



NEELACHAL ISPAT NIGAM LIMITED

Kalinga Nagar Industrial Complex, Duburi -755026

EXPRESSION OF INTEREST

Ref.No.:NINL/CM/SSS/EOI/150

Date: 18.06.2018

Neelachal Ispat Nigam Limited invites Expression of Interest (EOI) from reputed agencies for installation of **Coal Tar Distillation Unit** at Kalinga Nagar,Duburi, Odisha.

Please visit our website www.ninl.in for details of EOI. Interested bidders to submit their response on or before 5.00 PM of 11.07.2018.

Any subsequent Amendment to the EOI / extension of EOI submission date shall only be posted at www.ninl.in. Intending bidders should visit NINL's webpage for EOI regularly.

DGM (Commercial)

NOTICE INVITING EXPRESSION OF INTEREST (EOI) FOR INSTALLATION OF COAL TAR DISTILLATION PLANT

EOI Ref. No.:NINL/CM/SSS/EOI/150

Date: 18.06.2018

LAST DATE & TIME FOR SUBMISSION OF EOI: 11/07/2018 By 17.00 Hrs.

1.0 INFORMATION ABOUT NINL & NALCO:

1.1 Neelachal Ispat Nigam Ltd. (NINL), incorporated under the Companies Act 1956 having its registered office at IPICOL House, Annexe. 1st Floor, Janpath, Bhubaneswar, Orissa, PIN-751022, has set up an integrated Iron and Steel Plant at Kalinga Nagar Industrial Complex, Duburi, Distt. – Jajpur, Odisha, Pin-755026.

1.2 National Aluminium Company Limited (NALCO), a Navratna CPSE under Ministry of Mines, Government of India , incorporated under the Companies Act, 1956 having its Registered office at NALCO Bhawan, Plot No P/1, Nayapalli, Bhubaneswar, Odisha, Pin - 751013.

1.3 NINL & NALCO, as leaders in their respective areas have agreed for jointly promoting a Joint Venture Company (JVC), under the provisions of Companies Act, 2013 for setting up a Coal Tar Distillation Plant at Kalinga Nagar Industrial Complex, Duburi, Distt. – Jajpur, Odisha, Pin-755026 based on the Coal Tar generated in the existing Coke Oven Plant of NINL.

Duburi is situated approximately 12 Kms from Jajpur Keonjhar Road Rly. Station and is approximately 100 Kms from Bhubaneswar, Odisha.

2.0 OBJECTIVE OF THE EOI:

The objective of this Expression of Interest (EOI) is to identify competent & eligible agencies to select and provide state of the art technology, Design & Engineering and Installation of Coal Tar Distillation Plant. Interested competent agencies meeting the

qualification criteria as per para 3.1 are invited to submit their Expression of Interest as per the details mentioned herein.

The broad Technological parameters and available facilities for the proposed project is enclosed at **Annexure – I** for reference.

3.0 INVITATION OF PROPOSAL:

With a view to maintain uniform proposal structure from all the agencies and also for facilitating evaluation of the proposals, the interested agencies are requested to furnish their proposal in the format as outlined below:

- a) Covering Letter of submission of their proposal
- b) Organization Profile:

The agency is required to furnish details pertaining to company formation, legal status, place of registration, principal place of business of the company, number of years in the relevant business etc. Organization structure along with qualification & experience of key personnel may be provided.

- c) Documents in support of meeting Qualification Criteria as mentioned below:

3.1 QUALIFICATION CRITERIA

Agencies intending to submit their expression of interest are expected to meet the pre-qualification requirement as stated hereunder.

i. Financial

The agency should be financially sound, which would be judged from their audited account of past three financial years. The Net worth and financial performance should commensurate with the volume of operation being proposed under this invitation. Net worth of the agency during last financial year should be **positive**. The average annual financial turnover of the intending bidder during last three financial years should be at least **Rs.30.00 Crores**.

ii. Technical

The Agency must have carried out

- i. Providing Technology, Design & Engineering, Supply of equipment, Erection and commissioning, Ensuring guarantee of performance parameters of Coal Tar Distillation units on turnkey basis
or
- ii. Providing Technology, Design & Engineering, Supply of equipment, supervision of Erection, commissioning and Ensuring guarantee of performance parameters of Coal Tar Distillation units.

for at least two numbers of Coal Tar Distillation Plant in India having production capacity of minimum 20,000 MTPA of Liquid Coal TAR Pitch along with other byproducts. Such a plant should be in continuous & successful operation for the past 2 years.

Agency may also submit any other additional information they desire to furnish on their own to supplement capabilities.

3.2 OUTLINE OF THE PROPOSED PROJECT (PROPOSAL).

Agency is expected to furnish a brief on production of Coal Tar Pitch and other by-products which should comprise of the technology proposed, a process flow diagram, brief description and broad performance parameters of the plant to meet the specification of CT Pitch (Liquid) as per para 5.0 of Annexure-I.

3.3 DOCUMENTS REQUIRED TO BE SUBMITTED:

- i) Details of meeting the qualification criteria as mentioned at Para above to be submitted as per the enclosed format (Annexure – II).
- ii) Annual Report and Audited Accounts of the latest financial year.
- iii) Brief description on the proposal as per para 3.2

4.0 SUBMISSION OF EOI:

- 4.1** Interested Agencies are requested to prepare their EOI in accordance with requirement as mentioned above. The language of the proposal shall be “English”. The proposal along with all information and requisite documents

should be delivered through post or courier in printed format at the following address latest by **5 PM of 11th July 2018**.

Dy. General Manager (Commercial)
Neelachal Ispat Nigam Limited.
Kalinga Nagar Industrial Complex, Duburi
Dist: Jajpur, Odisha. Pin – 755026
Tel: (06726) 264051, Cell: 09437171768

- 4.2** Clarification, if any can be asked from Mr. S. S. Sahu), Dy. General Manager (Commercial), Neelachal Ispat Nigam Limited through Mobile: 09437171768 or E-mail sahuss@ninl.in.

5.0 NO CONTRACT OBLIGATION:

NINL is not bound contractually or in any other way to any bidder to this EOI. Further, NINL reserves the right to accept or reject any application, or all applications and /or cancel the process at any time without assigning any reason whatsoever and without thereby incurring any liability to the affected applicants.

- 6.0 DISCLAIMER:** The issue of this document does not in any way commit or otherwise oblige NINL to proceed with all or any part of this EOI process. The EOI request is not the subject of any process contract or any contractual obligations between NINL and bidder. NINL may, at its absolute discretion, elect to abandon any part or whole of the process without giving prior notice to the prospective bidder.

(S S Sahu)
Dy.General Manager (Commercial)
Neelachal Ispat Nigam Limited

Encl: Annexure – I & II

TECHNOLOGICAL PARAMETERS AND AVAILABLE FACILITIES

The proposed site for Coal Tar Distillation Plant is in close vicinity of existing By-product plant of 7.0 m tall Coke Oven Battery located inside plant boundary of Neelachal Ispat Nigam Limited (NINL) in Duburi of Jajpur District of Odisha. All basic infrastructure facilities are already available inside the steel plant.

1.0 DESIGN BASIS

The proposed Tar Distillation Plant shall be designed on following basis.

- i) Pretreatment unit of Crude Tar including effective removal of tar & sludge and less consumption of steam
- ii) Tar Distillation Unit
- iii) Pitch Processing and loading unit
- iv) PCM Unit & other by-product units
- v) CT pitch & by-products storage & loading Unit
- vi) Laboratory for testing of important parameters (such as density of fractions, softening point, viscosity of pitch etc) of CT pitch & by-products.
- vii) Flow measurement of Crude tar & utilities.

2.0 Design Capacity

The rated design capacity of the proposed Tar Distillation Plant shall be as follows:

- a) Crude Tar: 39420 TPA i.e. 108 TPD considering crude tar availability from one no. 7 m tall Coke Oven battery operating at rated capacity in NINL i.e. 100 pushing per day
- b) Liquid CT Pitch: 20, 000 TPA considering 330 working days a year
- c) By products as per para 4.0 of Annexure-I

3.0 Specification of feed stock

The main feed stock Crude Tar (-150 °C cut) have following specification.

QUALITY OF CRUDE TAR	
Parameter	Value
Sp GR. /30°C	1.18-1.85
% H ₂ O	2.3-2.6
%TI	7.9-8.2
%QI	2.4-2.6
%BR	5.3-5.7

4.0 Tentative yield of various tar fractions and naphthalene content Distributionis as follows:

Sl. No.	Product	Yield %
1.	Dehydrated Tar	100
2.	Light fraction	2
3.	Phenolic fraction	2
4.	Naphthalene fraction	9
5.	Cresote Oil	16
6.	PCM	19
7.	Pitch	52

5.0Specification of CT Pitch (Liquid):

PARAMETERS	UNIT	SPECIFICATION	METHOD USED
Softening Point (Mettler)	deg.C	107.0 - 113.0	METTLER S.P. Apparatus
Coking Value (Alcan)	%	55 min	ALCAN
Viscosity: A5 140 deg C At 160 deg C	cps cps	20,000 max 3,000 max	BROOKEFIELD VISCOMETER
Quinoline Insoluble (QI)	%	5.0 - 11.0	Chemical Method
Toluene Insoluble (TI)	%	-	Chemical Method
#Beta Resin (TI - QI)	%	20.0 min	Calculation
Density	g/cc	1.30 min	ACCUPYC Apparatus
C/H in Pitch	-	1.73 min	LECO CHN ANALYSER
C/H in Alpha Resin	-	3.50 min	-DO-

Ash	%	0.50 max	Weight Difference after ignition
Sulphur (S)	%	0.60 max	XRF
Water (Moisture) (For Solid Pitch only)	%	0.50 max	Dean & Stark Apparatus
Sodium (Na)	%	0.035 max	XRF/AAS
Calcium (Ca)	%	0.010 max	XRF/AAS
Mesophase: An Optical Microscopy must not show the presence of mesophase of size bigger than 10 micron.			ASTM:D 4616
#This parameter is given only for calculation of Beta Resin XRF - X-Ray Fluorescence Spectrometer AAS - Atomic Absorption Spectrophotometer			

6.0 Utilities

Following utilities (as per the parameters mentioned therein) are available at the battery limit of proposed plant.

Steam

Pressure : 3.5 – 4.0Kg/cm²(g)
Temperature : 140-180 °C
Quantity : 3 t/hr

Circulating Cooling Water

Pressure – Supply : 6.0 Kg / cm²(g)
Return : 2.5 Kg/cm²(g)
Quantity : 225 m³/hr

Electric Energy

Frequency : 50 Hz
Phases : 3 Phase
Substation : 415V LT

Fuel Gas for Pipe-Furnace (Coke Oven Gas)

Pressure : 550-650 mm WC
Temperature : 35-42 °C
Quantity : 750 m³

Nitrogen

Pressure : 4.5 kg/cm²(g)
Temperature : 30-40 °C
Quantity : 150 m³/hr

Dry Compressed Air

Pressure : 4.7 Kg/ cm²(g)
Temperature : 35-42 °C
Quantity : 60 m³/hr

FORMAT FOR QUALIFICATION CRITERIA**a) Financial:**

The interested bidders must submit audited account for the financial years 2015-16, 2016-17 & 2017-18

Sl. No.	Financial year	Turnover (Rupees in crores)	Net worth (Rupees in crores)
1	2015-16		
2	2016-17		
3	2017-18		

The audited account must satisfy financial qualification criteria mentioned in para 3.1.

b) Technical:

Sl. No.	Details of Coal Tar Distillation Unit Supplied, Installed and commissioned (Name, place, year of commissioning)	Name of Technology provider	Type of distillation adopted	Capacity (in Tonnes Per Annum)	Date of completion of the project	Whether in satisfactory operation as on the date of submission of EOI	Approx. cost of the project	Name of the Client

c) Brief description on the project proposal