



## **OIL INDIA LIMITED**

(A GOVERNMENT OF INDIA ENTERPRISE)

And



## **NUMALIGARH REFINERY LIMITED**

(A GOVERNMENT OF INDIA ENTERPRISE)

### **EXPRESSION OF INTEREST (EOI)**

**FOR**

### **PRE- QUALIFICATION OF BIDDERS TO PROVIDE TECHNOLOGY AND INSTALL A PLANT FOR CONVERSION OF WASTE PLASTIC TO HYDROCARBON FUELS ON BUILD, OPERATE & MAINTAIN MODEL**

(EOI Document No. : COMM/C22/2370)

OIL INDIA LIMITED  
P.O. Duliajan, Dist. Dibrugarh  
Assam-786 602

NUMALIGARH REFINERY LIMITED  
Numaligarh, Dist. Golaghat  
Assam-785699

## **Press Advertisement**

 <p>ऑयल इंडिया लिमिटेड (भारत सरकार का उद्यम) <b>Oil India Limited</b> (A Government of India Enterprise) <i>Conquering Newer Horizons</i></p>	 <p><b>Numaligarh Refinery Limited</b></p>
<p style="text-align: center;"><b><u>Expression of Interest</u></b></p> <p>Name of the Job : Provide Technology and Install a 10 TPD plant for conversion of Waste Plastic to Hydrocarbon Fuels, at Guwahati (Assam), on Build, Operate &amp; Maintain (BOM) Model.</p> <p>The project shall be executed jointly by Oil India Ltd. (OIL) and Numaligarh Refinery Limited (NRL), as a CSR initiative.</p> <p>For details of complete EOI (no. COMM/C22/2370), interested parties may refer to respective websites of OIL and NRL (<a href="http://www.oil-india.com">www.oil-india.com</a>; <a href="http://www.nrl.co.in">www.nrl.co.in</a>)</p>	
<p><b>Due date and time for submission of EOI: 19/06/2015, 15:00 Hrs</b></p>	

## **INVITATION FOR EXPRESSION OF INTEREST**

### **1 INTRODUCTION**

Oil India limited (OIL), a Navratna Company under the Ministry of Petroleum and Natural gas, Government of India, is a premier National Oil Company engaged in the business of Exploration, Production and Transportation of Crude Oil and Natural Gas.

Numaligarh Refinery Limited (NRL) is a group company of Bharat Petroleum Corporation Limited operating a 3.0 MMTPA capacity petroleum refinery located at Numaligarh in Golaghat district of Assam. NRL is a Category-I Miniratna Company and is certified under ISO 9001, ISO 14001, OHSAS 18001 and ISO 27001. Commercial operations of NRL commenced from October 2000.

OIL and NRL being responsible corporate citizens have always endeavoured to build a sustainable environment. As a part of CSR activity, OIL and NRL have joined hands for deployment of technology for safe disposal and chemical recycling of waste plastics generated in the city of Guwahati.

OIL and NRL shall together fund the project for Installation of Plant & Equipment and commissioning of the Waste Plastic to Hydrocarbon Fuel conversion plant to the selected Bidder.

### **2 BRIEF SCOPE OF WORK**

OIL and NRL plans to set up a Waste Plastic to Hydrocarbon Fuel conversion plant at Guwahati City, in the state of Assam. The purpose of putting up the plant is to carry out effective disposal of the city waste plastics and produce hydrocarbon fuels out of it without affecting the environment and violating the statutory environmental norms. For this purpose, OIL and NRL invites Expression of Interest (EOI) for pre-qualification from reputed technology providers having bench scale and commercially proven Waste Plastic to Hydrocarbon Fuel technology to supply, install, operate and maintain the plant on Build, Operate & Maintain (BOM) Model. The scope of which includes basic design package, detail engineering, equipment,

segregating and maintaining quality feedstock for continuous operation of the plant.

The scope of the work broadly includes:

- i. Coordination with the local municipal body (Guwahati Municipal Corporation) for collection/segregation of waste plastic from the Municipal solid waste by Mechanical/Manual process and establishing the supply chain for uninterrupted/continuous operation of the plant.
- ii. Pre-treatment of waste plastics before processing in plant, if any. (e.g.: Shredding, Dust removal, Moisture removal, etc) should be taken care by the Technology provider.
- iii. Supply of catalyst, chemicals and other consumables required for the plant.
- iv. Getting the required statutory licenses and approvals from the Pollution control boards, Explosives Inspectorate, Excise and any other authority, as applicable.
- v. Installation and commissioning of the 10 TPD Waste Plastic to Hydrocarbon Fuel Plant with all the required utilities (viz. Electric power, cooling water, process water, etc)
- vi. Power required for uninterrupted operation of the plant maybe met from the gaseous/liquid/solid products from the plant itself. Alternatively, the plant should have captive power provisions for emergency backup.
- vii. Employing Skilled/Semiskilled Manpower for operation and maintenance of the plant, as per the prevailing Regional labour laws.
- viii. Storage Systems for safe handling of the Raw materials (Waste plastics, chemicals, consumables etc), Products (Liquid, Gases, Solids) and safe disposal of residuals, if any.
- ix. Effluent disposal system as per environmental norms (e.g.: Scrubbing, Incinerators, ETP, any other)
- x. Operating the unit on **sustainable** basis for a period of minimum 15 years.
- xi. Guarantee of the plant in terms of its equipment, operability, product quality and quantity should be provided.
- xii. Cost of collection, segregation of plastic wastes, operation and maintenance of the plant should be met from the revenues generated on selling the products.
- xiii. Bidder shall be responsible for marketing and sale of end products to identified registered/authorised end users/vendors.
- xiv. The product quality has to be ensured so that a good proportion of the liquid product can be blendable into transportation fuel / fuel oil meeting the BIS specification of transportation fuel / fuel oil or the whole product can be used as transportation fuel / fuel oil (meeting the respective BIS specification).
- xv. The Bidder should submit details regarding the usage of end product with documentary proof.

### **3 ELIGIBILITY CRITERIA**

#### **3.1 Technical Criteria**

- i. The Offered Waste Plastic to Hydrocarbon Fuel conversion technology shall have at least one proven operating plant with a feed waste plastic processing capacity of minimum 10 TPD operating successfully on continuous basis in India for a minimum period of one year. The Bidder should provide a proof of the proven technology and commercial scale of the plant operating on the technology that is offered in the bid.
- ii. Prior Experience of Coordination with the local municipal bodies for collection/segregation of waste plastic from the Municipal solid waste by Mechanical/Manual process and establishing the supply chain for uninterrupted/continuous operation of the plant and disposal of the final end product.
- iii. The Technology and the process should follow the prevailing statutory and environmental norms.

#### **3.2 Financial Criteria**

- i. Net worth of the company should be positive as per the immediate preceding year's audited financial results
- ii. The Technology provider shall also furnish complete audited annual financial year statements including balance sheets, profit & loss account statement and all other schedules of immediate preceding financial year, self-certification of being not under liquidation, court receivership or similar proceeding in support of their fulfilling the eligibility criteria.

### **4 GENERAL**

- i. The Technology Provider must not have been debarred/ blacklisted by any Govt. Department/PSUs/Institutions/Agencies/Autonomous organizations. The Licensor shall submit a self-certification by an authorized person to this effect.
- ii. EOI shall be submitted in hard copies in the Tender Box at the address given below. EOI received through Fax / E-mail shall not be accepted.
- iii. OIL and NRL reserves the right to reject any or all EOI received without assigning any reason.
- iv. OIL and NRL reserve the right to assess Bidder's capabilities and capacity to execute the work using in-house information and by taking into account other aspects such as concurrent commitments and past performance.

- v. Identifying/leasing/acquiring the site for setting up the plant would be facilitated by OIL and NRL in consultation with Local Administration. However, any lease rental costs would be on Bidder's account.
- vi. The EOI must be complete in all respect leaving no scope for ambiguity. It is in the interest of the bidder to submit complete and comprehensive proposal leaving no scope for OIL and NRL to raise any further questionnaire. OIL and NRL may evaluate the vendor on the basis of documents submitted in the first instance in order to adhere with project schedule requirement.
- vii. The Technology provider shall submit the following for expressing their interest:-
  - a) Cover letter giving brief introduction and expressing interest to participate in the bidding process.
  - b) Information details & pre-qualification criteria as per the Annexure along with supporting documents such as copies of the work order, contract agreement, completion certificate etc.
  - c) Financial Details along with all the requisite documents such as audited balance sheet, profit and loss statements for immediate preceding financial year.
- viii. OIL and NRL reserves the right to call for original of the documents submitted for verification, if required and also to cross check any details as furnished by the licensors from their previous clients/consultants. The bidder shall have no objection whatsoever in this regards and shall facilitate OIL and NRL to obtain the same.
- ix. The participating bidder shall make a presentation on their offer to the evaluating team of OIL/ NRL at a suitable date and venue (To be notified in due course).
- x. OIL and NRL will not be responsible for any cost or expenses incurred by the Bidder in connection with preparation, submission or delivery, discussions and presentation, in response to the EOI.
- xi. All revisions, clarifications, corrigenda, addenda, time extensions etc., to the EOI will be hosted on [www.oil-india.com](http://www.oil-india.com) and [www.nrl.co.in](http://www.nrl.co.in). Bidders should regularly visit the above websites to keep themselves updated.

## **5 DOCUMENTARY EVIDENCE**

The Bidder must submit documentary evidence to support the reference provided herein for fulfilling the Technology criteria as specified. The following are the minimum documents required:

- Details of the reference unit including the details of the contact Person(s).
- Extract of Technology/license agreement or relevant document as a proof of the same.

- Certificate from the user of the plant (on their letterhead) to detail out the following:
  - I. Capacity of the unit in terms of:
    - a. Number of plants, type (Continuous, Batch, etc.) and its location.
    - b. Capacity of the plant in terms of the waste plastic feed to the plant (MT/day).
    - c. Approx. Capex & Opex of the plant.
    - d. Quality and quantity of waste plastic material required.
    - e. Details of the value added end product, its current and targeted customers.
    - f. Amount of the waste generated in the process and their disposal.
    - g. Fire and Safety measure adopted.
    - h. Various end products produced and their specifications
  - II. Date of plant commissioning.
  - III. Statutory clearance from all concerned authorities.
  - IV. Technology involved highlighting the following
    - a. Conversion Process i.e. Catalytic conversion, Pyrolysis, etc
    - b. Waste plastic pre-treatment processes
    - c. Technology patent details, if any
    - d. Commercial performance of the unit for at least one year indicating plant load (average & highest), major operational problems, and reasons of shut down if not operating correctly
    - e. Performance Guarantee parameter and confirmation on meeting guaranteed performance satisfactorily

## **6 MODE OF SELECTION**

- a) Offers from interested agencies shall be scrutinized and shortlisted based on qualifying criteria specified in EOI.
- b) Detailed Tendering will be done among qualified agencies from the EOI. Offers, thus obtained, would be evaluated as per laid down procedure to select the agency for execution of the job.

## **7 SUBMISSION OF EOI**

The Bidder is required to submit the complete proposal/EOI document along with all the supporting document duly signed and stamped on each page, in the Tender Box kept at the following address well in advance of the due date and time in a sealed envelope superscripting EOI no., Party's name, address and Due Date/time:

**Numaligarh Refinery Limited**  
**122A, G. S. Road, Christian Basti**  
**Guwahati 781005, Assam**

Proposal/ EOI submitted at any other place is liable to be rejected.

**EOI shall be opened on the Due date @ 1530 Hrs at our above address.**

Clarifications (if any) can be obtained from either of the following:

Shri J. B. Sarma  
Sr. Manager-HR, NRL  
Email: jyoti.sarma@nrl.co.in  
Tel: 0361-2203130

Shri S. Purohit  
Dy. Suptg. Research Scientist, OIL  
Email: subodh\_purohit@oilindia.in  
Tel: 0374-2806331

## **8 DISCLAIMER**

- a) The EOI does not constitute an invitation of offer in relation to the aforesaid work. This is not a contract or agreement of any kind whatsoever.
- b) There may be deviations or changes in any of aforementioned information during awarding of the contract for execution of the job.
- c) This document does not purport to contain all the information that interested parties would desire or require for submission of their offer. Interested applicant should form their own view as to what information is relevant to such decisions and make their own independent assessment / visits for collection of relevant additional information.



### **Annexure I**

A compliance table is given below to know from the bidders the willingness and information on the above subjects.

Sl. No.	Item Description	Details (Attach Separate Sheets, if required)
1.	Number of Waste Plastic to Hydrocarbon Fuel plant conversion plant setup in India till the date of release of EOI	
2.	Conversion Process (Catalytic/Pyrolysis etc)	
3.	Land requirement for setting up of 10 MTPD waste plastic to fuel plant	
4.	Type of Raw Material (Waste Plastic) which can be processed in the plant	
5.	Details of any pre-treatment required for the raw material	
6.	Details of the catalyst required , if any	
7.	Details regarding final Product from the plant (Solid, liquid, gas) along with the product yield	
8.	Quality of the end products with its test certificate	
9.	Approx. CAPEX & OPEX required for setting up the 10 MTPD plant.	
10.	Utility requirement of 10 MTPD plant.	
11.	Details of the emission and effluents generated from the plant.	
12.	Details regarding Proprietary technology (Patent) of the technology, if any.	
13.	List of all the statutory clearances required to setup conversion plant in Guwahati, Assam	
14.	Cost of the plant (in lacs) on Build, Operate & Maintain (BOM) Model. The scope of which includes basic design package, detail engineering, equipment, segregating and maintaining quality feedstock for continuous operation of the plant for a period of 15 years	
15.	Estimated project schedule and timeline.	

Please provide the description in details for clear understanding. Attach separate sheets, if required

## **Annexure II**

### **Experience sheet**

<b>Client Name</b>	<b>Address</b>	<b>Contact Person &amp; Phone No.</b>	<b>Year of Commissioning</b>	<b>Size of the Plant in TPD</b>

Please provide the description in details for clear understanding. Attach separate sheets, if required

**Annexure III**

**Details of the net worth**

Financial Year	Details of Net Worth			
	Paid up Capital (A)	Free Reserve (B)	Accumulated loss (C)	Net Worth (A+B+C)

Please provide the description in details for clear understanding. Attach separate sheets, if required