

## Notice for Inviting Comments/Suggestions to Draft Specifications

**WCL Intends to Procure Truck TurnTable with scope of supply as below:**

(I) DESIGN, ENGINEERING, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF TRUCK TURNTABLE, COMPLETE WITH ACCESSORIES, WITH OPERATIONAL LOAD CAPACITY OF 100Te AND SUITABLE TO ACCOMMODATE TIPPERS / DUMPERS OF CAPACITY UPTO 60 Te.

(II) CAMC FOR A PERIOD OF 4 YEARS AFTER SATISFACTORY COMPLETION OF 1 YEAR TRIAL / WARRANTY PERIOD

**Draft Specifications of Truck Turntable are as below:**

<b>COMMON PARAMETERS</b>
<b>1.0.-ENVIRONMENTAL CONDITIONS :</b>
i) Altitude (above MSL) : Up to 1000 m
ii) Ambient Temperature : 50° C (Max.)
iii) Humidity (Max.) : 100%
iv) Atmosphere : Dusty (Mostly coal dust)
<b>2.1.PHYSICAL CHARACHTERISTICS:</b> Turntable Diameter: 9000 mm or above and suitable to accommodate tippers/dumpers of capacity upto 60Te.
<b>2.2. STRUCTURAL CHARACHTERSTICS:</b> (a) Operation Load Capacity : Min 100000 KG (b) Surface Treatment Structure: Hot Dip Galvanized
<b>2.3. CONTROLS;</b> (a) Rotation Direction: Bi- Directional (b) Incoming Power : 415 V, 3 ph,50 Hz, 32 Amps. (c) Variable Speed Drive (VSD) Control Acceleration : Soft Start 5 sec acceleration (approx) (d) Variable Speed Drive (VSD) Control Deceleration : Soft Start 5 sec deceleration (approx)

(e) Maximum Rotation Speed, Adjustable from 0.1 to 1 revolutions per minute.

**2.4. CONTROL PANEL:**

(a) ENCLOSURE: Wall mounted metal enclosure, powder coated finish, with key lock, and minimum of IP65 ingress protection, sized to house the VSD drives, protection devices, all controls and indicators

- Electronics and hardware certified to relevant and applicable heavy industrial standards

**2.5. PROTECTION:**

The control panel shall have appropriate surge, short circuit and thermal protection devices for all incoming and outgoing circuits.

**2.6. CONTROL CIRCUITS:** Control circuit shall be 220V AC

**2.7. CABLES:** VSD Control Cable

**2.8. FRONT PANEL CONTROL:** The following are minimal front panel controls:

- Rotate CW (dead man operation)
- Rotate CCW (dead man operation)
- E-stop Push Button
- Incoming Power Isolator Switch

**2.9. FRONT PANEL INDICATORS:** The following are minimal front panel indicators:

- Incoming Power ON
- Turntable Running ON
- Fault Indicator

**2.10. WEIGHMENT SYSTEM :** Shall provide inbuilt weighment system (To assist with production reporting a weigh station at the turn table entry point is to be provided. Bidder have to provide entire system including load cells, signal display, programming, integration with controls for reporting and installation.)

**3.0. : SCOPE OF WORK:**

3.1. : System Design & Engineering

3.2. : Supply of all material required for completeness of the System.

3.3. : Civil activities

3.4. : Installation , testing & commissioning of all components

3.5. : All the technical support & documentation required for statutory and regulatory approvals will be supported by bidder, if any.
3.6. : Ground area preparation for system set up as the case may be.
3.7. : Provision/ Arrangement should be made for entry of Manpower and material movement at Turntable.
3.8. : Statutory and regulatory approvals from the local or relevant authorities for system set up and commissioning, if any
3.9. : Water and electricity supply shall be provided by WCL, free of cost.
3.10. : 1-year composite system warranty. Repairs or replacements (under warranty) and other maintenance required for smooth operation and desired performance availability.
3.11. : Comprehensive Annual Maintenance Contract for 4 years. Period of CAMC will start after satisfactory completion of System Warranty of 1 years from date of commissioning.
3.12. : Any other component for completeness of system
<b>4: Guaranty / Warranty:</b> The complete system must be guaranteed against any manufacturing / design/ installation defects for a period of 1 year (12 months) from date of commissioning and 1-year composite system warranty shall be provided.
<b>5. : COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT:</b> Comprehensive Annual Maintenance contract for 4 years to be provided. Period of CAMC will start after satisfactory completion of Composite system Warranty of 1 years from date of commissioning. CAMC will include following terms & conditions:
5.1. : Comprehensive Maintenance of system for 4 Years after completion of warranty period shall be executed by the firm themselves or through the authorized dealer/ service centre of the firm in the concerned district
5.2. : Adjustments, cleaning, lubrication, servicing, general check-up, monitoring, repairs, replacements and other maintenance required for smooth operation and desired performance shall be taken up.
5.3. : Regular cleaning shall be ensured. Pipes, Tools, etc required for cleaning shall be arranged by contractor / bidder. Water shall be made available by WCL.

5.4. : Repairing/replacement of all defective components and sub-components of the system as per the requirement to ensure proper operation of the system:

(i) In case of any defect or breakage of the component due to normal wear and tear of equipments, contractor shall repair / replace the same at his own cost.

(ii) In case of any damage or breakage of the component due to damages, malfunctions or service failures caused by force majeure conditions such as riots, earth quakes, fire and sabotage, contractor shall repair / replace the same at user cost.

(iii) Whenever a complaint is lodged by the user at site, the contractor shall attend the same within 02 hrs and the system should be repaired/ restored/ replaced within 24 hrs.

(v) If any parts / spares / component is replaced, the old parts so removed is the property of maintenance contractor.

5.5. : Necessary maintenance spares for four years trouble free operation shall also be supplied and replaced.

5.6. : Comprehensive maintenance also includes onsite support for deployment of minimum one service personnel and minimum one visit in a quarter shall be carried out by the maintenance engineer as a preventive periodic maintenance.

5.7. : Comprehensive maintenance holder shall maintain a joint record for fault report from time to time against the emergency / service visits of the subject system, which shall be duly certified by the concerned engineer indicating the nature of the fault, date of report and date of rectification. One copy of the joint visit must be submitted to the concerned engineer. Complete reports shall be submitted along with the bills for the period of claim on satisfactory completion of Comprehensive maintenance tenure. No hike in the rates during the tenure of the maintenance contract is entertained.

5.8. : WCL reserves the right to terminate the contract at any time of the tenure.

5.9. Payment of CAMC will be released on quarterly basis (every 3 months) on submission of bill.

5.10. : Penalty during CAMC:

(i) The bidder / supplier shall ensure that the availability of the equipment does not fall below 85% (on quarterly basis).

(ii) For every one percent fall in availability below 85%, 1% value of the quarterly bill will be deducted.

(iii) In case the fall in % availability below 85% exceeds 10%, the quarterly bill will be rejected out-right and WCL reserves the right to terminate the contract.

**6. : Program Execution Schedule:**

1. : Delivery of systems : within 6 months from the date of Supply order.
2. : Installation & Commissioning: within 2 months from the date of handing over of Site by WCL to the EPC for installation.
NOTE: Delivery period shall be reckoned from the 7th day from the date of order.
3. : Upon intimation about commissioning of the systems by the EPC firm, a joint inspection will be carried out by the representatives of the executing firm and WCL and acceptance of satisfactory installation and commissioning will be issued by WCL in favour of the EPC firm
4. : The issuance of a commissioning certificate shall, in no way relieve the EPC firm of its responsibility from satisfactory operation, repair & maintenance contract.
5 : Training : The EPC after successful commissioning of system will elaborate the design and working of system and impart training to concern WCL employees.
<b>7.0. : SITE INSPECTION:</b> BIDDERS ARE EXPECTED TO VISIT THE SITE LOCATION BEFORE SUBMITTING THEIR OFFER. THEY MAY CONTACT THE STAFF OFFICER (E&M), UMRER AREA AND SEE THE ACTUAL SITE AND SUBMIT THEIR OFFER ACCORDINGLY .
<b>08.0-Availability Guarantee :</b>
a-The system shall have a guaranteed availability of not less than 85%.
b-The availability shall be calculated as follows :-
c- $\text{Availability} = \frac{\text{Available Hrs} - \text{Down Time}}{\text{Available Hours}} \times 100$
d-Available hours to be considered is 24 hours per day.
e-Down time is : Maintenance hours + Breakdown hours.

**NOTE: PROSPECTIVE BIDDERS MAY SEND ANY COMMENTS/ SUGGESTIONS TO ABOVE DRAFT SPECIFICATIONS VIA EMAIL TO EMAIL ID: [shshaik@coalindia.in](mailto:shshaik@coalindia.in), WITHIN 10 DAYS OF PUBLICATION OF THIS NOTICE.**