

SOUTH CENTRAL **RAILWAY**

SECUNDERABAD DIVISION **(MECHANICAL)**

30/10T Capacity EOT Crane **Tender Specifications**

Specification **No.Sr.DME/SC/EOT-30/10T/** **CHZ/2024 Rev-1.**

CHERLAPALLI

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Bidders Should supply the crane as per following IS Standards i.e. IS:3177:2020 (or Latest), IS:807-2006 (upto amendment no.2 November 2020 or Latest), IS:800-2007 (upto amendment no.2 February 2024 or Latest).

Note: Bidders may please note that wherever IS specifications are suffixed with the phrase (latest / or latest) including those in the attachments enclosed to the tender document, the material shall be supplied strictly conforming to the latest IS specification only.

Section-I**IMPORTANT FEATURES OF THE TENDER****INSTRUCTIONS TO TENDERERS FOR FILLING TECHNICAL BID:**

- 1.1. Unless otherwise stated, latest alterations/ revisions of specifications/ standards/ drawings shall be applicable. In respect of safety standards and environmental standards relevant to the machine, the machine manufacturers shall ensure compliance with international (CE/ISO/DIN/JIS) /National standards (IS) (wherever applicable).
- 1.2. Tenderers should offer and quote for all the specified concomitant accessories, as these are considered essential for commissioning and utilization of the machine. Even if bidder does not recommend the purchase of any of these accessories, the price must be quoted for comparison purposes and their recommendation/suggestion to be indicated in the offer. Tenderers should also quote for optional accessories, spares and consumable spares as asked in the specifications.
- 1.3. In case, any item is required in sets, please specify nos./pieces per set. This is essential for proper technical evaluation of the offer. Offers received without this may be considered as incomplete and liable to be rejected.
- 1.4. The bidder should quote only for the specified make of sub-assemblies and equipment wherever specified. In case, some other make is quoted, specific reasons for the same including its features/ advantages over specified makes should be submitted. Past performance of a same/similar machine from two or more end users may be submitted to evaluate performance of other items offered. Details of industries/ entities/Customers/products using the offered brand, details of manufacturer, should be submitted to evaluate the market presence of the make quoted; in case details are not submitted alternate brand/ item will not be considered & offer will be evaluated accordingly.
- 1.5. In case there is a contradiction in any information provided (some parametric values given in the specification and those given in the brochure or some other document enclosed by the tenderer), unless specifically mentioned in the deviation cum confirmation statement under Annexure A of Section III, the values as given in the specification shall be taken as confirmed by the tenderer and offer evaluated accordingly.
- 1.6. Bidder or his authorized agent, in their own interest, should visit the consignees listed

in clause 3 Section-I with prior appointment with Controlling Officer and acquaint themselves with existing process of manufacturing/remanufacturing, site conditions, availability of crane facility etc.

- 1.7. The tenderer shall provide satisfactory evidence, acceptable to the purchaser to show that he is a regular manufacturer and has adequate plant and manufacturing capacity and Quality Assurance Program, Information as per Annexure-L may please be furnished. The manufacturer shall have valid ISO-9001 certificate on the original date of closing of tender and a copy of same should be submitted along with bid (EOT Crane shall be in the scope of ISO certificate).
- 1.8. The Purchaser may accept internationally accepted alternative specifications which ensure equal or higher quality than the specifications mentioned in the Technical Specification. However, the decision of the Purchaser in this regard shall be final. A copy of the alternative specifications offered should be sent along with the offer. The Tenderer should also furnish "Statement of Deviations" from tender specifications (as per Annexure A, Section-III) along with the offer.

Deleted

Please see Eligibility & Performance Conditions in Tender Document

- 1.10. Performance Criteria: The tenderer must give the performance certificate of supplied machines (at least 10(ten) No's of such a cranes) are working satisfactorily (from the date of commissioning) with no adverse report for at least last one year on the date of original date of tender closing. The Certificate shall not be older than one year from the original date of closing of tender. The performance certificate issued after original date of closing of tender (in cases where tender closing date has been extended) are also acceptable however the machine must have completed one year of satisfactory working after date of commissioning as on original date of closing of tender.
- 1.11. The Statement of past supplies along with, (i) purchaser's name (ii) address, (iii) email address (iv) phone/fax number of purchaser, (v) purchase order (PO) or supply order number (vi) PO date (vii) along with the copies of purchase order (PO), (viii) quantity supplied (with proof of supply), (ix) date of supply (x) their commissioning date shall be submitted with the offer. Copies of POs/commissioning/performance certificate submitted shall also indicate the parameters/ specification of subject machine to prove same/ similarity aspect of the machine. Technical specifications of the machine from the related document of the PO may be attached to supplement the PO in regard to the respective parameters of similarity aspect of the machine. Specifications attached shall have linkages to the PO.
- 1.12. The performance certificate submitted by the tenderer shall have been issued by the actual end user organization of the machine, with their clear signature and address therein, in whose premises the machine is installed and commissioned. Performance certificates should be as per Annexure A1 given below.
- 1.13. Payment Terms : 80% payment will be made only after receipt of the plant in good condition at consignee's location against inspection certificate, issue of JRI, the supplier's delivery challan and submission of 10% WBG. 20% payment will be made after issuing PTC.

All necessary information / documents required for establishing reference requirement above shall be submitted by the bidder along with original offer itself for establishing linkage of documents / entities such as manufacturer / PO / consignee / supply / Installation / Commissioning / Performance Certificate of the machine. No further clarification / correspondence shall be sought / entertained in this regard. In case, no information or incomplete information or illegible information is furnished by the bidder, their offer shall be summarily rejected.

Annexure-A1 (Certificate of Performance)

Important Note: i) The certificate shall not be older than one year from the original date of closing of tender. The performance certificate issued after original date of closing of tender (in cases where tender closing date has been extended) are also acceptable however the machine must have completed one year of satisfactory working after date of commissioning as on original date of closing of tender.

ii) Performance certificate shall contain following information.

Letter Head of issuing authority

See Important Note above) Date of issuance:

TO WHOMSOEVER IT MAY CONCERN

S. N	Head	Details
1	Name of the Supplier	
2	Name of End User	
3	Name of the machine / description of machine / Crane	
4	Purchase/Supply Order Number	
5	Date of Purchase/Supply Order	
6	Date of Supply of machine(s) /crane	

7	Quantity supplied	
8	Manufacturer's Serial Number(s) of machine(s)/ crane or Plant/system etc. number (or some mode to identify the machine/ Crane) (Optional)	
9	Date of Commissioning (Give individual date for each machine /crane)	
10	Performance of the machine /Crane	Satisfactory / unsatisfactory
11	Any other information which user intends to append, for example a) aspects bringing out similar nature of machine, b) major / leading parameters of the machine /Crane.	

Name & Designation

Contact Number

Signature of the issuing authority

Email id

(Seal of the Organisation)

1. DESCRIPTION:

Electric Overhead Traveling Crane of 30T capacity as per parameters specified in schedule-I conforming to specification no. **Sr.DME/SC/EOT-30/10T/CHZ/2024 Rev-1** given in section-II. The crane shall be **Double girder** with **VVVF** Drive.

1.1. Leading parameters:

1.1.1. Leading parameters & type of Crane have been specified in Schedule– I.

1.2. Prove out at firm's premises:

1.2.1. The crane shall be proved out at the firm's premises as per QAP enclosed as Annexure-K. The crane shall be inspected and tested during different stages of its manufacture, starting from raw-materials till the completion of the crane, by the Purchaser or his authorized representative at the supplier's or his sub-supplier's works. The Quality Assurance programme will be as per Annexure-K. However, the purchaser or his authorized representative is free to institute any further checks also, if he so desires, and shall be in no way binding on the Purchaser.

1.3. Prove out at consignee's works:

1.3.1. Start up and trial Operations Test (Commissioning Test)

1.3.2. The contractor shall carry out the start-up and trial operation tests (commissioning test) on receipt of authorization from the Purchaser. In addition to tests indicated in IS: 3177(latest), the following shall also be shown:

- i) The earthing of the crane and control equipment, to be tested as per Indian Electricity Rules.
- ii) The operation of brakes on long travel, cross traverse and hoisting motions.
- iii) Inching control and creep speed as called for in technical specification.
- iv) There is no skewness in crane during long travel and cross travel motions, presence of vibrations and unusual noise in operation.

1.3.3. The trials shall be carried out initially under no load conditions and on satisfactory completion of these, trials shall be repeated for various loads until the full rated load and operating range are covered.

1.3.4. During the trial operation, all necessary adjustments shall be made so as to ensure compliance with the operating characteristics for the complete equipment as stipulated in the technical specifications.

2. QUANTITY & CONSIGNEE:**3.3.1 Quantity and consignee as specified in Schedule-I.****3. SCOPE OF SUPPLY:**

3.1. The specifications cover the design, manufacture, supply, installation, testing and commissioning of Electric Overhead Traveling cranes of 30T Capacity as per parameters specified in Schedule-I.

3.1.1. The Scope of supply shall include but not be limited to the following along

with necessary fittings, fixtures and ancillaries.

- i) Bridge structure with platform and hand railing
- ii) Track wheels for longitudinal and cross travel.
- iii) Travelling mechanism for longitudinal and cross travel
- iv) Hoisting mechanism.
- v) Brake Mechanism separately for long travel, cross traverse and hoisting.
- vi) Trolley.
- vii) Service Platform.(both sides)
- viii) Cabin, Pendant and Remote control.
- ix) Electrical motors, control gear and equipment.
- x) Synchronized operation of cranes. (Refer clause 18 of Section-II)

3.1.2. Spares as per schedule-IV and other additional spares, Slings/Chains/ Lifting tackles as specified in schedule-I. Any other items of spares considered essential by the tenderer for two years normal maintenance, to cover the complete range of mechanical, hydraulic and electrical equipment, shall also be quoted for separately. Item-wise cost of spares as indicated in Schedule-IV shall be separately quoted.

3.1.3. A tool box containing all tools required for the maintenance of the crane should be supplied with the crane as per enclosed list at Schedule-V.

3.2. CONCOMITANT ACCESSORIES:

The crane shall be conforming to schedule-I.

3.3. OPTIONAL ACCESSORIES:

3.3.1. Any other accessory/ equipment which in the opinion of the tenderer can contribute to better performance/operation shall be clearly indicated and quoted separately as optional accessory. The advantages should be clearly explained.

4. EVALUATION CRITERIA:

4.1. Total value of the offer will be calculated based on:

- i) The cost of basic EOT Crane.
- ii) Cost of DSL (type and length of DSL as specified in schedule-I).
- iii) Cost of spares as per schedule-IV and additional spares and items viz slings/lifting tackles as specified in schedule-I.
- iv) Cost of maintenance tools as per schedule-V
- v) Cost of any other accessory treated as concomitant accessory.
- vi) Cost of Installation & commissioning of crane and DSL (length of DSL as specified in schedule-I).
- vii) Duties, taxes, insurance, freight and packing charges.
- viii) Cost of preventive maintenance during 1st & 2nd year of Warranty Period

4.2. All related erection material required for inspection and commissioning of crane and connecting up to electrical equipment with cable laying and fixing accessories shall be included in the cost of basic EOT crane.

5. OTHER ITEMS TO BE QUOTED:

The following items will need to be quoted additionally though will not be part of commercial evaluation.