TENDER DOCUMENT

NIT No. DLI/C&E/WI-665/521

FOR

Tender for “Design, Engineering, Manufacturing at works, Supply of Main Lighting Distribution Board & Emergency Main Lighting Distribution Board 3Ph.-N 415V (15Nos.) for “Augmentation of Raw Material Handling Receipt and Handling facilities with new OHP Part- B (Package- 061) of Bhilai Steel Plant, (SAIL)”

VOLUME – 2C
## Contents- (Volume-2)

NIT No. DLI/C&E/WI-665/521

<table>
<thead>
<tr>
<th>S.No,</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Volume-2A  (General Specifications)</td>
</tr>
<tr>
<td></td>
<td>- Introduction</td>
</tr>
<tr>
<td></td>
<td>- General Requirements  (Project Synopsis, GTR, PG, Inspection &amp; Testing, Painting etc.)</td>
</tr>
<tr>
<td></td>
<td>- List of Approved Vendors</td>
</tr>
<tr>
<td></td>
<td>- List of Preferred makes</td>
</tr>
<tr>
<td>2</td>
<td>Volume-2B  (Technical Specs.)</td>
</tr>
<tr>
<td></td>
<td>- Scope of work</td>
</tr>
<tr>
<td></td>
<td>- Technical Spec. Chapter 4</td>
</tr>
<tr>
<td></td>
<td>- GS -9 Painting</td>
</tr>
<tr>
<td>3</td>
<td>Volume-2C  (Tender Drawings)</td>
</tr>
</tbody>
</table>
Bhilai Steel Plant

Augmentation of Raw Material Receipt & Handling Facilities with New OHP, Part-B

(Pkg-61) at Bhilai, Chhattisgarh

Document for

Single Line Diagram for MLDB's & EMLDB's

Notes:
1. LED FOR ON/OFF TRIP SHALL BE PROVIDED FOR EACH IIC/OIC/BIC.
2. ALL MCCB SHALL BE MICROPROCESSOR BASED WITH D/L/S/C/E/F PROTECTION.
3. SEPARATE TIMER SHALL BE PROVIDED TO EACH AREA LIGHTING & PERIPHERY LIGHTING AS PER THE REQUIREMENT.
4. LOAD CONVEYOR & LH LIGHTING SHALL BE SWITCHED ON/OFF BY PLC.
5. AUTO CHANGE OVER INCOMER SHALL BE THROUGH CONTACTOR-LOGIC WITH SUITABLE TIMER.
6. VOLTMETER & AMMETER SHALL BE 144 SQ. MM SHALL HAVE 7 POSITION & 4 POSITION RESPECTIVELY.
7. SEPARATE TIMER SHALL BE PROVIDED FOR EACH AREA LIGHTING CIRCUIT.
8. SINGLE FRONT METAL CLAD SHALL BE COMPARTMENTALIZED INDOOR TYPE.
9. DEGREE OF PROTECTION - 1P52 FOR INDOOR INSTALLATION.
10. ALL OTHER SPEC. AS PER TS/GTS
11. INCOMING & OUTGOING MCCB WILL BE 3 POLE
12. RATING OF FEEDER SHALL BE AS PER FINAL ENGINEERING.
13. RATING OF TRANSFORMER FOR CONTROL SUPPLY SHALL BE AS PER REQUIREMENT.
INCOMING—FROM PCC-2A

VC-1

415 / 415 V 250 KVA DRY TYPE TRANSFORMER

MAXIMUM DEMAND
162.425 KW

415V, 3Φ-N, 50Hz, 630A, 50KA FOR SEC - I

415V, 3Φ-N, 50Hz, 630A, 50KA FOR SEC - II

125 A MCCB
200 A MCCB
125 A MCCB
200 A MCCB
320 A MCCB
320 A MCCB
630 A MCCB
630 A MCCB
630 A MCCB
630 A MCCB
24.501 KW

REMARKS:
- Single line diagram for MLDB 2A
- Document includes various electrical components and connections.
MAXIMUM DEMAND
52.026 KW

415V, 3Ø, 50Hz, 250A, 50ka FOR SEC - I

415V, 3Ø, 50Hz, 250A, 50ka FOR SEC - II
MAXIMUM DEMAND
26.796 KW

INCOMING FROM MLDB-1A

INCOMING FROM MLDB-1B

415V, 3Ph, 50Hz, 125A, 50ka FOR SEC - I

415V, 3Ph, 50Hz, 125A, 50ka FOR SEC - II

Z-SERIES

EMLDB - 1A

MECON LIMITED