

| 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 CONSTRUCTION OF TEMPORARY ACCOMODATION FOR CAPF AT TENTULIGUMA IN THE DIST. OF KORAPUT. |   |      |       |                       |               |
| BID REF NO.- 10/JM/ELECT/OPHWC/2019-20  |   |      |       |                       |               |
| Bidder Name   |   |      |       |                       |               |
| <b>SCHEDULE OF WORKS</b>  |   |      |       |                       |               |
| 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 PSC Pole with 55 sq. mm AAA Conductor -0.1 Km(70 Mtr. Span)</b>   |      |       |                       |               |
| 1   | 9 Mtr. Long 300 KG PSC Pole   | No   | 2     | 3000                  | 6000.00       |
| 2   | Base Plate for support  | No   | 2     | 247                   | 494.00        |
| 3   | Earthing device/Support coil type   | No   | 2     | 166                   | 332.00        |
| 4   | 11 KV V Cross Arm(10.2 kg each)   | No.  | 2     | 810.00                | 1620.00       |
| 5   | Back clamp for 11 KV 'V' cross arm  | No.  | 2     | 80.00                 | 160.00        |
| 6   | Top F clamp for PSC Pole  | No.  | 2     | 240.00                | 480.00        |
| 7   | 11KV Pin Insulator 320 CD   | No.  | 6     | 80.00                 | 480.00        |
| 8   | 11KV GI Pin   | No.  | 6     | 80.00                 | 480.00        |
| 9   | 11KV Disc insulator T & C   | No.  | 3     | 290.00                | 870.00        |
| 10  | 11KV H.W Fittings T&C   | No.  | 3     | 130.00                | 390.00        |
| 11  | 100x50x6mm MS channel for straight cross arm 1.2 Mtr. Each 4 Nos. & 0.2 Mtr. Long 4 Nos.  | Kg   | 22.08 | 65.00                 | 1435.20       |
| 12  | HT stay set complete  | No.  | 1     | 1050.00               | 1050.00       |
| 13  | 11KV stay insulator   | No.  | 1     | 50.00                 | 50.00         |
| 14  | HT stay clamp for PSC Pole/RS Joist(GI)   | pair | 1     | 125.00                | 125.00        |
| 15  | 7/10 SWG stay wire  | Kg   | 10    | 75.00                 | 750.00        |
| 16  | MS Nut ,Bolt & Washer of different sizes  | K.g  | 2.5   | 71.00                 | 177.50        |
| 17  | 55 sq. mm AAA Conductor   | Km   | 0.309 | 30000.00              | 9270.00       |
| 18  | Concreting of stay set C.C 1.3.6 using 40 mm HBG metal=0.45Mtrx0.45x1.5 Mtr.=0.3037cum  | No.  | 1     | 1270.00               | 1270.00       |
| 19  | Concreting of support C.C 1.3.6 using 40 mm HBG metal=0.45Mtrx0.45x1.5 Mtr.=0.3037cum   | No.  | 2     | 1270.00               | 2540.00       |
| 20  | Padding and concreting material for Support   | No.  | 2     | 443.10                | 886.20        |
| 21  | Sundries(Paint,Danger board,Anticlimbing device,binding tape etc.)  | LS   | 0.1   | 1650.00               | 165.00        |
| A   | TOTAL MATERIAL COST IN RS.  |      |       |                       | 29024.90      |
| B   | Stock,storage and insurance (@3% on A)  |      |       |                       | 870.75        |
| C   | TOTAL RS.   |      |       |                       | 29895.65      |
| D   | T&P @ 2% of C   |      |       |                       | 597.91        |
| E   | Contingency @ 3% of C   |      |       |                       | 896.87        |
| F   | Transportation @ 7.5% of C  |      |       |                       | 2242.17       |
| G   | Erection charges @ 10% on others and 20% on PSC poles   |      |       |                       | 3607.56       |
| H   | TOTAL RS.   |      |       |                       | 37240.16      |
| <b>SCOPE-B</b>  | <b>Installation of 63 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 ,sand and metal spreading- 1 No.</b> |      |       |                       |               |

|    |  |      |       |          |                  |
|----|--|------|-------|----------|------------------|
| 1  | 9 mtr long 300Kg PSC pole  | No.  | 2     | 3000.00  | 6000.00          |
| 2  | Pressure Channel 100x50x6mm MS channel each 2.8 mtr long 2 Nos. (9.2 K.g per mtr)                      | Kg   | 51.52 | 65.00    | 3348.80          |
| 3  | Transformer mounting channel 100x50x6mm GI channel each 2.8 mtr long (9.2K.g per mtr)x 2 nos           | Kg   | 51.52 | 65.00    | 3348.80          |
| 4  | AB switch & HG Fuse,Mounting GI Channel (75x40x6)-2.8mtr long 4 nos(6.8 k.g per mtr)                   | Kg   | 76.16 | 65.00    | 4950.40          |
| 5  | Transformer belting Angle 50x50x6mm-2.8 mtr long 2 nos(4.5Kg per mtr)with side angle(Total 7 mtr)      | Kg   | 31.5  | 65.00    | 2047.50          |
| 6  | Angel for mounting LT distribution Box through Kit-Kat-50x50x6 mm -3.0 mtrs each Long (4.5 Kg per mtr) | Kg   | 13.5  | 65.00    | 877.5            |
| 7  | 11KV Disc insulator T & C Type   | No.  | 3     | 290.00   | 870.00           |
| 8  | 11KV Hard ware fittings T & C Type   | No.  | 3     | 130.00   | 390.00           |
| 9  | 11KV AB switch 3 pole(400 Amp)   | Set  | 1     | 11850.00 | 11850.00         |
| 10 | 11KV HG fuse 3 pole(200 Amp)   | Set  | 1     | 6120.00  | 6120.00          |
| 11 | 9 KV 10KA LA   | No.  | 3     | 1000.00  | 3000.00          |
| 12 | LT Distribution box including kitkat fuse  | No   | 3     | 361.04   | 1083.12          |
| 13 | Back clamp LT Distribution   | No   | 2     | 80.31    | 160.62           |
| 14 | HT stay set (Complete)   | No.  | 2     | 1050.00  | 2100.00          |
| 15 | 11 KV stay Insulator   | No.  | 2     | 30.00    | 60.00            |
| 16 | Stay clamp   | pair | 2     | 110.00   | 220.00           |
| 17 | 7/10 SWG GI Saty wire  | Kg   | 20    | 75.00    | 1500.00          |
| 18 | GI Pipe earthing 40 Dia Medium gauge 2.5 mtrs long   | No.  | 3     | 1050.00  | 3150.00          |
| 19 | Earthing support coil type   | No   | 2     | 166.00   | 332.00           |
| 20 | NO.6 GI Wire for earthing  | Kg   | 30    | 75.00    | 2250.00          |
| 21 | MS Nuts , Bolts and washers  | Kg   | 30    | 71.00    | 2130.00          |
| 22 | 63 KVA 11/0.4 Kv Transformer(BIS EEL-2 Star-1 rated)   | No.  | 1     | 86500.00 | 86500.00         |
| 23 | LT 3.5 core 150 sq. mm Cable   | Mtr. | 15    | 504.00   | 7560.00          |
| 24 | Concrete material for stay anchor plate (0.45x0.45x1.5)mtr   | No.  | 2     | 1270.00  | 2540.00          |
| 25 | Concreting of S/S DP   | Ls   | 1     | 1270.00  | 1270.00          |
| 26 | Materials for earthing including Massionary work for earth Pit, Charcoal, Salt and cement plate cover  | No.  | 3     | 2000.00  | 6000.00          |
| 27 | Base plate for support   | No.  | 2     | 285.71   | 571.42           |
| 28 | 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          |
| 29 | Sand and metal spreading   | LS   | 1     | 2532.19  | 2532.19          |
| 30 | Sundries(Paint,danger board etc.)  | LS   | 1     | 2000.00  | 2000.00          |
| A  | TOTAL MATERIAL COST IN RS.   |      |       |          | <b>173202.98</b> |
| B  | Stock,storage and insurance (@3% on A)   |      |       |          | <b>5196.09</b>   |
| C  | TOTAL RS.  |      |       |          | <b>178399.07</b> |
| D  | T&P @ 2% of C  |      |       |          | <b>3567.98</b>   |
| E  | Contingency @ 3% of C  |      |       |          | <b>5351.97</b>   |
| F  | Transportation @ 7.5% of C   |      |       |          | <b>13379.93</b>  |
| G  | Erection charges @ 10% on others ,5% ON Dist. Transformers and 20% on PSC poles                        |      |       |          | <b>14003.16</b>  |
| H  | TOTAL RS.  |      |       |          | <b>214702.11</b> |

|                |  |      |       |                  |                  |
|----------------|--|------|-------|------------------|------------------|
| <b>SCOPE-C</b> | <b>Construction of 3 Ph 5 W LT Line with 3x35+1x25+1x16 sq.mm AB Cable over 8 Mtr. Long PSC pole .- 0.7 Km</b> |      |       |                  |                  |
| 1              | 8 Mtr. Long 200 KG psc pole  | No   | 20    | 2000.00          | 40000.00         |
| 2              | L.T Stay set (Complete )   | Set  | 6     | 520.00           | 3120.00          |
| 3              | L.T Stay Insulator   | No.  | 6     | 30.00            | 180.00           |
| 4              | L.T Stay Clamp(1.4 K.g/Pair)   | Pair | 6     | 110.00           | 660.00           |
| 5              | 7/12 SWG GI Stay Wire Grade-2  | Kg   | 48    | 75.00            | 3600.00          |
| 6              | Ms Nuts , bolts and washer   | Kg   | 9.45  | 71.00            | 670.95           |
| 7              | AB cable(3x35+1x25+1x16 sq. mm)  | Km   | 0.721 | <b>120000.00</b> | <b>86520.00</b>  |
| 8              | Coconreting material for stay anchor plate   | No.  | 6     | <b>1270.00</b>   | <b>7620.00</b>   |
| 9              | Padding and concreting material for support  | No.  | 20    | <b>400.00</b>    | <b>8000.00</b>   |
| 10             | Suspension clamp eye Hook for ABC  | No.  | 5     | <b>340.00</b>    | <b>1700.00</b>   |
| 11             | Dead end clamp I Hook  | No.  | 2     | <b>377.11</b>    | <b>754.22</b>    |
| 12             | Strain fittings  | No   | 2     | <b>65.00</b>     | <b>130.00</b>    |
| 13             | Sundries(paint, binding tape)  | Ls   | 0.7   | <b>1250.00</b>   | <b>875.00</b>    |
| A              | TOTAL MATERIAL COST IN RS.   |      |       |                  | <b>153830.17</b> |
| B              | Stock, storage and insurance (@3% on A)  |      |       |                  | <b>4614.91</b>   |
| C              | TOTAL RS.  |      |       |                  | <b>158445.08</b> |
| D              | T&P @ 2% of C  |      |       |                  | <b>3168.90</b>   |
| E              | Contigency @ 3% of C   |      |       |                  | <b>4753.35</b>   |
| F              | Transportation @ 7.5% of C   |      |       |                  | <b>11883.38</b>  |
| G              | Erection charges @ 10% on others ,5% ON Dist. Transformers and 20% on PSC poles                                |      |       |                  | <b>19964.51</b>  |
| H              | TOTAL RS.  |      |       |                  | <b>198215.22</b> |
| <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     | 3000.00          | 6000.00          |
| 2              | Top pressure channel 100x50x6mm MS channel 2.8 Mtr. Long 2 Nos.  | Kg   | 51.52 | 65.00            | 3348.80          |
| 3              | AB switch Mounting Channel (75x40x6)-2.8mtr long 2 nos(6.8 Kg/Mtr.)  | Kg   | 38.08 | 65.00            | 2475.20          |
| 4              | Angle for Bottom DP mountain 50x50x6 mm 2.8 Mtr. Long 2 Nos. (4.5 Kg/Mtr.)7.5 Mtr                              | Kg   | 32.4  | 65.00            | 2106.00          |
| 5              | Disc insulator (T & C)   | No.  | 6     | 290.00           | 1740.00          |
| 6              | Hard ware fittings (T & C)   | No.  | 6     | 130.00           | 780.00           |
| 7              | 9 KV 5KA LA  | No.  | 3     | 980.00           | 2940.00          |
| 8              | 11KV AB switch 3 ph(400 Amp)   | Set  | 2     | 11850.00         | 23700.00         |
| 9              | HT stay set (Complete)   | No.  | 2     | 1050.00          | 2100.00          |
| 10             | 11 KV stay Insulator   | No.  | 2     | 30.00            | 60.00            |
| 11             | Stay clamp   | pair | 2     | 110.00           | 220.00           |
| 12             | 7/10 SWG GI Saty wire  | Kg   | 20    | 75.00            | 1500.00          |
| 13             | GI Pipe earthing 40 Dia Medium gauge2.5 mtrs long  | No.  | 2     | 1050.00          | 2100.00          |
| 14             | Earthing support coil type   | No.  | 2     | 166.00           | 332.00           |
| 15             | NO.6 GI Wire for earthing  | Kg   | 20    | 94.48            | 1889.60          |
| 16             | MS Nuts , Bolts and washers  | Kg   | 15    | 71.00            | 1065.00          |
| 17             | Concrete material for stay anchor plate (0.45x0.45x1.5)mtr   | Ls   | 2     | 1270.00          | 2540.00          |
| 18             | Concreting of S/S DP   | Ls   | 2     | 1270.00          | 2540.00          |
| 19             | Materials for earthing including Massionary work for earth Pit, Charcoal, Salt and cement plate cover          | No.  | 1     | 2000.00          | 2000.00          |

|        |  |     |   |         |                  |
|--------|--|-----|---|---------|------------------|
| 20     | Base plate for support                                       | No. | 2 | 285.71  | 571.42           |
| 21     | Sundries   | LS  | 1 | 2000.00 | 2000.00          |
| A      | TOTAL MATERIAL COST IN RS.                                   |     |   |         | <b>62008.02</b>  |
| B      | Stock,storage and insurance (@3% on A)                       |     |   |         | <b>1860.24</b>   |
| C      | TOTAL RS.  |     |   |         | <b>63868.26</b>  |
| D      | T&P @ 2% of C  |     |   |         | <b>1277.37</b>   |
| E      | Contingency @ 3% of C  |     |   |         | <b>1916.05</b>   |
| F      | Transportation @ 7.5% of C                                   |     |   |         | <b>4790.12</b>   |
| G      | Erection charges @ 10% on others and 20% on PSC poles        |     |   |         | <b>7004.83</b>   |
| H      | TOTAL RS.  |     |   |         | <b>78856.62</b>  |
| J      | <b>Sub-Total</b>   |     |   |         | <b>529014.12</b> |
| K      | Total Estimated Cost in Figures                              |     |   |         | <b>529014.00</b> |
| EXCESS | <input type="text"/> LESS <input type="text"/> (Please Tick) |     |   |         | _____ %          |
|        | Quoted Amount in Figure                                      |     |   |         |                  |
|        | Quoted Amount in words                                       |     |   |         |                  |

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

**Signature of Tenderer with seal**

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

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

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

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