pole with 55 sq. mm AAA Conductor -0.07 Km(Span Length-70 Mtr.)</b> |      |        |                       |               |
| 1  | 11 KV V Cross Arm(10.2 kg each)  | No.  | 3      | 963.68                | 2891.04       |
| 2  | Back clamp for 11 KV 'V' cross arm   | No.  | 3      | 80.31                 | 240.93        |
| 3  | Top F clamp for PSC pole   | No.  | 3      | 122.83                | 368.49        |
| 4  | 11KV Disc insulator T & C Type(Double Disc)  | No.  | 30     | 327.53                | 9825.90       |
| 5  | 11KV H.W Fittings T&C Type   | No.  | 15     | 157.46                | 2361.90       |
| 6  | 11KV Pin Insulator 320 CD  | No.  | 9      | 88.19                 | 793.71        |
| 7  | 11KV GI Pin  | No.  | 9      | 90.70                 | 816.30        |
| 8  | HT stay set complete   | No.  | 5      | 1196.73               | 5983.65       |
| 9  | 11KV stay insulator  | No.  | 5      | 50.39                 | 251.95        |
| 10   | HT stay clamp for PSC Pole/RS Joist(GI)  | pair | 5      | 184.23                | 921.15        |
| 11   | 7/10 SWG stay wire   | Kg   | 40     | 94.48                 | 3779.20       |
| 12   | Earthing Device/ support coil type(GI)   | No.  | 4      | 196.52                | 786.08        |
| 13   | Base plate for support   | No.  | 4      | 291.65                | 1166.60       |
| 14   | Cocncrete material for stay anchor plate   | No.  | 5      | 1209.60               | 6048.00       |
| 15   | Padding and concreting material for Support  | No.  | 4      | 1209.60               | 4838.40       |
| 16   | MS Nut ,Bolt & Washer of different sizes   | K.g  | 3      | 94.48                 | 283.44        |
| 17   | Sundries (Paint,Danger board ,clamp,connector,Anticlimbing device ,Binding tape etc  | LS   | 1      | 500.00                | 500.00        |
| 18   | 100x50x6mm MS channel for straight cross arm 1.2 mtr 2 nos & 0.2 mtr long 2 nos)(9.2 Kg/mtr)   | Kg   | 103.04 | 75.58                 | 7787.76       |
| 19   | 9 mtr. Long 300 KG PSC Pole  | No.  | 2      | 3779.14               | 7558.28       |
| 20   | 10 mtr. Long 300 KG PSC Pole   | No.  | 2      | 5038.85               | 10077.70      |
| 21   | 55 sq. mm AAA Conductor  | Km   | 0.2163 | 37791.36              | 8174.27       |
| 22   | 75x40x6mm MS channel 1.5 Mtr. Long 4 nos. for providing guarding across road crossing @6.8 Kg/mtr.)  | Kg   | 47.6   | 75.58                 | 3597.61       |
| 23   | NO.6 GI Wire @ 40 kg per guarding & 20 kg for 2 Nos. earthing across the road crossing guarding  | Kg   | 120    | 94.48                 | 11337.60      |
| 24   | Materials for Massionary work for earth Pit, Charcoal, Salt etc for earthing   | No.  | 4      | 1723.21               | 6892.84       |
| 25   | GI pipe earthing 40 mm dia medium gauge 3 Mtr. Long  | No.  | 4      | 1625.03               | 6500.12       |

|         |   |           |          |                 |                 |
|---------|---|-----------|----------|-----------------|-----------------|
| SCOPE-B | <b>Installation of 100 KVA( Star Rated) 11/0.4KV DP mounted sub station using 9 mtr. Long 300 KG PSC Pole alongwith Barbed Fencing (size 8'x12') with 10 nos RCC piller and 3 Ply GI barbed wire &amp; grill gate &amp; locking arrangement.- 1 No.</b> |           |          |                 |                 |
| 1       | 9 mtr long 300Kg PSC pole   | No.       | 2        | 3779.14         | 7558.28         |
| 2       | Pressure Channel 100x50x6mm MS channel each 2.8 mtr long 2 Nos. (9.2 K.g per mtr)   | Kg        | 51.52    | 75.58           | 3893.88         |
| 3       | Transformer mounting channel 100x50x6mm GI channel each 2.8 mtr long (9.2K.g per mtr)x 2 nos  | Kg        | 51.52    | 75.58           | 3893.88         |
| 4       | AB switch & HG Fuse,Mounting GI Channel (75x40x6)-2.8mtr long 4 nos(6.8 k.g per mtr)  | Kg        | 76.16    | 75.58           | 5756.17         |
| 5       | Transformer belting Angle 50x50x6mm-2.8 mtr long 2 nos(4.5Kg per mtr)with side angle(Total 7 mtr)   | Kg        | 31.5     | 75.58           | 2380.77         |
| 6       | Angle for mounting LT Distribution Box(50x50x6) mm 1.0 Mtr. Long 2 Nos.(4.5 Kg/Mtr.)  | Kg        | 9        | 75.58           | 680.22          |
| 7       | 11KV Disc insulator T & C Type  | No.       | 3        | 327.53          | 982.59          |
| 8       | 11KV Hard ware fittings T & C Type  | No.       | 3        | 157.46          | 472.38          |
| 9       | 11KV AB switch 3 pole(400 Amp)  | Set       | 1        | 12597.12        | 12597.12        |
| 10      | 11KV HG fuse 3 pole(400 Amp)  | Set       | 1        | 9258.89         | 9258.89         |
| 11      | 12KV 10KA LA  | No.       | 3        | 1889.57         | 5668.71         |
| 12      | <b>LT Distribution box including kitkat fuse for 100 KVA S/S</b>  | <b>No</b> | <b>1</b> | <b>28571.27</b> | <b>28571.27</b> |
| 13      | LT 3.5 sq. mx185 sq. mm Cable   | Mtr.      | 15       | 965.96          | 14489.40        |
| 14      | HT stay set (Complete)  | No.       | 2        | 1196.73         | 2393.46         |
| 15      | stay Insulator  | No.       | 2        | 50.39           | 100.78          |
| 16      | Stay clamp  | pair      | 2        | 184.23          | 368.46          |
| 17      | 7/10 SWG GI Saty wire   | Kg        | 20       | 94.48           | 1889.60         |
| 18      | GI Pipe earthing 40 Dia Medium gauge 3 mtrs long  | No.       | 5        | 1625.03         | 8125.15         |
| 19      | Earthing of support coil type   | No.       | 2        | 196.52          | 393.04          |
| 20      | GI flat (25x6)mm  | Kg        | 54       | 94.48           | 5101.92         |
| 21      | Concrete material for stay anchor plate (0.45x0.45x1.5)mtr  | No.       | 2        | 1209.60         | 2419.20         |
| 22      | Padding and concreting material for support(0.45x0.45x1.5)mtr   | No.       | 2        | 1209.60         | 2419.20         |
| 23      | Materials for Massionary work for earth Pit, Charcoal, Salt etc for earthing  | No.       | 5        | 1723.31         | 8616.55         |
| 24      | Base plate for support  | No.       | 2        | 291.65          | 583.30          |
| 25      | MS Nuts and Bolts   | Kg        | 30       | 94.48           | 2834.40         |
| 26      | Sundries (Aluminium binding tap,insulating tap,fencing metal spreading,Anticlimbing device ,Paint,Danger Board etc)   | LS        | 1        | 1772.52         | 1772.52         |
| 27      | Fencing size 8'x12' with 10 nos RCC piller and 3 Ply GI barbed wire & grill gate & locking arrangement  | LS        | 1        | 8440.63         | 8440.63         |
| 28      | Sand and metal spreading  | LS        | 1        | 2532.19         | 2532.19         |
| 29      | 100 KVA 11/0.4 Kv Transformer   | No.       | 1        | 157464.00       | 157464.00       |
| SCOPE-C | <b>Construction of 3 Ph 5 W LT Line with 3x50+1x35+1x16 sq.mm AB Cable over 8 Mtr. Long 300 KG PSC pole .-0.35 Km</b>   |           |          |                 |                 |

|                |   |      |                          |               |                  |
|----------------|---|------|--------------------------|---------------|------------------|
| 1              | L.T Stay set (Complete )  | Set  | 5                        | 869.21        | 4346.05          |
| 2              | 7/12 SWG Stay Wire  | Kg   | 35                       | 94.48         | 3306.80          |
| 3              | Cocreting of stay   | No.  | 5                        | 1266.10       | 6330.50          |
| 4              | L.T Stay Clamp(1.4 K.g/Pair)  | Pair | 5                        | 184.23        | 921.15           |
| 5              | L.T Stay Insulator  | No.  | 5                        | 31.49         | 157.45           |
| 6              | Dead end clamp  | No.  | 7                        | 377.71        | 2643.97          |
| 7              | Suspension clamp I Hook   | No   | 3                        | 401.53        | 1204.59          |
| 8              | Strain fittings   | No   | 7                        | 72.35         | 506.45           |
| 9              | Saundries(paint, binding tape)  | LS   | 1                        | 400.00        | 400.00           |
| 10             | Nuts and bolts  | No   | 4                        | 94.48         | 377.92           |
| 11             | AB cable(3x50+1x35+1x16 sq. mm)   | Km   | 0.3605                   | 196515.07     | 70843.68         |
| 12             | 8 Mtr. Long 200 KG psc pole(intermediate support)   | No   | 7                        | 2519.42       | 17635.94         |
| <b>SCOPE-D</b> | <b>Construction of 3 ph 3 wire 11 KV line Line AB Switch with DP structure -1 No</b>                                |      |                          |               |                  |
| 1              | 9 mtr. Long 300 KG PSC Pole   | No.  | 2                        | 3779.14       | 7558.28          |
| 2              | 100x50x6mm MS channel 2.8 Mtr. Long 2 Nos. for top channel  | Kg   | 51.52                    | 75.58         | 3893.88          |
| 3              | AB switch Mounting Channel (75x40x6)- 2.8mtr long 2 nos(6.8 k.g per mtr)  | Kg   | 38.08                    | 75.58         | 2878.09          |
| 4              | (50x50x6) mm ms angle 2.8 Mtr. & 3.5 Mtr. Long 2 Nos. for providing cross bracing at bottom of DP(4.5 Kg/Mtr.)      | Kg   | 56.7                     | 75.58         | 4285.39          |
| 5              | 11KV Disc insulator T & C Type  | No.  | 3                        | 327.53        | 982.59           |
| 6              | 11KV H.W Fittings T&C Type  | No.  | 3                        | 157.46        | 472.38           |
| 7              | 11KV 400 A AB switch 3 pole   | Set  | 1                        | 12597.12      | 12597.12         |
| 8              | HT stay set complete  | No.  | 2                        | 1196.73       | 2393.46          |
| 9              | 11KV stay insulator   | No.  | 2                        | 50.39         | 100.78           |
| 10             | HT stay clamp   | pair | 2                        | 184.23        | 368.46           |
| 11             | 7/10 SWG stay wire  | Kg   | 20                       | 94.48         | 1889.60          |
| 12             | GI pipe earthing 40 mm dia medium gauge 3 Mtr. Long   | No.  | 2                        | 1625.03       | 3250.06          |
| 13             | NO.6 GI Wire for earthing   | Kg   | 20                       | 94.48         | 1889.60          |
| 14             | Coccrete material for stay anchor plate   | No.  | 2                        | 1209.60       | 2419.20          |
| 15             | Materials for Massionary work for earth Pit, Charcoal, Salt etc for earthing  | No.  | 2                        | 1723.21       | 3446.42          |
| 16             | Base plate for support  | No   | 2                        | 291.65        | 583.30           |
| 17             | Ms Nut and bolts  | Kg   | 5                        | 94.48         | 472.40           |
| 18             | Sundries (Aluminium binding tap,insulating tap,fencing metal spreading,Anticlimbing device ,Paint,Danger Board etc) | LS   | 1                        | 500.00        | 500.00           |
| A              | TOTAL MATERIAL COST IN RS.  |      |                          |               | <b>564096.40</b> |
| B              | Stock,storage and insurance (@3% on A)  |      |                          |               | <b>16922.89</b>  |
| C              | TOTAL RS.   |      |                          |               | <b>581019.29</b> |
| D              | T&P @ 2% of C   |      |                          |               | <b>11620.39</b>  |
| E              | Contingency @ 3% of C   |      |                          |               | <b>17430.58</b>  |
| F              | Transportation @ 7.5% of C  |      |                          |               | <b>43576.45</b>  |
| G              | Erection charges @ 10% of C   |      |                          |               | <b>58101.93</b>  |
| H              | TOTAL RS.   |      |                          |               | <b>711748.63</b> |
| I              | Total Estimated Cost in Figures   |      |                          |               | <b>711749.00</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 inclusive of GST.

**Signature of Tenderer with seal**

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

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

**Sd/-  
Consultant(Elect.)**

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