



STEEL AUTHORITY OF INDIA LIMITED
(A Government of India Enterprise)

Materials Management Department Salem
Steel Plant, Salem – 636013

EXPRESSION OF INTEREST

REF No.SSP/E01/25-26/04

FOR

CONTINUOUS CAST STAINLESS STEEL SLABS

INTRODUCTION

Steel Authority of India Limited (SAIL) is an Indian state-owned steel making company based in New Delhi, India. It is a public sector undertaking, owned and operated by the Government of India. SAIL is the largest steel producer in India and one of the largest steel producers in the world.

SAIL operates and owns 5 integrated steel plants at Bhilai, Rourkela, Durgapur, Bokaro and Burnpur (Asansol) and 3 special steel plants at Salem, Durgapur and Bhadravathi. It also owns a Ferro Alloy plant at Chandrapur.

Salem Steel Plant, a special steel unit of Steel Authority of India Ltd, pioneered the supply of wider width stainless steel sheets / coils in India. The plant can produce austenitic, ferritic, martensitic & low-nickel stainless steel in the form of coils & sheets with an installed capacity of 70,000 tonnes / year in Cold Rolling Mill & 3,64,000 tonnes / year in Hot Rolling Mill. Its steel melting shop can produce 1,80,000 tonnes of slabs per annum. In addition, the plant has country's first top-of-the-line stainless steel blanking facility with a capacity of 3,600 tonnes / year of coin blanks & utility blanks / circles.

SSP intends to procure Stainless steel slabs from indigenous/overseas suppliers as per the below specification. The interested bidders may submit EOI.

SPECIFICATION FOR CONTINUOUS CAST STAINLESS STEEL SLABS

- 1.0 Scope of Application
This specification is meant for procurement of continuous cast stainless steel slabs for hot rolling to coils for subsequent hot rolled/ cold rolled finish product.
- 2.0 Chemical Composition
The chemical composition for stainless steel shall conform to specifications given in Annexure - 1.
- 3.0 Slab Dimensions & Shape Tolerances
As per Annexure - 2 & 3.
- 4.0 Weight of the Slab
The maximum weight of the slab shall not exceed 15.5 T. A maximum of 5% lower weight slabs are permitted with minimum slab length of 6.5 m.
- 5.0 Thickness Deviation Across the Width
The slabs shall have flat surface and symmetrical cross section.
- 6.0 Surface Quality
Slabs should have uniform finish and should be free from harmful surface defects such as edge cracks, transverse/longitudinal surface cracks, surface ruptures, blow holes, entrapments like slab casting powder, refractory, overlaps, double teeming and any other defects which may result in internal/external imperfections in the rolled product.
Also, cut edges should be free from fins/slag.
- 6.1 Slab Grinding
The Supplier will inspect all the slabs before despatch and only the slabs with surface quality suitable for hot and cold rolling will be despatched. Supplier has to grind slabs to remove surface defect on flat surface and at edges as per standard operating practice. If grinding is done, quality of grinding will be as follows:
Quality of Grinding
i) Grinding roughness (R_t) shall be aimed less than 150 microns
ii) Localized excessive grinding shall be avoided.
iii) In case of localized grinding of depth more than 3 mm and area 200/300 cm² near edge on one side of the slab, an identical area shall be ground at symmetrical location at other side.
- 7.0 Internal Quality
Slabs should have suitable internal soundness and cleanliness to produce defect free product.
- 8.0 Inspection: The hot rolled coils produced out of slabs shall be suitable for cold rolling. The surface of hot/cold rolled coils shall be free from harmful defects including shells, slivers, seams, scabs, laminations, pipes and cracks.
While processing the material in HRM & CRM, if defect attributable to the input material (slab) is found, Purchaser will raise a claim in respect of such defective material.
- 9.0 Slab Marking
The slabs shall be marked legibly in bold letters on both long edges with the following details:
- Supplier's Name
- Heat Number
- Slab Number
- Grade
- Slab Weight
- Slab Dimensions
- 10.0 Test Certificates
A Test Certificate giving the following details shall be furnished:
a) Heat Number, Slab Number, Grade, Thickness, Width, Length, Chemical Composition and Weight.
b) Confirm that "Material is free from Mercury contamination and radiation".

CHEMICAL COMPOSITION FOR CCSS SLABS

Grade	% C	% Mn	% P	% S	% Si	% Cr	% Ni	% N	% Mo	% Ti	Others
304	0.040- .055	1.10- 1.80	0.045ma x	0.015 max	0.20- 0.40	18.0- 18.30	8.0- 8.10	0.04- 0.07	-	-	-
316	0.06 max	1.10- 1.80	0.045 max	0.015 max	0.20- 0.40	16.50- 17.10	10.0- 10.15	0.030 0.050	2.00- 2.10	-	-
316L	0.028 max	1.40- 1.80	0.045 max	0.015 max	0.20- 0.40	16.50- 17.10	10.0- 10.15	0.050 0.080	2.00- 2.10	-	-
310S	0.06 max	1.40- 1.80	0.035 max	0.010 max	0.50- 1.00	24.30- 25.00	19.05- 19.50	0.030 max	-	-	-
321	0.03 max	1.10- 1.80	0.045 max	0.015 max	0.30- 0.60	17.50- 18.00	9.05- 9.15	0.03 max	-	5X(C+N) min and 0.50max	-
409	0.02 max	0.50- 0.80	0.04max	0.015m ax	0.40- 0.70	10.80- 11.30	0.30 max	0.02 max	-	6x(C+N) min/0.50 max	Nb-0.17max
441	0.025 max	0.50 max	0.04 max	0.015 max	0.30- 0.50	17.80- 18.30	0.20 max	0.02 max	-	0.12-0.17	Nb- (9xc)+0.3mi n/0.60 max

Annexure - 2

(a) SLAB DIMENSIONS

Thickness	140 - 200, Preferably upto 170 / 175 + 3 mm - 6 mm
Width Tolerance	1000-1285 ,+ 10 mm - 0mm
Weight	max 15.5 T
Length *	6.5 - 10.3 m

(b) SHAPE TOLERANCES

Off Flat	: < 5 mm per meter
Camber	: ≤4mm/ m & 20 mm max
Transversal off Flat	: ≤ 10 mm
Out of Square	: ≤ 15 mm
Taper	: ≤ 10 mm
Trapezoidal Shape	: ≤ 10 mm each side
Twist	: ≤ 10 mm
Edge Concavity	: ≤ 10 mm of each side
Edge Convexity	: ≤ 8 mm of each side
Crown (convexity)	: ≤ 5 mm (No concavity allowed)
Cut deviation	: < 15 mm

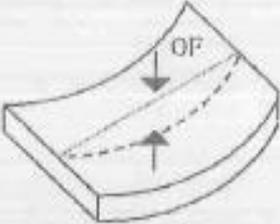
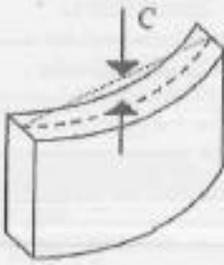
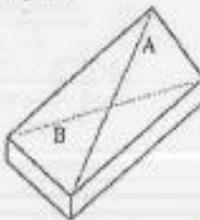
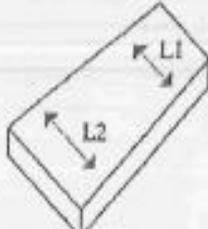
(Refer diagram in Annexure - 3 for explanation)

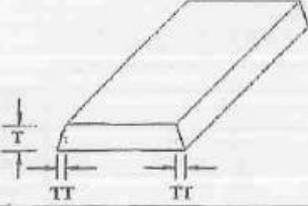
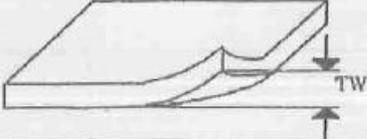
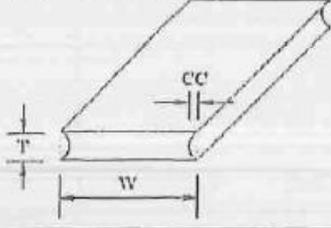
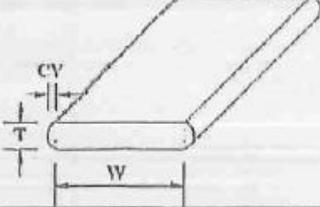
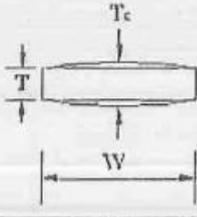
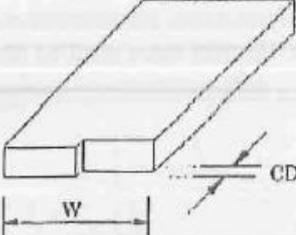
Tentative Quantity

1. 304 - 4500 T
2. 310 S - 300 T
3. 316 L - 600 T
4. 321 - 150 T
5. 409 - 500 T
6. 441 - 300 T

Annexure - 3

SHAPE TOLERANCES

Items	Legend	Tolerance
<p>1 - Off Flat</p> 	<p>OF = Off Flat</p>	<p>$OF < 5 \text{ mm/m}$</p>
<p>2 - Cambering</p> 	<p>C = Cambering</p>	<p>$C \leq 4 \text{ mm/m}$</p>
<p>3 - Transversal Off Flat</p> 	<p>W = Slab Width A = Arch</p>	<p>$A \leq 10 \text{ mm}$</p>
<p>4 - Out of Square</p> 	<p>A = Bigger diagonal B = Smaller diagonal (A - B) = Out of Square</p>	<p>$(A - B) \leq 15 \text{ mm}$</p>
<p>5 - Taper</p> 	<p>T = Taper L₂ = Bigger width L₁ = Smaller width</p>	<p>$T = L_2 - L_1 \leq 10 \text{ mm}$</p>

ITEMS	LEGEND	TOLERANCE
<p>6 - Thickness trapezoidal shape</p> 	<p>T = Thickness TT = tapered thickness 01</p>	<p>$TT \leq 10$ mm Each one</p>
<p>7 - Twist</p> 	<p>TW = Twist</p>	<p>$TW \leq 10$ mm</p>
<p>8- Width Concavity</p> 	<p>T = Slab Thickness CC = Concavity W = Width</p>	<p>$CC \leq 10$ mm Each side</p>
<p>9 - Width convexity</p> 	<p>T = Slab Thickness CV = Convexity W = Width</p>	<p>$CV \leq 8$ mm Each side</p>
<p>10 - Crown</p> 	<p>CR = Crown $CR = T_c - T$ W = Width</p>	<p>$CR = T_c - T \leq 5$ mm</p>
<p>11 - Cut deviation</p> 	<p>CD = Cut Deviation W = Width</p>	<p>$CD < 15$ mm</p>

For any clarifications, please contact

Shri Saravanan S, Senior Manager (MM-Purchase), saravans@sail.in, 0427 238 2806

The sealed envelope must be super-scribed with EOI for "EOI for Continuous Cast Stainless Steel Slabs" with the EOI No. SSP/EOI/25-26/04 addressed to GM I/c (MM), Salem Steel Plant, Salem-636 013, Tamil Nadu.

SAIL/SSP reserves the right to reject any or all the EOI without assigning any reason whatsoever and this EOI constitutes no form of commitment on the part of SAIL/SSP.

We may not necessarily send all our enquiries for those categories of items as and when we are in the market. This EOI does not guarantee award of contracts.

We reserve the right to demand from you such sureties as may be necessary as an earnest of your fulfilling contracts/supply orders which we may award you.

Regards
Steel Authority of India Limited
Salem Steel Plant
Salem 636013

GENERAL INSTRUCTIONS TO THE VENDORS

- 1.0 Interested vendors may obtain further information about this requirement from the above office. They may also visit our website mentioned below for further details.
- 2.0 It is neither a notice inviting tender nor Request for Quotation (RFQ). Submission of EOI by the agencies does not automatically guarantee that they will be invited for further discussion on the subject or for signing of any agreement and also does not confer any right to selection or award of job contract.
- 3.0 No fee for EOI document.
- 4.0 If requested, E.O.I. document will be mailed by email to tenderers.
- 5.0 For Corrigendum/Addendum, if any, no advertisements will be issued in newspaper. The eligible vendors shall visit <https://sailtenders.co.in> website for latest updates.
- 6.0 Vendors will ensure that their applications duly sealed and signed, complete in all respects as per instructions contained in the Invitation to E.O.I. Documents, are dropped in the tender box located at "Admin Building, Salem Steel Plant, Salem-636 013" on or before the closing date and time indicated above, failing which the documents will be treated as late and rejected.
- 7.0 The EOI documents are not transferable.
- 8.0 The firm should furnish the firm's name, full postal address (Office), Phone Number and Fax Number; Name of the authorized contact person and e-mail address.
- 9.0 The firm should not have been blacklisted /debarred for dealing by Government of India or any State Govt. in any manner and an undertaking should be submitted along with the Bid, to this effect.
- 10.0 Participants are required to stamp and provide their authorized signature on every page of the E.O.I. document and all the supporting documents submitted as a token of acceptance to the mentioned terms and conditions.
- 11.0 The firms who are currently registered with National Small Industries Corporation, New Delhi, Directorate General of supplies and Disposals, New Delhi and Micro Small and Medium Enterprises, New Delhi must enclose valid registration document along with registration application.
- 12.0 Those of the firms who are authorized dealers of any manufacturer(s) may enclose dealership certificate of Original Equipment Manufacturer(s).
- 13.0 SSP reserves the right to change or cancel these requirements and / or the EOI process at any time without assigning any reason whatsoever. No financial obligation, whatsoever, shall accrue to SSP in such eventuality.
- 14.0 SSP shall not reimburse any cost incurred by the applicant in making this EOI proposal or in providing any clarification or making presentation / discussion if called for.
- 15.0 The bidder should not have any legal proceedings pending in a court of law against SSP. All the information / documents furnished are liable to be verified and in case of misrepresentation / forgery noticed at any stage, the decision of SSP will be final and binding.
- 16.0 SSP reserves the right to change / modify or cancel these requirements and / or the EOI process at any time. SSP will not accept or respond to agencies for information on the status and progress of evaluation process.
- 17.0 **BAN AND BLACKLISTING:** In the following cases, firms or individuals should be banned/blacklisted including declaring them ineligible, either indefinitely or for a stated period of time, to participate in the tenders to be floated:
 - If any of the bidder(s) is found presenting misleading/ false information/ documents in the tender forms, statements etc.
 - If a firm engages in corrupt, fraudulent, collusive or coercive practices in procurement or execution of Contract.
 - Deliberate attempts to pass off inferior goods or short quantities