

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
JANAPATH, BHOINAGAR, BHUBANESWAR - 22
[Electrical Division]
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E-mail :- pmelectricalophwc2021@gmail.com, Website: www.ophwc.nic.in

PRICE BID FOR THE WORK UNDER SL. NO :-01 AS PER IFB

NAME OF THE WORK :- SHIFTING OF 11 KV LINE & LT LINE AND CONSTRUCTION OF NEW LINE AND S/S FOR POWER SUPPLY TO GHATAGAON BUS STAND IN THE DIST. OF KEONJHAR.

BID REF NO :- 46/PM/ELECT/OPHWC/2022-23

**NAME &
ADDRESS
OF THE
FIRM**

SCHEDULE OF WORKS

| Sl. No. | Description of work | Unit | Qty. | Estimated Cost in Rs. | |
|------------------|---|------|------|------------------------|---------------|
| | | | | RATE IN RS. 2018-19 | AMOUNT IN RS. |
| SCOPE [A] | Installation of 100 KVA ,11/0.4 KV DP mounted S/S-1 No. | | | | |
| SCOPE [B] | 11 KV 3Cx120 Sq. mm U/G XLPE cable from (proposed Tapping to MU to Cubicle to Sub-Station) including Raiser with 1 No. stand By=2x0.120+0.40 Km=0.280Km | | | | |
| SCOPE [C] | DP Metering Unit with 11 Mtr. Long 150x150 mm GI Joist Pole-1 no. | | | | |
| SCOPE [D] | Cubicle Room(12'X12'X10')-1 No. | | | | |
| SCOPE [E] | DP in proposed 11 KV Line with 11 Mtr. Long 150x150 mm GI Joist Pole-1 No. | | | | |
| SCOPE [F] | LT Line 3 Ph 5W with 3x50+1x35+1x16 sq. mm XLPE cable with 116x100 mm 11 Mtr. Long RS Joist Pole(Avg. span-35 Mtr.)=0.400 Km | | | | |
| 1 | 11 mtr GI Joist pole(150x150)mm(for 11 KV,34.6 Kg/Mtr). | No. | 4 | 28545.00 | 114180.00 |
| 2 | 11 mtr GI Joist pole(150x150)mm(for LT Line,30.6 Kg/Mtr) | No. | 11 | 21879.00 | 240669.00 |
| 3 | 11 KV Pin Insulator polymer | No. | 9 | 200.00 | 1800.00 |
| 4 | 11 KV T&C Hardware (45KN) | set | 12 | 130.00 | 1560.00 |
| 5 | Disc insulator(T&C)45 KN | No | 12 | 860.00 | 10320.00 |
| 6 | HT stay set complete | Pair | 5 | 1050.00 | 5250.00 |
| 7 | HT Stay Insulator | No. | 5 | 50.00 | 250.00 |
| 8 | HT stay clamp | Pair | 5 | 125.00 | 625.00 |
| 9 | 7/10 SWG Stay wire | Kg | 50 | 75.00 | 3750.00 |

| | | | | | |
|----------|--|------|------|----------|------------------|
| 10 | Earthing of support coil type | No | 15 | 166.00 | 2490.00 |
| 11 | Anticlimbing device made of GI barbed wire | Kg | 8 | 80.00 | 640.00 |
| 12 | 11 KV 55 Sq. mm Insulated Conductor(Unarmoured) | Km | 0.04 | 75816.00 | 3032.64 |
| 13 | 100x50x6 mm MS Channel | Kg | 160 | 65.00 | 10400.00 |
| 14 | 75x40x6 mm MS Channel | Kg | 80 | 65.00 | 5200.00 |
| 15 | 50x50x6 mm MS Angle | Kg | 60 | 65.00 | 3900.00 |
| 16 | PG clamp for 55 sq. mm AAA Conductor | No | 9 | 480.00 | 4320.00 |
| 17 | 3x50+1x35+1x16 sq. mm LT AB Cable | Mtr | 440 | 140.00 | 61600.00 |
| 18 | LT stay set complete | No. | 5 | 520.00 | 2600.00 |
| 19 | 7/12 GI Stay wire | Kg | 50 | 75.00 | 3750.00 |
| 20 | Clamp for LT stay | Pair | 5 | 110.00 | 550.00 |
| 21 | LT Stay Insulator | No. | 5 | 30.00 | 150.00 |
| 22 | Pole clamp for eye hook | Pair | 11 | 200.00 | 2200.00 |
| 23 | Dead end Clamp | No. | 7 | 65.00 | 455.00 |
| 24 | Suspension clamp | No | 8 | 340.00 | 2720.00 |
| 25 | Piercing connector | No | 9 | 80.00 | 720.00 |
| 26 | Neutral connector | No | 3 | 40.00 | 120.00 |
| 27 | GI nut,bolt & washers of different sizes | Kg | 25 | 78.00 | 1950.00 |
| 28 | Red Oxide paint | Ltr | 5 | 150.00 | 750.00 |
| 29 | All. Paint | Ltr | 6 | 200.00 | 1200.00 |
| 30 | Black Paint | Ltr | 3 | 220.00 | 660.00 |
| 31 | Material cost for Concreting of stay / stud 1.65 Mtrx 0.3Mtrx0.3 mtr= 0.1485 cum(pcc 1:2:4) | No | 10 | 834.00 | 8340.00 |
| 32 | Material cost for Concreting of RS Joist Pole 1.0 Mtrx 0.5Mtrx0.5 mtr= 0.45 cum(pcc 1:2:4) | No | 15 | 2040.00 | 30600.00 |
| 33 | Sundries for survey, tree cutting , small size nut & bolt with washer, Allm. Binding tape, Danger Board etc. | Ls | 0.6 | 3000.00 | 1800.00 |
| 34 | TOTAL MATERIAL COST | | | | 528551.64 |
| 35 | Escalation @6%for 2019-20 | | | | 560264.74 |
| 36 | Escalation @6%for 2020-21 | | | | 593880.62 |
| 37 | Escalation @6%for 2021-22 | | | | 629513.46 |
| A | Escalation @6%for 2022-23 | | | | 667284.27 |
| B | Stock, Storage & Insurance @ 3% of A | | | | 20018.53 |
| C | Sub Total (C=A+B) | | | | 687302.80 |
| D | Contingency @3% of C | | | | 20619.08 |
| E | T & P 2% of C | | | | 13746.06 |
| F | Transportation @ 7.5% of C | | | | 51547.71 |

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|----------------|---|------|------|-----------|------------------|
| G | Erection Charges for PSC Pole @ 20% | | | | 0.00 |
| H | Erection Charges of DTR and Joist Poles @ 5% | | | | 23071.42 |
| I | Erection Charges of other @ 10% | | | | 22587.44 |
| J | Sub Total | | | | 818874.51 |
| PART-II | SUB-STATION PART | | | | |
| 1 | 11 mtr GI Joist pole(150x150)mm | No. | 2 | 28545.00 | 57090.00 |
| 2 | Pressure Channel 100x50x6mm MS channel each 2.8 mtr long 2 Nos. (9.2 K.g per mtr) | Kg | 55 | 65.00 | 3575 |
| 3 | AB switch & HG Fuse,Mounting GI Channel (75x40x6)-2.8mtr long 2 nos(4.5 k.g per mtr) | Kg | 82 | 65.00 | 5330 |
| 4 | Angel for mounting LT distribution Box - 50x50x6 mm -2.5.0 mtrs each Long 2 Nos. (4.5 Kg per mtr) | Kg | 22.5 | 65.00 | 1462.5 |
| 5 | 3Pole 11KV 200A AB switch | set | 1 | 7350.00 | 7350 |
| 6 | 3Pole 11KV 200A HG Fuse | set | 1 | 6120.00 | 6120 |
| 7 | 11 KV LA12 KV-10 KA | No | 3 | 3550.00 | 10650 |
| 8 | HT stay set complete | Set | 2 | 1050.00 | 2100 |
| 9 | HT Stay clamp | Pair | 2 | 125.00 | 250 |
| 10 | HT Stay Insulator | No. | 2 | 50.00 | 100 |
| 11 | 7/10 SWG Stay wire | Kg | 20 | 75.00 | 1500 |
| 12 | 40mm dia GI pipe Earthing device 3 Mtrs. Long | No. | 5 | 1050.00 | 5250 |
| 13 | No. 6 GI wire | Kg | 30 | 75.00 | 2250 |
| 14 | 50X6 mm GI Flat for neutral earthing | Kg | 45 | 75.00 | 3375 |
| 15 | 11 KV 55 sq. mm AAA Insulated conductor | Km | 0.04 | 75816.00 | 3032.64 |
| 16 | Red Oxide paint | Ltr | 2 | 150.00 | 300 |
| 17 | All. Paint | Ltr | 3 | 200.00 | 600 |
| 18 | Black Paint | Ltr | 1 | 220.00 | 220 |
| 19 | MS Nut, Bolt & washer | Kg | 30 | 78.00 | 2340 |
| 20 | 100 KVA 11/0.4 KV Transformer(BIS energy Level-II) | No. | 1 | 117000.00 | 117000 |
| 21 | LT distribution Box including kit-kat fuse with MCCB for 100 KVA Transformer | No. | 1 | 24419.00 | 24419 |
| 22 | 120 sq. mm 3.5 core PVC Cable(Unarmoured) | Mtr. | 15 | 418.00 | 6270 |
| 23 | All. Cable socket of different sizes | No | 21 | 52.00 | 1092 |
| 24 | Material cost for concreting of stay 1.65 Mtr.x0.3 Mtr.x0.3 mtr.=0.1485cum(PCC 1:2:4) | No. | 2 | 834.00 | 1668 |
| 25 | Material cost for concreting of GI Joist Pole 1.8 Mtr.x0.5 Mtr.x0.5 mtr.=0.45cum(PCC 1:2:4) | No. | 2 | 2040.00 | 4080 |

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|-----------------|---|------|-----|-----------------|------------------|
| 26 | Boundary wall with grill gate , metal & sand. | Ls | 1 | 50000.00 | 50000 |
| 27 | Earthing materials | Ls | 5 | 1890.00 | 9450 |
| 28 | Sundries for survey, PVC tape, ampire tape, Danger Board, small size nut & bolt,preparation of drawing cable socket etc.. | LS | 1 | 2000.00 | 2000 |
| 29 | TOTAL MATERIAL COST | | | | 328874.14 |
| 30 | Escalation @6%for 2019-20 | | | | 348606.59 |
| 31 | Escalation @6%for 2020-21 | | | | 369522.98 |
| 32 | Escalation @6%for 2021-22 | | | | 391694.36 |
| A | Escalation @6%for 2022-23 | | | | 415196.02 |
| B | Stock, Storage & Insurance @ 3% of A | | | | 12455.88 |
| C | Sub Total (C=A+B) | | | | 427651.91 |
| D | Contingency @3% of C | | | | 12829.56 |
| E | T & P 2% of C | | | | 8553.04 |
| F | Transportation @ 7.5% of C | | | | 32073.89 |
| G | Erection Charges for PSC Pole @ 20% | | | | 0.00 |
| H | Erection Charges of DTR and Joist Poles @ 5% | | | | 11318.91 |
| I | Erection Charges of other @ 10% | | | | 20127.38 |
| J | Sub Total | | | | 512554.68 |
| PART-III | SERVICE CONNECTION ESTIMATE WITH CUBICLE METERING | | | | |
| 1 | 11 KV 3 core 120 sq. mm XLPE cable(armoured) | Mtr. | 280 | 659.00 | 184520 |
| 2 | Heat shrinkable jointing kit for 11 KV 3 core 120 sq. mm XLPE cable(Indoor type) | No | 2 | 8505.00 | 17010 |
| 3 | Heat shrinkable jointing kit for 11 KV 3 core 120 sq. mm XLPE cable(outdoor type) | No | 4 | 11756.00 | 47024 |
| 4 | Cable laying in the cable trench with removable cover | Mtr. | 120 | 514.00 | 61680 |
| 5 | 16 mm MS Bolt & Nuts with washer | Kg | 15 | 78.00 | 1170 |
| 6 | All. Cable Lug of Different sizes | No | 12 | 52.00 | 624 |
| 7 | HDPE Pipe 200 mm dia 8 mm thickness for raising of 11 KV XLPE Cable on DP (10 Mtr. as raiser on each DP on both sides(40 Mtr.Total) | Mtr | 40 | 1785.00 | 71400 |
| 8 | Cubicle Room(12'x12'x10') | Ls | 1 | 60000.00 | 60000 |
| 9 | 10 Core 2.5 sq. mm cu control cable(Unarmoured) | Mtr. | 10 | 330.00 | 3300 |
| 10 | 11 KV Lightning Arrester 12 KV-10 KA | No | 3 | 3550.00 | 10650 |

| | | | | | |
|--------|--|------|----|---------|---------------------|
| 11 | 40mm dia GI pipe Earthing device 3 Mtrs. Long | No. | 4 | 1050.00 | 4200 |
| 12 | 25x6 mm GI Flat | Mtr. | 60 | 75.00 | 4500 |
| 13 | Earthing with materials | No | 4 | 1890.00 | 7560 |
| 14 | Sundries | No | 1 | 2000.00 | 2000 |
| 15 | TOTAL MATERIAL COST | | | | 475638.00 |
| 16 | Escalation @6%for 2019-20 | | | | 504176.28 |
| 17 | Escalation @6%for 2020-21 | | | | 534426.86 |
| 18 | Escalation @6%for 2021-22 | | | | 566492.47 |
| A | Escalation @6%for 2022-23 | | | | 600482.02 |
| B | Stock, Storage & Insurance @ 3% of A | | | | 18014.46 |
| C | Sub Total (C=A+B) | | | | 618496.48 |
| D | Contingency @3% of C | | | | 18554.89 |
| E | T & P 2% of C | | | | 12369.93 |
| F | Transportation @ 7.5% of C | | | | 46387.24 |
| G | Erection Charges for PSC Pole @ 20% | | | | 0.00 |
| H | Erection Charges of DTR and Joist Poles @ 5% | | | | 0.00 |
| I | Erection Charges of other @ 10% | | | | 61849.65 |
| J | Sub Total | | | | 757658.18 |
| | Total Rs. | | | | 20,89,087.37 |
| | Cess @ 1% | | | | 20,890.87 |
| | Total Estimated Cost | | | | 21,09,978.25 |
| | Total Estimated Cost in Figures | | | | 21,09,978.00 |
| EXCESS | <input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick) | | | | _____ % |
| | Quoted Amount in Figure | | | | |
| | Quoted Amount in word | | | | |

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

Signature of Tenderer with seal

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

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