

## Annexure-A

<b>2.00.00</b>	<p><b>CONSTRUCTION FACILITIES</b></p> <p>The following are also in the Bidder's scope of work:</p> <ol style="list-style-type: none"><li>1. Providing drinking and service water for Bidder's labour, staff and other personnel working for Bidder at the work site and in his staff/ labour colony. He shall install necessary bore wells with associated pumping or water tankers and treatment facilities to supply quality water as per standards.</li><li>2. Developing temporary staff colony and labour colony along with fencing etc. Land if required shall be arranged by the Bidder himself.</li></ol> <p>However space required for bidder's office, storage, pre assembly and fabrication areas shall be provided by owner free of charge within the plant premises.</p> <p>The area to be allocated to the Bidder shall be discussed &amp; finalized with the bidder after the award, keeping in view the availability of free space &amp; similar requirement of other agencies.</p> <ol style="list-style-type: none"><li>3. Providing all arrangements for distribution of construction power at various locations as per his requirements from the supply point of Owner.</li><li>4. Providing all arrangements for the supply of construction water including bore-wells, water tankers etc.</li><li>5. Providing temporary construction office, construction stores (open / covered), workshops, material / field testing laboratory, any other temporary buildings</li><li>6. Providing all construction equipment, labour and materials. The Bidder shall provide all the tools and tackles required for the work.</li><li>7. Development of the pre-assembly and storage yard with fencing, drainage, internal roads, boulder soling, etc.</li><li>8. Access roads to his work sites, offices, stores, preassembly / fabrication yard, etc. as required for providing approach/access for men, materials, equipment, cranes, traylor, construction/erection activities etc., what so ever are required by the bidder, shall be constructed and maintained by the bidder. Bidder shall provide permanent access to all facilities/structures from the nearby existing roads of the Owner. Roads shall be in concrete as per IRC standards, with minimum thickness of pavement (PQC) as 250mm (in M 35 grade) and DLC of 150 thick (in M 10 grade). Double lane road (width 12m having 7.5m wide pavement &amp; 2.25m wide shoulders on both sides) shall be provided.</li><li>9. Area lighting at the construction / erection site, pre-assembly and storage yard, office areas and labour / staff colony.</li><li>10. Providing all necessary fire-fighting devices / equipment / fire tender etc. required during the project execution stage. He shall maintain all such equipment / devices in proper working conditions throughout the period of work.</li></ol>
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	<p>7) Contractor shall provide Straight-through jointing kits for HT XLPE power cable, LT power and control cables, Cable termination kits for HT XLPE power cables, Welding receptacles, Trefoil cable clamps, Junction boxes.</p> <p>8) Contractor shall provide Galvanised steel pipes/HDPE/hume pipes/PVC pipes, Miscellaneous items like M.S sections etc as required,</p> <p>9) Contractor shall provide Fire proof cable penetration sealing system of Type-A and Type-B for cable galleries, cable exits etc</p> <p>10) In addition to other drawings, Contractor shall also prepare complete equipment layout drawings, lighting layout drawings including cable tray layout, routing, Power and control cable schedules etc</p> <p>11) Control interconnection charts shall also be prepared by Contractor</p>
1.11.00	<p><b>LIGHTING</b></p> <p>Complete lighting system for internal and external areas for the FGD system buildings, chimney and equipment in the bidder's scope. Lighting fixtures complete with lamps &amp; accessories, LED lighting fixture complete with driver circuit &amp; accessories Lighting Panels, Chimney aviation light, Receptacles, Switch boxes. Conduits. Lighting Wires, Ceiling fans with regulators, Lighting poles. Lighting masts, Earth wires and rods, Junction boxes, Battery operated automatic self contained lighting fixture, Maintenance ladders as required are included in the bidder's scope.</p> <p>Mandatory spare parts and maintenance equipment as required.</p>
1.12.00	<p><b>EARTHING AND LIGHTNING PROTECTION</b></p> <p>Complete below ground earth mat and above ground equipment earthing system and lightning protection for the plant and equipment under contractors scope along with its interconnection to the nearest employers earth grid at two points.</p>
1.13.00	<p><b>PAINTING FOR ELECTRICAL EQUIPMENT</b></p> <p>The painting of all electrical equipment shall be epoxy based with suitable additives. The thickness of finish coat shall be minimum 50 microns (minimum total DFT shall be 100 microns). However in case electrostatic process of painting is offered for any electrical equipment, minimum paint thickness of 50 microns shall be acceptable for finish coat. The Contractor shall furnish the complete painting details during detailed engineering stage.</p>
1.14.00	<p><b>CONSTRUCTION POWER</b></p> <p>To meet the construction power requirement of the FGD and associated systems, the Employer shall provide Two Number 415V feeders in LT switchgears. The Contractor shall extend supply from these Construction power feeders to meet the construction power requirements at the various locations included in the Contractor's scope through suitably rated Isolation Transformers along with LT</p>

	<p>distribution boards as per requirement. LT Packaged Sub-stations with isolation transformers may also be used for this purpose. Suitable metering arrangement along with associated Instrument transformers and Metering Cubicles meeting the DISCOM requirements shall be provided by the Contractor at each Construction power feeder, for the measurement of actual energy consumed by the Contractor. The charges only for the actual energy consumed by the Contractor shall be recovered by the Employer based on prevalent rate of DISCOM.</p> <p>Supply, erection, testing and commissioning of all equipments as required for further distribution for meeting the construction power requirements shall be in the Contractor's scope. All necessary statutory requirements for charging construction power of Contractor's network shall be in the Contractor's scope. Construction power supply network is a temporary arrangement which shall be used during the project construction phase. To meet this requirement, the equipments may be arranged by Contractor either by shifting their existing equipments at other installation or by fresh procurement, which may be taken back after commissioning of the project.</p> <p>Even though the Employer shall make all efforts to maintain a continuous supply of construction power, the same is not guaranteed and Employer shall not be responsible for any loss or delays which the contractor may suffer on this account. Also the Employer shall not entertain any claim for exemption/reduction of liquidated damages for delay in execution of the contract due to irregular power supply. Contractor shall arrange/provide necessary backup arrangement on his own for uninterrupted power supply.</p> <p>The Contractor shall maintain a minimum drawl power factor as per DISCOM regulations for their substations, and all such devices for maintaining power factor shall be under the scope of contractor. All temporary wiring must comply with local regulations and will be subject to Employer's inspection and approval before connection to supply. Power supply shall not be provided for use in labor and staff colony.</p>
1.15.00	<p><b>TYPE TEST</b></p> <p>Contractor shall carry out all type tests on electrical equipment's as stipulated in relevant chapters of Part-B of technical specifications.</p>
1.16.00	<p><b>MANDATORY SPARES</b></p> <p>Contractors scope shall include Mandatory Spares of all equipment as mentioned in the relevant portion of Technical Specification.</p>