NOTICE INVITING TENDER

TENDER No.: BHI/PI(S)/665/1063

FOR

ERECTION, TESTING AND COMMISSIONING OF ELECTRICAL EQUIPMENTS IN LTSS BUILDINGS (LTSS-2, LTSS-3 & LTSS-4) WITH SUPPLY OF ACCESSORIES FOR “AUGMENTATION OF RAW MATERIAL RECEIPT AND HANDLING FACILITIES FOR NEW OHP, PART-B (PACKAGE NO.-061) FOR BHILAI STEEL PLANT AT CHHATTISGARH

VOLUME – II

(Price Bid)

ENGINEERING PROJECTS (INDIA) LIMITED
(A GOVT. OF INDIA ENTERPRISE)

B- 252, Street No.-5,
Smriti Nagar, Bhilai,
Chhattisgarh- 490020
epibhilai@gmail.com


Erection, Testing and commissioning of Electrical panels/equipments in LTSS buildings, control rooms with supply of suitable accessories including rubber mat of suitable rating for all panels and as per specifications & GA Drawing (Zinc passivated nut bolts & washers with all accessories shall be used) which includes as below:

- **i)** Dry Type Transformer 6.6/0.433KV, 2000 KVA (2500X2900X2700) No. 4 2 0 6
- **ii)** Dry Type Transformer 11/0.433KV, 2000 KVA (2500X2900X2700) No. 0 0 2 2
- **iii)** Supply and termination of 11KV (UE) cable end connection No. 16 8 8 32
- **iv)** VCB 6.6 KV 1250 Amp. without protection (1800X800X2100) No. 4 2 0 6
- **v)** VCB 11 KV 1250 Amp. without protection (1600X800X1800) No. 0 0 2 2
- **vi)** Supply and termination of 11KV (UE) cable end connection No. 16 8 8 32
- **vii)** 415V PCC 2 A , PCC 3, PCC 4 size 10800 X 1600 x 2375 No. 1 1 1 3
- **viii)** 415V PCC 2B size 11600 X 1600 X 2375 No. 1 0 0 1
- **ix)** 415V 4000Amp segregated type Al-Busduct with 8 Nos. Cu/Al Flexible at both ends(Transformer & PCC) with all accessories and as per specification M 49 22 24 95
- **x)** 415V Conventional MCC 2, MCC 3, MCC 4 size 4800 x 500 x 2375 No. 1 1 1 3
- **xi)** 415V PDB 2B1 size 5600 x 500 x 2175 No. 1 0 0 1
- **xii)** 415V PDB 2B2 size 9600 x 500 x 2176 No. 1 0 0 1
- **xiii)** 415V PDB-3 size 5600 x 500 x 2175 No. 0 1 0 1
- **xiv)** 415V PDB-4 size 9600 x 500 x 2175 No. 0 0 1 1
- **xv)** MLDB 2A size 3200 x 500 x 2175 No. 1 0 0 1
- **xvi)** MLDB 2B size 4000 x 500 x 2175 No. 1 0 0 1
- **xvii)** MLDB-3 size 4000 x 500 x 2175 No. 0 1 0 1
- **xviii)** MLDB-4 size 4700 x 500 x 2175 No. 0 0 1 1
- **xix)** EMLDB 2 size 4000 x 500 x 2175 No. 1 0 0 1
- **xx)** EMLDB-3 size 3200 x 500 x 2175 No. 0 1 0 1
- **xxi)** EMLDB-4 size 3800 x 500 x 2175 No. 0 0 1 1
- **xxii)** LTG Transformer 2A -1, 2 A -2, 2B -1 and 2B -2, 3A 3B, 4A, 4B: Size 1600 X 1600 X1400 No. 4 2 2 8
- **xxiii)** Brake panel 600 X 300 X 900 (Detail as per Annexure II) No. 21 0 0 21
- **xxiv)** Brake panel 600 X 300 X 1000 (Detail as per Annexure II) No. 0 10 12 22
- **xxv)** LDB size 1000 x 500 x 1200 No. 1 1 1 3
- **xxvi)** ELDB size 500 x 500 x 1200 No. 1 0 0 1
- **xxvii)** ELDB size 1000 x 500 x 1200 No. 0 1 1 2
- **xxviii)** SLDB and ESLDB No. 4 2 2 8
<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Description</th>
<th>Unit</th>
<th>LTSS-2</th>
<th>LTSS-3</th>
<th>LTSS-4</th>
<th>Total Qty</th>
<th>Unit Rate (Rs.)</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Erection of Electrical panels in control room with supply of suitable Zinc passivated nut bolts &amp; washers with all accessories and as per specification which includes Power/Control cable termination:</td>
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<td>2i)</td>
<td>415V IMCC-2A Size 15000 X 1200 x 2200</td>
<td>No.</td>
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<td>415V IMCC-2B Size 12800 X 1200 x 2200</td>
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<td>415V IMCC-3 Size 10800 X 1200 x 2275</td>
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<td>2iv)</td>
<td>415V IMCC-4 Size 10800 X 1200 x 2275</td>
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<td>2v)</td>
<td>415V MCP (LT Soft Starter) size 1200 X 1000 X 2200 (Detail as per Annexure-II)</td>
<td>No.</td>
<td>7</td>
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<td>2vi)</td>
<td>415V MCP (LT Soft Starter) size 1200 X 1200 X 2000 (Z13-C1, Z13-C2, Z12-C1, Z12-C2)</td>
<td>No.</td>
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<td>4</td>
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<tr>
<td>2vii)</td>
<td>Addressable Panel for PCS and BSS -GCP -A, size 800 X 500 X 2200</td>
<td>No.</td>
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<td>0</td>
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<td>Addressable Panel for PCS and BSS -GCP -A, size 600 X 500 X 1800</td>
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<td>2ix)</td>
<td>UPS - Size 1600 x 750 x 2000</td>
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<td>0</td>
<td>0</td>
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<td>2x)</td>
<td>UPS - Size 2000 x 750 x 1800</td>
<td>No.</td>
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<td>2xi)</td>
<td>UPS distribution board - Size 800 x 750 x 2100</td>
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<td>UPS distribution board - Size 1200 x 800 x 1800</td>
<td>No.</td>
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<td>2xiii)</td>
<td>UPS Battery Bank</td>
<td>No.</td>
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<td>1</td>
<td>1</td>
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<td>2xiv)</td>
<td>Relay Panel size 1200 x 800 x 2200</td>
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<td>0</td>
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<td>2xv)</td>
<td>Relay Panel size 600 x 300 x 250</td>
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<td>2xvi)</td>
<td>BWS Panel size 1000 X 800 X 1500</td>
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<td>0</td>
<td>1</td>
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<td>2xvii)</td>
<td>BWS Panel size 760 X 600 X 450</td>
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<td>3</td>
<td>Erection, testing and commissioning of Lighting Fixtures in all respect for LTSS -1 with 3corex 2.5 sq mm armoured cable from SLDB/ESLDB to light fittings with suitable accessories of JBs, clamps etc(Flexible cable/wire in flexible conduit from Lighting JB to Light fittings &amp; JB shall be in vendor's scope) as per approved drawing &amp; specification</td>
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<td>3i)</td>
<td>2x36 w decorative recess type tube light fittings with mirror optics, lamps &amp; accessories</td>
<td>No.</td>
<td>180</td>
<td>107</td>
<td>57</td>
<td>344</td>
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<tr>
<td>3ii)</td>
<td>1 x36 w tube light fittings wit lamp and accessories</td>
<td>No.</td>
<td>27</td>
<td>23</td>
<td>14</td>
<td>64</td>
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<tr>
<td>3iii)</td>
<td>70 W HSVV fitting, lamp and accessories</td>
<td>No.</td>
<td>10</td>
<td>142</td>
<td>83</td>
<td>235</td>
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<td>3iv)</td>
<td>Laying, clamping as per approved drawing/specification of 3C X 2.5 sq mm. armoured cable complete all accessories from SLDB/ESLDB to Light Fittings</td>
<td>M</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>1500</td>
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<td>4</td>
<td>Erection of following sizes cable trays which includes earthing strips with supports along the wall / ceiling/ floor/ structure including supply of welding electrodes, gas &amp; other consumables.</td>
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<tr>
<td>4i)</td>
<td>Ladder type 600 mm</td>
<td>M</td>
<td>1000</td>
<td>600</td>
<td>600</td>
<td>2200</td>
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<tr>
<td>4ii)</td>
<td>Ladder type 300 mm</td>
<td>M</td>
<td>200</td>
<td>150</td>
<td>150</td>
<td>500</td>
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<tr>
<td>4iii)</td>
<td>Perforated type 300 mm</td>
<td>M</td>
<td>200</td>
<td>150</td>
<td>150</td>
<td>500</td>
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<td></td>
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<tr>
<td>4iv)</td>
<td>Perforated type 150 mm</td>
<td>M</td>
<td>100</td>
<td>80</td>
<td>100</td>
<td>280</td>
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<tr>
<td>Sl.No.</td>
<td>Description</td>
<td>Unit</td>
<td>LTSS-2</td>
<td>LTSS-3</td>
<td>LTSS-4</td>
<td>Total Qty</td>
<td>Unit Rate</td>
<td>Amount (Rs.)</td>
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<td>in figure</td>
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<td>5</td>
<td>Supply, Fabrication, painting, erection of supporting structure (MS angle, Channels, Flats etc as per requirement) for cable trays/electrical panels and including anchoring &amp; fixing.</td>
<td>Ton</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>13</td>
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<td>6</td>
<td>Laying, clamping of Earthing Strips of following sizes on Surface. Equipments/panels, periphery of building as per specification with supply of all required consumables and excavation &amp; back filling.</td>
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<td></td>
<td>i) 25 x 3 mm GI Flat</td>
<td>M</td>
<td>200</td>
<td>150</td>
<td>200</td>
<td>550</td>
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<tr>
<td></td>
<td>ii) 50 x 6 mm GI Flat</td>
<td>M</td>
<td>1000</td>
<td>800</td>
<td>800</td>
<td>2600</td>
<td></td>
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<tr>
<td></td>
<td>iii) 75 x 5 mm GI Flat</td>
<td>M</td>
<td>275</td>
<td>200</td>
<td>200</td>
<td>675</td>
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<td>7</td>
<td>Preparation of Earthing Pit including excavation, backfilling, making earth chamber with cover, marking etc, supply of electrodes / plate, funnel, Charcoal and Salt complete as per approved drawing / specification.</td>
<td>No.</td>
<td>16</td>
<td>14</td>
<td>14</td>
<td>44</td>
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<tr>
<td>8</td>
<td>Preparation of Electronics Earthing Pit including excavation, backfilling, making earth chamber with cover, marking etc, supply of electrodes / Cu plate, funnel, Charcoal and Salt complete as per approved drawing / specification.</td>
<td>No.</td>
<td>2</td>
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<td>6</td>
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<td>9</td>
<td>Laying, testing and commissioning of following size LT power and control cable on cable tray, dressing, clamping with supply and erection of MS painted clamp (25X3mm) at 1 Mtr distance in horizontal and 0.5 Mtr. distance in vertical and duly bolted with supply of zinc crom nut-bolts &amp; washer, supply and erection of Al engraved tag for tagging at each 30 Mtr. and each bend.</td>
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<td></td>
<td>i) 3.5CX240mm sq. aluminium XLPE cable</td>
<td>M</td>
<td>400</td>
<td>300</td>
<td>300</td>
<td>1000</td>
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<td></td>
<td>ii) 3.5CX185mm sq. aluminium XLPE cable</td>
<td>M</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>450</td>
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<td>iii) 3.5CX150mm sq. aluminium XLPE cable</td>
<td>M</td>
<td>1200</td>
<td>1000</td>
<td>1000</td>
<td>3200</td>
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<td>iv) 3.5CX120/95mm sq. aluminium XLPE cable</td>
<td>M</td>
<td>50</td>
<td>50</td>
<td>60</td>
<td>160</td>
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<td>v) 3.5CX70mm sq. aluminium XLPE cable</td>
<td>M</td>
<td>100</td>
<td>60</td>
<td>60</td>
<td>220</td>
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<td>vi) 3.5/4C x 50 / 4C x 35mm sq. aluminium XLPE cable</td>
<td>M</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>240</td>
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<td>vii) 4C x 25mm sq. aluminium XLPE cable</td>
<td>M</td>
<td>300</td>
<td>200</td>
<td>200</td>
<td>700</td>
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<td></td>
<td>viii) 4C x 16mm sq. aluminium XLPE cable</td>
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<td>70</td>
<td>80</td>
<td>50</td>
<td>200</td>
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<td>ix) 4C x 10/8 mm sq. aluminium XLPE cable</td>
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<td>250</td>
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<td>200</td>
<td>650</td>
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<td>A. Power Cable</td>
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<tr>
<td>i) 19CX2.5mm sq. copper (Stranded) PVC cable</td>
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<td>300</td>
<td>200</td>
<td>200</td>
<td>700</td>
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<td>ii) 14CX2.5mm sq. copper (Stranded) PVC cable</td>
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<td>150</td>
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<td>450</td>
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<td>iii) 7CX2.5mm sq. copper (Stranded) PVC cable</td>
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<td>100</td>
<td>100</td>
<td>100</td>
<td>300</td>
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<td>iv) 5CX2.5mm sq. copper (Stranded) PVC cable</td>
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<td>100</td>
<td>100</td>
<td>300</td>
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<tr>
<td>v) 3CX2.5mm sq. copper (Stranded) PVC cable</td>
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<td>500</td>
<td>400</td>
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<td>1300</td>
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<tr>
<td>B. Control cable</td>
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<td>Sl.No.</td>
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<td>LTSS-2 Qty</td>
<td>LTSS-3 Qty</td>
<td>LTSS-4 Qty</td>
<td>Total Qty</td>
<td>Unit Rate (Rs.)</td>
<td>Amount (Rs.)</td>
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<td>10</td>
<td>**Termination of LT power and control cable for VCB, Transformer, PCC, MCP, **</td>
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<td></td>
<td><strong>R 1/O PANEL, UPS, PDB, MLDB, EMLDB, Lighting Transformer, Battery Bank,</strong></td>
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<td></td>
<td><strong>Distribution Panel etc., including supply of Al/Cu luggs, suitable zinc</strong></td>
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<td></td>
<td><strong>passivated nut-bolts with washers/as per spec. with suitable double</strong></td>
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<td></td>
<td><strong>compression gland as per approved make of BSP of following size cable</strong></td>
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<tr>
<td>A.</td>
<td><strong>Power Cable</strong></td>
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<td>i)</td>
<td>3.5CX240mm sq. aluminium XLPE cable</td>
<td>Nos.</td>
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<td>ii)</td>
<td>3.5CX185mm sq. aluminium XLPE cable</td>
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<td>iii)</td>
<td>3.5CX150mm sq. aluminium XLPE cable</td>
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<td>iv)</td>
<td>3.5CX120/95mm sq. aluminium XLPE cable</td>
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<td>v)</td>
<td>3.5 x 70mm sq. aluminium XLPE cable</td>
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<td>3CX2.5mm sq. copper (Stranded) PVC cable</td>
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<td><strong>Supply and end termination of 11KV (UE) cable end connection for 6.6KV</strong></td>
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<td><strong>Z4BC1, Z5BC1, Z6BC1, Z8-C1, Z8-C2, COMP. HOUSE MOTOR1 TO 5 )</strong></td>
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Total =

in words

Signature with stamp
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