



National Aluminium Company Ltd.

(A Govt of India Enterprise)

Nalco Bhawan, Plot No P-1, Nayapalli,

Bhubaneswar-751013

REQUEST FOR EXPRESSION OF INTEREST

EOI for Inviting vendors capable of setting up of pilot scale aluminium alloy development and casting facility at NALCO Research & Technology Centre , Bhubaneswar

EXPRESSION OF INTEREST

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Sub : Expression of Interest for Inviting vendors capable of setting up of pilot scale aluminium alloy development and casting facility at NALCO Research & Technology Centre , Bhubaneswar

1.0 NATIONAL ALUMINIUM COMPANY LIMITED – AN INTRODUCTION:

- 1.1** National Aluminium Company (NALCO) was incorporated in 1981 as a Public Sector Company under Ministry of Mines, Govt. of India. NALCO is Asia’s largest integrated Aluminium complex having Bauxite Mines, Alumina Refinery, Aluminium Smelter and Captive Power Plant situated in the state of Odisha along with Port Facilities at Vishakhapatnam in Andhra Pradesh.
- 1.2** The Company has charted an excellent track record in both physical and financial performance. The products of the Company are registered in the LME (London Metal exchange). The company has been conferred the “Navaratna” status by the Govt. of India, in recognition of its consistent outstanding performance over the years.
- 1.3** NALCO’s R&D Centre named NALCO Research & Technology Centre (NRTC) has been set up at Gothapatana, Bhubaneswar with a vision to have world class, state of the art research and development facilities to enable NALCO to achieve excellence in process, product and technology in the field of Bauxite, Alumina, Aluminium and allied areas. The mission of the centre is to develop and strengthen technology expertise pertaining to Bauxite, Alumina and Aluminium in the next five years which will enable NALCO to be self-sustained in the field of bauxite mining, alumina refining and aluminium smelting technology.

2.0 INVITATION OF APPLICATION FOR SHORT LISTING OF VENDORS:

- 2.1** NALCO intends to set up a pilot scale aluminium alloy casting facility at its Research & Technology Centre for development of new aluminium alloys vis a vis production of master alloys/strategic alloys, with required facilities as relevant.

- I.** Laboratory model Induction Melting furnace of suitable size for **lab scale** experiments and studies on development of aluminium alloys. The furnace should have operating facilities with inert gas, vacuum, air with required control systems.
- II.** Induction Melting Furnace of suitable capacity for **pilot scale** production equipped with all necessary electrical, mechanical & instrumentation/automation arrangements including dross skimming device, degassing facility and vacuum/inert gas facility.

Both I & II equipment can be used for:

- a) Development and production of aluminum alloys i.e. Aluminium-Lithium alloys/Aluminium-Scandium alloys/Aluminium-Beryllium alloys/Aluminium-Magnesium alloys.

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b) Development and production of Aluminium **Master Alloys** e.g. AL-Cu, Al-Bi, Al-B, Al-Si, Al-Zr, Al-La etc.

- III. Aluminium ingot casting machine /Aluminium alloy Billet and Slab casting systems/Aluminium alloy Sheet Rolling facility of suitable capacity along with heat treatment/ homogenization systems **compatible to II.**
- IV. Required testing facilities.

The bidder may suggest the appropriate size/capacity for each unit of the Lab.furnace and above pilot scale facilities that would help us in development as well as pilot production of various alloys of aluminium. All units of this integrated aluminium alloy casting facility should be technically compatible to each other and the system should be capable to handle solid aluminium metal/alloy in any form.

2.2 The objective of the present EOI is to invite interested bidders to quote for the pilot scale facilities, which will help in freezing the requirements and shortlisting of qualified bidders for further course of action in setting up of the pilot plant at NRTC.

2.3 The broad scope of this EOI is to obtain offers from Reputed bidders for following:

- I. Providing technical specifications for all segments of the proposed pilot scale Aluminium and its alloy melting, casting and rolling facilities including the heat treatment and homogenization facilities proposed to be set up at NRTC along with the budgetary offer with **item wise cost break-up** for supply items, installation and commissioning. Technical assistance for training, development and production of saleable master alloys as at 2.1 (b) and other alloys as at 2.1(a) through the facility for a period of 3 years from the date of commissioning, extendable for another 2 years depending on Nalco's need.
- II. Technical assistance for research & development on aluminium alloys not specified at 2.1 for a period of 3 years from the date of commissioning, extendable for another 2 years depending on Nalco's need.
- III. Maintenance service support for a period of 3 years from the date of commissioning, extendable for another 2 years depending on Nalco's need.
- IV. Installation and commissioning of all equipment, including all Civil, Electrical & Control & Instrumentation works.
- V. Identification of testing & measurements requirements.
- VI. Assuring supply of spares required for the period of 15 yrs.

2.4 Qualification criteria for consideration of the proposal:

The bidders intending to participate in this tender shall fulfill the following qualification Criteria:

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- I. The Vendor must have supplied, commissioned or completed performances of at least one R&D pilot scale aluminium alloy casting system as described in this EOI anywhere in the world during the last 15 years from the date of floating of EOI.
- II. The said project must have been completed and or in operation anywhere in the world. Supporting documents to this effect may be submitted.
- III. Bid could be submitted through a Consortium or Association also. In such case, one of the bidders of the Consortium applying for the EOI must have executed or involved/responsible for the supply/design engineering and commissioning of a similar pilot scale project brought out in this EOI. A copy of consortium agreement to be submitted along with the bid.
- IV. The vendor should submit previous experience for documentary evidence & client details as per formats enclosed in Annexures.
- V. The firm should be financially sound, which would be judged by their latest audited accounts. The net worth should be positive during the last accounting year (documentary evidence to be provided).

3.0 BIDDING TERMS

3.1 Conditions under which this EOI is issued

- I. This EOI is not a commercial offer and is issued with no commitment. NALCO reserves the right to withdraw the EOI in the best interest of the organization and change or vary any part thereof at any stage. NALCO also reserves the right to disqualify any bidder, should it be so necessary at any stage.
- II. The Term of Reference given above is for enabling the bidder to submit their response for EOI. This TOR (Term of Reference) in no case is to be presumed as final for Request for Quotation (RFQ). Technical discussion and deliberations will be held with short listed parties so as to decide upon the final term of reference/technical specification in line with the requirement of the project. Modalities and time for the discussion will be intimated to the short listed parties at a later date. Based on the discussion with the short listed parties a detailed and elaborate TOR will be prepared covering all aspect of the project. The Short-listed bidders would be issued formal tender enquiry/Request for Quotation inviting their technical and commercial bids with final TOR.
- III. Timing and sequence of events resulting from this EOI shall ultimately be determined by NALCO.
- IV. No oral conversations or agreements with any official, or employee of NALCO shall affect or modify any terms of this EOI and any alleged oral agreement or arrangement made by a bidder with any department, official or employee of NALCO shall be superseded by the definitive agreement that results from this EOI process. Oral communications by NALCO to bidders shall not be considered

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binding on NALCO, nor shall any written materials provided by any person other than authorized person from NALCO.

- V. Neither the bidder nor any of the bidder's representatives shall have any claims whatsoever against NALCO or any of their respective officials or employees arising out of, or relating to this EOI or these procedures (other than those arising under a definitive service agreement with the bidder in accordance with the terms thereof).
- VI. Bidders may seek any clarification from NALCO before submitting their proposal in writing/ through email only, from the authorized person.

3.2 Availability of EOI documents:

The bidders may go through the EOI document for an overview of the scope of work, bidder's qualification criteria, other bidding terms and conditions etc.

- I. Bidders should download the complete set of EOI documents which is available in the NALCO website www.nalcoindia.com. EOI documents are also available in the website www.eprocure.gov.in.
- II. Bidders are requested to visit the above websites regularly for corrigendum towards any modification/ addition/ bid due date extension etc. for this EOI, since the same shall not be published in newspapers.

3.3 Rights to the content of the proposal

For all the bids received before the last date and time of bid submission, the proposals and accompanying documentation of the proposal will become the property of NALCO and will not be returned after opening of the pre-qualification proposals.

3.4 Acknowledgement of understanding of terms

By submitting a proposal, each bidder shall be deemed to acknowledge that it has fully understood the requirements of Nalco and informed itself as to all existing conditions and limitations.

3.5 Language of proposals

The proposal and all correspondence and documents shall be written in English.

4.0 PREPARATION/ SUBMISSION OF EOI

Interested applicants are requested to submit their application in a format as outlined below in order to achieve the objectives of maintaining uniform application structure for all the applicants:

Part- I – Covering Letter

Covering Letter from the Bidder as per the format provided in Annexure – Form I

Part - II: Organisation profile.as per Annexure – form II

Part III- The information regarding fulfillment of technical criteria as per Annexure form III.

5.0 INSTRUCTION TO APPLICANTS

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- 5.1 Applicants are expected to examine carefully the contents of all the documents provided. Failure to comply with the requirements of EOI will be at the applicant's own risk.
- 5.2 It would be deemed that prior to the submission of the application, the applicants:
 - I. Made a complete and careful examination of requirements and other information set forth in this EOI request document.
 - II. Received all such relevant information as it has requested from NALCO.
- 5.3 NALCO shall not be liable for any mistake or error by the applicant in respect of the above.
- 5.4 The applicant shall bear all costs associated with the preparation or delivery of its application.
- 5.5 The applicant shall not disclose confidential information to any third party without prior written approval of NALCO.
- 5.6 NALCO reserves its right to call for original of the supporting documents for verification if so deemed fit and also cross-check for any details as furnished by the applicant from their previous clients etc. The applicant shall have no objection whatsoever in this regard.
- 5.7 The applicant shall submit an undertaking that there is no pending court cases or otherwise on them by the Govt. or Govt. Depts. / Statutory authorities which might infringe upon their rights to participate in such empanelment with a CPSE.
- 5.8 NALCO reserves the rights to make use of available data for evaluation of the application that have been submitted against this request.
- 5.9 The applicants may note that mere submission of application shall not entitle automatic qualification of the EOI application.
- 5.10 Telefax/ E-mail/ CD may not be accepted unless accompanied by formal signed documents. NALCO takes no responsibility for delay, loss or non-receipt of document sent by Post/Courier.
- 5.11 NALCO reserves the right to accept or reject any application and to annul the EOI process and reject all applications at any time without thereby incurring any liability to the affected applicant(s) or any obligation to inform the affected applicant(s) of the grounds for the NALCO's action.
- 5.12 The application for EOI complete in all respect should be sent to the office of the

**Dy. General Manager (R&D), Corporate Office,
NALCO Bhavan, P-1, Nayapalli, Bhubaneswar -751013
Phone: +91 9437022419, Email: binuta.patra@nalcoinda.co.in**


on or before **20.12.2018 , 12:00 PM IST.**

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Bidders from outside India intending to participate in this EOI may submit an advance copy of signed bid through email to DGM (R&D). Documents received through email on/before due date shall be accepted by NALCO. However the final acceptance of the bids will be based on the hard copies of the documents received by NALCO.

- 5.13** Any applicant requiring any clarification on the terms and conditions for this EOI request document may notify NALCO in writing or facsimile or e-mail. The applicants must send their queries at least 7 days prior to the last date for submission of application only in the address mentioned at clause 5.12. Correspondence sent to any other person/address may not be accepted.
- 5.14** Post application correspondences may be made over e-mail only to DGM (R&D) at the above address. The applicants are advised to furnish authorize e-mail id along with an alternative e-mail for all communications. Mail received from the authorized or the alternative mail ids shall only be accepted. All correspondence/enquiry should be submitted to the following in writing by fax/ post/ courier/e-mail: **binuta.patra@nalcoindia.co.in**.
- 5.15** On receipt of the proposals of EOI from the bidders the same shall be scrutinized/evaluated by NALCO. The shortlisted vendors, who are prima facie considered capable of executing the proposed work may be invited for technical discussions / presentations. During these technical discussions stage the agency may add those other stake holders in the discussions who could add value to the discussions. The agencies may be allowed to present their credentials/capability to undertake the job. During the meeting, NALCO shall seek all relevant technical details from all such parties who can undertake similar jobs in order to finalize the Technical Specifications & Evaluation Criteria.

Once the technical specifications and evaluation criteria are finalized, the second stage of tendering would consist of calling for techno commercial bids.

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FORM I: COVERING LETTER

[Date]

(Company letterhead)

To,

DGM (R&D), Corporate Office
 NALCO BHAVAN, PI, Nayapalli
 Bhubaneswar - 751013.

Ref: Expression of interest for setting up of pilot scale aluminium alloy casting facility at NRTC, BBSR.

Dear Sir,

Having examined the Expression of Interest (EOI), I/we, the undersigned, on behalf of our company intend to participate in the above mentioned Project and submit qualification requirements proposal in response to the Expression of Interest (EOI) for the said project. We attach hereto the response as required by the EOI, which constitutes our proposal. Primary and Secondary contacts for our company are:

	Primary Contact	Secondary Contact
Name:		
Title:		
Company Name:		
Address:		
Phone:		
Mobile:		
Fax:		
E Mail:		

I/We confirm that the information contained in this response or any part thereof, including its exhibits and other documents is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead NALCO in its short-listing process. We fully understand and agree to comply that on verification, I/We also understand that incorrect information furnished in this process shall render the bid/ order liable for rejection at any stage of evaluation/ work execution. Our Company agrees for acceptance of all the terms and conditions set out in the EOI document. It is hereby confirmed that I/We are entitled to act on behalf of our company/ corporation/ firm/ organization and empowered to sign this document as well as such other documents, which may be required in this connection.

Dated this.....Day of.....2018

(Signature) and Seal of Company (In the capacity of) (Name)

(Name)

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Annexure-Form-II

General Profile of the Company

1. **Name of firm**
2. **Head office address**
3. **Telephone** **Contact Person:**
4. **Fax** **Email ID:**
5. **Place of incorporation / Year of incorporation / registration** **registration**
6. **Company brief**

Signature of Bidder

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Form III For Technical Criteria

<i>Client's Name</i>			
<i>Address</i>			
<i>Tel. No.</i>			
<i>Fax</i>			
<i>E-mail</i>			
<i>Name of Contact person</i>			
Project Location			
Copy of Purchase Order to its supplier enclosed:			
Yes/ No			
Month & year of Commissioning of R&D aluminium alloy pilot plant anywhere in the world			
Bidder's Scope of supply and Services in the cited project (certificate from the user)			
Consortium partner or associate scope if any			