



**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
SETTING UP SOLID WASTE UTILISATION PLANT AT SAIL ISP**

EOI Notice No. ISP/EMD/SOLID-WASTE/EOI-876

dated: 13.02.2020

EXPRESSION OF INTEREST

Steel Authority of India Limited (SAIL)/ IISCO Steel Plant (ISP) invites EOI for setting up Solid Waste Utilization Plant at SAIL ISP on BOO basis at Burnpur works.

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, 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** below 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, ispprojectcontract2@gmail.com,
groy.dgp@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
Goutam Roy	CGM (Safety & Environment)	9434776086	groy.dgp@gmail.com
M. Banerjee	GM (Projects)	9434776872	ispprojectcontract2@gmail.com

4) **ISSUE OF EOI DOCUMENT**

The interested parties may download this EOI document from SAIL website, i.e., www.sailtenders.co.in for submission of their EOI application.

5) **LAST DATE OF SUBMISSION OF EOI: 05.03.2020 up to 15:00 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).

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 setting up Solid Waste Utilization Plant at SAIL ISP on BOO basis at Burnpur works.

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/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 past, 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 Solid Waste Utilization Plant.	
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/EMD/SOLID-WASTE/EOI-876

dated: 13.02.2020

- 1.0 IISCO Steel Plant (ISP) situated at Burnpur, West Bengal is one of the integrated steel plants of Steel Authority of India Limited (SAIL). ISP intends to utilize the generated solid wastes and convert them into useful products.
- 2.0 Expressions of Interests (EOI) are invited from the competent parties who are engaged in the field of Integrated Steel Plant for setting up Solid Waste utilization plant such as Briquetting/Pelletizing plant or any other useful products on BOO basis.
- 3.0 ISP shall provide the licensed land for exclusive purpose of setting up the Solid Waste utilization plant. The party shall develop the allotted site.
- 4.0 The details of solid waste to be utilized and their quantity are as follows:

	Solid waste	Tentative quantity (Ton/ year)
1.	Blast furnace GCP sludge	37500
2.	Blast furnace Flue dust	51500
3.	BOF slag	335500
4.	BOF GCP sludge	60000
5.	Mill scale	34000
6.	Lime & dolomite dust	134000
7.	Refractory waste	8000
8.	Coal tar sludge	1000

Analysis of above materials are given in annexure 1

5.0 Scope of work

- Setting up of Solid Waste utilization plant in the allocated land.
- Operation mode: Build Own Operate Maintain (BOOM). Under this model entire investment for setting up of the Plant including running expenditure shall be borne by the agency. ISP shall provide power, air, water and other utilities on mutually agreed terms. The agency shall supply the useful products to ISP as per 'buy back' purchase agreement.

6.0 Information to be provided by the Party

- Quantity and quality of products
- Brief process description of the scheme offered along with process flow diagram
- Technical datasheet of major equipment
- List of reference plant for offered scheme
- Area of land required
- Scope of work included in Party's scope. Obligations of ISP.
- Time schedule for setting up the plant
- Capital cost. O&M/Conversion cost per MT of product.
- Envisaged benefits/savings to ISP
- Parties financial as well as technical credentials

7.0 Processing of EOI

- a) The EOI submitted shall be examined by ISP and the short-listed agencies may be invited for a detailed presentation to discuss the proposal
- b) ISP reserves the right to change or cancel the EOI process at any time without assigning any reason whatsoever. No financial obligation, whatsoever, shall accrue to ISP in such eventuality.
- c) ISP 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.
- d) All the information / documents furnished are liable to be verified and in case of misrepresentation / forgery noticed at any stage, the decision of ISP will be final and binding.

Annexure 1

Blast Furnace Flue Dust

Elements	Percentage	Elements	Percentage
Fe ₂ O ₃ :	39.07	LOI:	39.24
SiO ₂ :	9.06	SO ₃ :	1.03
Al ₂ O ₃ :	4.42	P ₂ O ₅ :	0.28
CaO:	5.31	Na ₂ O:	0.10
MgO:	0.67	K ₂ O:	0.29
TiO ₂ :	0.26	ZnO:	0.02
Cr ₂ O ₃ :	0.03	ZrO ₂ :	0.01
MnO:	0.09	Cl:	0.06

Blast Furnace GCP Sludge

Elements	Percentage	Elements	Percentage
Fe ₂ O ₃ :	39.93	SO ₃ :	1.28
SiO ₂ :	9.50	P ₂ O ₅ :	0.25
Al ₂ O ₃ :	5.74	Na ₂ O:	0.28
CaO:	5.28	K ₂ O:	1.53
MgO:	1.02	ZnO:	0.49
TiO ₂ :	0.21	PbO:	0.35
Cr ₂ O ₃ :	0.02	ZrO ₂ :	0.01
MnO:	0.08	Cl:	0.06
LOI:	33.93		

BOF Slag

Elements	Percentage	Elements	Percentage
Fe:	23.57	Cr ₂ O ₃ :	0.08
SiO ₂ :	14.79	MnO:	0.83
Al ₂ O ₃ :	0.27	S	0.07
CaO:	45.24	P ₂ O ₅ :	1.31
MgO:	5.50	K ₂ O:	0.05
TiO ₂ :	0.97		

BOF Sludge

Elements	Percentage	Elements	Percentage
Fe ₂ O ₃ :	61.37	LOI:	2.84
SiO ₂ :	4.54	SO ₃ :	0.56
Al ₂ O ₃ :	0.70	P ₂ O ₅ :	0.22
CaO:	25.01	Na ₂ O:	0.10
MgO:	3.95	K ₂ O:	0.10

TiO ₂ :	0.18	ZnO:	0.02
Cr ₂ O ₃ :	0.03	ZrO ₂ :	0.001
MnO:	0.33	Cl:	0.02

Mill Scale

Elements	Percentage	Elements	Percentage
Fe ₂ O ₃ :	88.08	Cr ₂ O ₃ :	0.05
SiO ₂ :	9.61	MnO:	0.83
Al ₂ O ₃ :	1.28	SO ₃ :	0.14
CaO:	0.26	P ₂ O ₅ :	0.08
MgO:	0.16	Na ₂ O:	0.20
TiO ₂ :	0.05	K ₂ O:	0.27

Dolomite Fines

Elements	Percentage	Elements	Percentage
Fe ₂ O ₃ :	0.61	LOI:	21.73
SiO ₂ :	0.69	SO ₃ :	0.14
Al ₂ O ₃ :	0.26	P ₂ O ₅ :	0.02
CaO:	51.4	Na ₂ O:	0.02
MgO:	25.00	K ₂ O:	0.03
MnO:	0.05	Cl:	0.02

Lime Fines

Elements	Percentage	Elements	Percentage
Fe ₂ O ₃ :	0.28	MgO:	2.98
SiO ₂ :	0.71	MnO:	0.01
Al ₂ O ₃ :	0.02	LOI:	8.23
CaO:	87.25	K ₂ O:	0.04

Coal Tar Sludge

Elements	Percentage	Elements	Percentage
Fe ₂ O ₃ :	0.32	MgO:	<0.01
SiO ₂ :	1.78	LOI:	97.46
Al ₂ O ₃ :	<0.1	Na ₂ O:	0.02
CaO:	<0.01	K ₂ O:	0.01
