



**STEEL AUTHORITY OF INDIA LIMITED  
(A GOVT. OF INDIA UNDERTAKING)**

**IISCO STEEL PLANT  
PROJECTS DEPARTMENT  
BURNPUR-713325, INDIA**

**Tel: 0341-2240256**

**FAX: 0341-2241419**

**Website: www.sailtenders.co.in**

**INVITATION OF EXPRESSION OF INTEREST (EOI)**

**FOR**

**DESIGN, ENGINEERING, SUPPLY, INSTALLATION, HOT TRIAL, COMMISSIONING and PERFORMANCE GURANTEE OF NEW ONLINE HEAT TREATMENT, COOLING, STRAIGHTENING, FINISHING, TESTING, INSPECTION, WELDING & HANDLING FACILITIES FOR ROLLED RAILS IN UNIVERSAL SECTION MILL AT IISCO STEEL PLANT, BURNPUR, INDIA ON TURNKEY BASIS**

**EoI Notice No. ISP/USM/RAIL/EOI-868**

**Dated: 21/09/2019**

**GLOBAL EXPRESSION OF INTEREST**

Steel Authority of India Limited (SAIL)/ IISCO Steel Plant (ISP) invites EOI for design, engineering, supply and installation of new facilities in its existing Universal Section Mill at Burnpur works to produce heat treated 130 m finished rails/ 260 m welded panels .

The brief description of scope and other technical details are given in this document under the heading “**Technical Details**”. The interested parties may submit their proposal for expression of interest as per the requirement mentioned in the “**Technical Details**”.

Expression of Interest (EOI) may be submitted through post/ courier service/ e-mail along with name of the organization, experience in the area of heat treatment of rails, rail finishing, testing, inspection, welding & handling, address, phone no., fax no., email id, name and contact no. of the concerned person(s) in the format enclosed at **Annexure-A**.

1) **SUBMISSION OF EOI**

Application with all enclosures should be properly numbered and bound in a booklet, if sent through post/ courier service. Interested party's name, address, phone/ fax no./ e-mail address must be mentioned in the left hand bottom corner of the sealed envelope.

Duly filled **Annexure-A** must be submitted along with the offer.

Interested parties may submit their EOI application with full details in three sets (one original and two copies along with a soft copy in pen drive or through e-mail) in English language in sealed envelopes so as to reach the address given at **para 2** above clearly superscribing the content as "Expression of Interest" as per the requirement mentioned in the "**Technical Details**".

2) **ADDRESS FOR SUBMISSION OF EOI**

The Office of the Executive Director (Projects)  
PROJECTS DEPARTMENT,  
STEEL AUTHORITY OF INDIA LTD.  
IISCO STEEL PLANT,  
Burnpur 713325, India  
Tel : **0341-2240256**  
Fax : **0341-2241419**  
E-mail : [edproject.ts@gmail.com](mailto:edproject.ts@gmail.com)

3) **CONTACT PERSON**

Any clarification on EOI, if required, may be sought from the below mentioned contact person at least ten days prior to the last date of submission of EOI.

Name of contact person	Designation	Contact no.	e-mail id
M. Banerjee	DGM (Projects)	9434776872	<a href="mailto:ispprojectcontract2@gmail.com">ispprojectcontract2@gmail.com</a>
C. Ghosh	DGM (Projects)	9434776870	<a href="mailto:cghosh1960usm@gmail.com">cghosh1960usm@gmail.com</a>

4) **ISSUE OF EOI DOCUMENT**

The interested parties may download this EOI document from SAIL website, i.e., [www.sailtenders.co.in](http://www.sailtenders.co.in) for submission of their EOI application.

5) **LAST DATE OF SUBMISSION OF EOI: 12.10.2019 up to 12:00 Hours (IST)**

SAIL/ ISP shall not be responsible for non-receipt of documents sent by post/ courier/ e-mail. SAIL/ ISP may at its sole discretion extend the last date and time of submission of EOI by issuing a corrigendum. Such extension, if any, shall be notified on SAIL website and shall be applicable to all interested parties. The interested parties are requested to visit the SAIL website regularly ([www.sailtenders.co.in](http://www.sailtenders.co.in)).

6) This document is being issued to only elicit an Expression of Interest from interested parties for the specified work and shall not constitute any binding commitment from

SAIL/ ISP to proceed with the work or invite any or all interested parties in the subsequent discussion/ bidding process.

- 7) SAIL/ ISP reserves the right to withdraw from the process or any part thereof, to accept or reject any or all applications in full or in part at any stage of process and/ or to modify the process or any part thereof or to vary the scope and terms of EOI at any time without assigning any reasons whatsoever. No financial obligations, whatsoever, shall accrue to SAIL/ ISP in such an event.
- 8) Purpose of EOI: To explore probable vendors as well as viability for installation of new online heat treatment, cooling, straightening, finishing, testing, inspection, welding & handling facilities for rolled rails of 135 m length at entry roller table of existing cooling bed in USM, in the proposed layout for production of finished rail of 130m length and welded panel of 260 m length.

For SAIL/ ISP

## Annexure-A

### FORMAT FOR BASIC INFORMATION ABOUT THE INTERESTED PARTIES

(To be submitted on interested party's Letter Head)

Instructions to fill up the basic information:

- 1) This worksheet is to be used for specifying basic financial/ Internal Rate of Return/ contact information. An authorized person should sign the document at relevant section.
- 2) Past industrial relations track record. In case there was closure/ cessation of work at any of the plant(s) in last five years, the same to be specified.
- 3) This form is to be used as proforma/ format. Additional sheets may are to be used to provide relevant information.

1	Company's name	
2	Ownership details	
3	Mention, if PSU/ Joint venture with PSU/ SSI Unit	
4	Contact person & designation	
4a	Phone no./ Mobile no.	
4b	Fax no.	
4c	E-mail	
5	Vendor code in ISP (if available)	
6	Reference for experience of owning and / or setting up heat treatment, cooling, bi-planer straightening, finishing, testing, inspection, welding, handling, storage & despatch facilities for rails. Quantity of rails supplied, as per standards, from such facility need to be mentioned.	
7	Any other relevant factor	

I hereby certify that all information provided above is correct to the best of my knowledge.

(Signature, name & seal of the authorized person)

(TECHNICAL DETAILS)

EOI Notice No. ISP/USM/RAIL/EOI-868

Dated: 21/09/2019

1 **BROAD OVERVIEW**

1.1 Universal Section Mill (USM) is one of the main production units of IISCO Steel Plant (ISP), SAIL. Cast blooms/ beam blanks of various cross-sections as input material are sourced from upstream Continuous Casting Plant (CCP). USM produces wide range of steel sections comprising narrow/ wide beams with parallel flanges, joists, channels, angles & other structural in different sectional weight.

2 **TECHNOLOGICAL PARAMETERS OF NEW FACILITIES FOR RAILS IN USM**

ISP shall take up necessary modifications in existing USM for producing required quality of rails of 135 m length at the roller table of existing cooling bed for take-over by the entry line of the new facility.

Major technological parameters of the input rolled rails will be provided by the mill for the new facilities are stated below:

Input rolled rail sections from mill	52 kg/m (IRS 52), 60 kg/m (UIC 60), 68 kg/m (136RE14), asymmetrical rail (Zu 1-60)
Length of input rolled rail from mill	Up to 135 m
<b>Input rolled rail grades from mill</b>	
For rails without heat treatment	
as per IRS T12-2009, EN, AREMA & other international specification	880 grade, V/ Nb micro-alloyed, 1080Cr, Cu-Mo, NCC, R-260, 320 Cr
For rails with heat treatment	
as per IRS T12-2009, EN, AREMA & other international specification	1080HH, 350HT, 350LHT, 370 CrHT, 400HT

Major technological parameters of the proposed new facilities in USM, ISP are stated below:

Specifications of heat treated rails	IRS 1080/ 1175HH, EN 13674-1 (R350HT, R350LHT, R370CrHT, R400HT)
Finished rail length for handling, storage & despatch	130* m tested OK, short rail (9 m to 26 m), welded panels of 260 m tested OK *(salvaged single piece rail shall be 65-117 m)
Finished rail / Welded panels length for dispatch	260 m, 26 m, 13 m

Mode of operation	3-shift per day
Annual production capacity	800,000 tpa

### 3 SCOPE OF INTERESTED PARTIES

The scope shall broadly include the following:

- 1) Design, engineering, supply, installation, hot trial, commissioning and performance guarantee of new facility and Interfacing/ integrating with exit end of run-in roller table of existing cooling bed on the mill and complying to the specifications stated at clause 2 of the Technical details of this EOI document.
- 2) Facility for sample cutting of heat treated rails along with sample collection facility.
- 3) Walking beam type cooling bed with associated run-in/ out roller tables, pre-cambering at entry, forced air cooling & other associated facilities for cooling un-heat treated / heat treated rails & delivering on exit roller table
- 4) Bi-planer straightening machines with associated rail tilting facility & adequate number of rollers for straightening of cooled rails in both horizontal & vertical plains to ensure straightness as per IRS T12 2009 & international standards
- 5) Rail surface cleaning facility
- 6) Profile & laser straightness measurement system, eddy current testing & ultrasonic testing facilities with provision of unique defect marking facility as per IRS T12 2009 and international standards
- 7) Online visual inspection facility of rail surfaces with provision of hand/mechanized grinding facility to rectify the mendable surface defects
- 8) Online cutting, rail end straightening (gag press), drilling & chamfering facility
- 9) Rail welding plant with brushing unit for surface preparation before welding, flash butt welding facility, saw for sample cutting, post weld treatment matching with input rails (in-built air quenching & annealing facilities), de-burring, grinding, straightening, ultrasonic testing & inspection facilities for weld joints. Provision of offline transverse load testing (TLT) facility as per IRS T 12 2009 and other international standards for weld joints
- 10) Inter-connecting roller tables/ cross-transfer/ rail transportation mechanisms
- 11) Handling, storage & despatch, facilities for 130 m/ short rails (13 m, 26 m)/ 260 m welded panels
- 12) Associated support facilities like ECRs, Hydraulic cellars, oil cellars, civil and structural works, cranes, power, utilities, pollution control, material handling, fire

detection & fighting system, air conditioning, testing laboratories and safety systems, overhead sheds, etc

- 13) Interfacing/ integrating with process control & data networking with existing system of USM and Plant network
- 14) Any other facilities required or felt necessary for completion and smooth functioning of facilities.

#### **4 LOCATION & LOGISTICS**

Depending upon the space availability & site logistics, the disposition of the new facilities along with all associated support facilities like power, utilities, pollution control, material handling, safety systems and overhead sheds etc are to be decided in consultation with ISP.

*Interested Parties may visit SAIL ISP to have insight of the site & logistics for installation of the new facilities. Rough layout of the proposed area for installation of new facilities is attached at Annexure-B*

#### **5 INFORMATION TO BE FURNISHED BY INTERESTED PARTIES**

Interested parties are required to submit a detailed description of the offered facility for heat treatment, cooling, finishing, testing, inspection, welding, handling, storage & despatch facilities for rails. Following aspects should also be included in the documents to be submitted along with EOI:

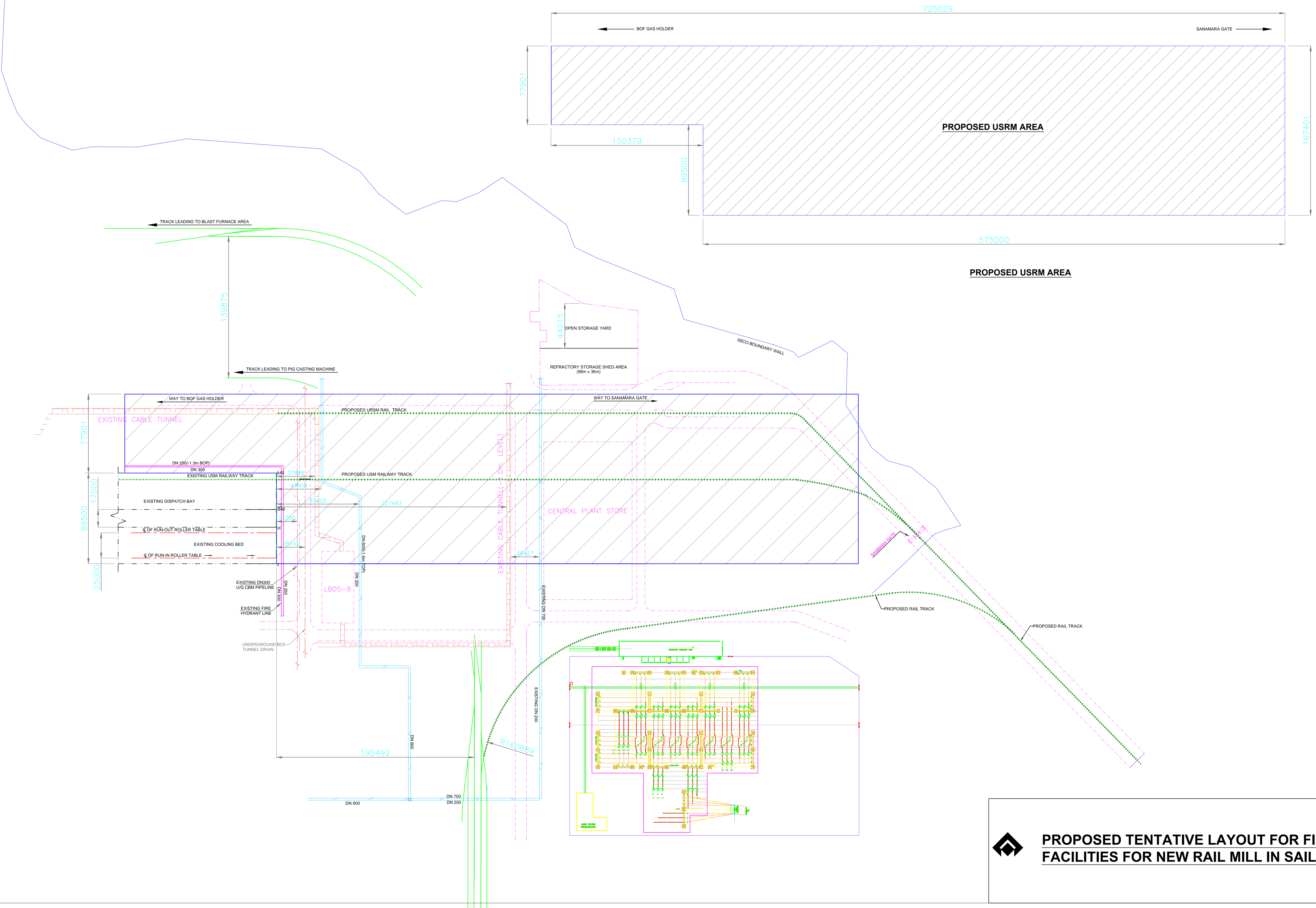
- 1) Experience (sole or in consortium) of designing, supplying, installation, hot trial, commissioning and performance guarantee of heat treatment, cooling, finishing. Testing, inspection, welding, handling, storage & despatch facilities for rails in different grades and capacity
- 2) Broad description of the heat treatment process offered including the cooling media and the achieved properties. The properties should comply with the mentioned relevant standards of rails (refer clause 2 of technical details of this EOI document)
- 3) Completion period from order placement to commissioning
- 4) Quantity of rails supplied, as per international standards, from the facilities

#### **6 REQUIREMENT FOR SUBMISSION OF EOI APPLICATION**

The interested parties are required to submit references/ installation list with details like year of installation, capacity, place of installation of facility/ facilities, Quantity of rails supplied along with EOI application

#### **7 DISCUSSION / PRESENTATION**

Parties are requested to be ready for presentation and discussion regarding information furnished by them in the week starting from 14.10.2019. However, exact date will be intimated through e-mail after opening of EOI.



 **PROPOSED TENTATIVE LAYOUT FOR FINISHING FACILITIES FOR NEW RAIL MILL IN SAIL ISP.**