TENDER DOCUMENT

NIT No.: DLI/C&E/WI-675/304

FOR

Tender for ‘Design, Engineering, Supply, installation, testing and commissioning of 16.5 TR PACKAGE AIR CONDITIONING (PAC) SYSTEM AND ASSOCIATED WORKS OF LTSS-1’ for the project of “Augmentation of Fuel and Flux crushing facilities (Package- 064) of Bhilai Steel Plant, (SAIL)”.

VOLUME – 2C

TENDER DRAWINGS

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## LIST OF DRAWINGS

<table>
<thead>
<tr>
<th>S.No</th>
<th>Drawing Number</th>
<th>Drawing Description</th>
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<tbody>
<tr>
<td>1</td>
<td>BSP-EPI-02-064-02-010-29-DE-03057 (2 Sheets, Rev. 4)</td>
<td>Electrical Layout of LT. Sub Station LTSS-1 for CHP</td>
</tr>
</tbody>
</table>
NOTE
1. Double door for AC area shall be provided.
2. Average weight per panel will be considered as 700 kg/m² for designing civil/structural design
3. Separate deg. for welding power socket, 240V sockets & Lighting shall be submitted.
4. Fixed windows for ventilation in ventilation room with double glass shall be provided for light during day-time.
5. Safety items like hand gloves, shock treatment sheet, discharge rod, rubber mats (if required voltage) at front and rear of all panels, dangerous/valve boxes, fire extinguishers, fire sand buckets, etc. shall be clearly specified as a single line diagram of LT/CT/TTSS, MCC, PDCs, CB, IBDs, SSBDs, key boxes etc., keys and key boxes, etc.
6. All electric room shall be constructed with heat proof material at the roof. It is exposed to sunlight.
7. Electrical room shall be considered fire hazardous.
8. Sufficient quantity of the fire extinguisher at various locations will be provided as part of safety equipment inside sub-station.
9. Ignition, microprocessor based, addressable type automatic fire detection and alarm systems for all MCC rooms, Electrical premises, Control room, etc. shall be provided as per TS/GTS.
10. Breaker handling facilities will be provided.
11. Two nos. of 4 legged wooden stools of height 1m and 4m each will be provided.
12. Portable emergency lights will also be provided.
13. Plate ceiling shall be provided for AC room having IMCC/IMP/UPS/BATTERY BANK.
14. Cable supporting structure in cable vault shall be provided as per requirement in either from floor or ceiling.
15. Standard size of cable tray shall be used in 300x450 & 400.
16. Slotted double door with lock gate has been provided for power transformer room.
17. All opening / cutout will be closed or covered with Chequered plate.
18. Present cloth / chequered plate will be provided to cover the cable trench.
19. Non. & size of cable tray will be provided as per requirements.
20. Panel dimensions are tentative.
21. Drinking Water required at various location shall be met by continuous pumping arrangement as per TS/GTS.
22. Insulating the panels has been provided as per the provisions and may differ due to space constraint.
23. No wall between the dry type transformer has been provided due to space constraint.
24. Mats of the electrical panels shall be fully water proof and moisture proof.
25. PBD, PBD, BD, BDG are having front centre only.
26. Cooling tower required for water cooled package air conditioning (PAAC) shall be installed on the roof of LTSS building.
27. Bottom of the bays in ground floor cable shall be 1.5 Meters.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Area</th>
<th>AMBIENT TEMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>ELECTRICAL ROOM</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>LT SUB - STATION / SWITCH GEAR ROOM</td>
<td>+ 45 Deg C</td>
</tr>
<tr>
<td>2</td>
<td>MCC ROOM (HOUSING INTELLIGENT MUX, VFD PANELS, TR CONTROLLERS, RIO etc.)</td>
<td>+ 45 Deg C</td>
</tr>
<tr>
<td>3</td>
<td>CABLE CELLAR</td>
<td>+ 45 Deg C</td>
</tr>
<tr>
<td>B</td>
<td>CONTROL ROOM</td>
<td>+ 240 Deg C</td>
</tr>
<tr>
<td>C</td>
<td>CONTROL ROOM - AIR CONDITIONED</td>
<td></td>
</tr>
</tbody>
</table>