TENDER DOCUMENT

TENDER NO.: BHI/PI(S)/675/1055

FOR

Tender for Erection, Testing & Commissioning of “Electrical Equipment’s with supply of Accessories in LTSS-1 & 5” for the project of “Augmentation of Fuel and Flux Crushing Facilities (Package No. 064) of Bhilai Steel Plant (SAIL)”

VOLUME – IV

(Drawings LTSS-1 & 5)

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

B-32, Phase - II,
Surya Vihar, Bhilai
(Chhattisgarh) – 490020
Mob. No. +919425296110,
E-mail Id: epibhilai064@rediffmail.com
NOTE
1. Double door for AC area shall be provided.
2. Average weight per panel will considered at 300 Kg m2 for designing civil / structural design.
3. Separate d.c. for welding power socket, 400V sockets & Lighting shall be submitted.
4. Fixed windows for ventilation in the rooms with double glass shall be provided for light during day-time.
5. Safety items like hand gloves, stock treatment, change-room, rubber mats (safety voltage) in front and rear of all panels, storage/inspection boards, fire extinguishers, fire main buckets, usually framed As built Single Line Diagram of LT CC/LT SS, MCC, PCC, MLD, LL, LS, SSL, keys and key boxes etc., keys and key boxes, etc.
6. All electrical room shall be constructed with heat proof material at the roof if it is exposed to sunlight.
7. Electrical room shall be considered fire hazards.
8. Sufficient quantity of the fire extinguisher at various location will be provided as part of safety equipment inside sub-station.
9. Intelligent, microprocessor based, addressable type automatic fire detection and alarm system for all MCC room/Electrical panel.
10. Cable cell, Dispatcher/Control room using smoke detectors, heat detectors with wiring netting etc. shall be provided as per TS/GTS.
11. Breaker handling facilities will be provided.
12. Two no of 4 legged wooden stools of height 1m and 4m each will be provided.
13. Portable emergency lights will also be provided.
14. False ceiling shall be provided for AC mezzanine IMCC/IMC/IMB/CAP/BATTERY BANK.
15. Cable supporting structure in cable cell shall be provided as per requirement is either from floor or ceiling.
16. Standard size of cable tray shall be in 300x450 & 600.
17. Hinged double door with wicket gate has been provided for power transformer room.
18. All opening / cutout will be Closed or covered with Chequered plate.
19. Present exit / chequered plate will be provided to cover the cable trench.
20. Nos. & size of cable tray will be provided as per requirements.
21. Panel dimensions are tentative.
22. Draining Water required at various location shall be met by continuous pumping arrangement as per TS/GTS.
23. Spacing between the panels has been provided as per the requirements and may differ due to space constraint.
24. No wall between the dry type transformers has been provided due to space constraint.
25. Results of the electrical preservatives shall be fully watertight and resistant proof.
26. PDB, MLD, DAD, etc. having four meters only.
27. Coating tower required for water cooled package air conditioning (PAC) shall be install on the roof of LT SS building.
28. Bottom of the basis in ground floor cable shall be 2.2 Meter.

<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>+ 45 Deg C</td>
</tr>
<tr>
<td>1</td>
<td>LT SUB - STATION / SWITCH GEAR ROOM</td>
<td>+ 45 Deg C</td>
</tr>
<tr>
<td></td>
<td>PRESSURIZED VENTILATION</td>
<td>+ 45 Deg C</td>
</tr>
<tr>
<td>2</td>
<td>MCC ROOM (HOUSING INTELLIGENT Mux, VFD PANELS, TR CONTROLLERS, RIR etc.)</td>
<td>+ 45 Deg C</td>
</tr>
<tr>
<td>3</td>
<td>CABLE CELLAR</td>
<td>+ 240 Deg C</td>
</tr>
<tr>
<td>B</td>
<td>CONTROL ROOM</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>CONTROL ROOMS - AIR CONDITIONED</td>
<td></td>
</tr>
</tbody>
</table>