

EXPRESSION OF INTEREST (EOI)

**FOR DETAILED ANALYSIS, RE-ENGINEERING, MODIFICATION, SUPPLY AND
INSTALLATION SUPERVISION OF RECOMMENDED EQUIPMENT/PARTS AND
COMMISSIONING OF THE REFRIGERATION PACKAGE OF AUTOMATIC SLABBING
AND PACKING UNIT**



NUMALIGARH REFINERY LIMITED

**Pankagrath, PO: Numaligarh Refinery Project,
District- Golaghat, Assam,
India, 785699**

July, 2018

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NUMALIGARH REFINERY LIMITED
Pankagrang, PO: Numaligarh Refinery Project,
District- Golaghat, Assam,
India, 785699

INVITATION FOR EXPRESSION OF INTEREST

Numaligarh Refinery Limited invites sealed Expression of Interest (EOI) from Indian organizations meeting the pre qualification criteria to participate in tender for detailed analysis, re-engineering, modification, supply and installation supervision of the recommended equipment/parts and commissioning of the refrigeration package of Automatic Slabbing and Packing Unit.

The EOI Document containing the details of qualification criteria, submission requirement, brief objective & scope of work and evaluation criteria etc. can be downloaded from the website www.nrl.co.in

Last date for submission of EOI is **30.07.2018** up to **11:00 A.M.** Sealed envelope marked to the captioned address, containing EOI may be submitted mentioning **“FOR DETAILED ANALYSIS, RE-ENGINEERING, MODIFICATION, SUPPLY AND INSTALLATION SUPERVISION OF THE RECOMMENDED EQUIPMENT/PARTS AND COMMISSIONING OF THE REFRIGERATION PACKAGE OF AUTOMATIC SLABBING AND PACKING UNIT”** on the top cover:

General Manager (Commercial) I/c
Numaligarh Refinery Limited,
Pankagrang, PO: Numaligarh Refinery Project,
District- Golaghat, Assam,
India, 785699

Applicants meeting the qualification criteria may be invited for presentation / proposal before the selection committee of NRL. Only the short listed applicants shall be eligible to participate in the subsequent tender to be evaluated on **“Lowest Offer Basis”**.

Note: NRL or any of its designates reserves the right to cancel this request for EOI and/or invite afresh with or without amendments, without liability or any obligation for such request for EOI and without assigning any reason. Information provided at this stage is indicative and NRL reserves the right to amend/add further details in the EOI.

LETTER OF INVITATION

**Numaligarh Refinery Limited,
Pankagrang, PO: Numaligarh Refinery Project,
District- Golaghat, Assam,
India, 785699**

No. EOI/APSU-Wax/001

Dated: 10.07.2018

Dear Sir/Madam,

Numaligarh Refinery Limited invites sealed Expression of Interest (EOI) from Indian organizations meeting the pre qualification criteria to participate in tender for detailed analysis, re-engineering, modification, supply and installation supervision of recommended equipment/parts and commissioning of the refrigeration package of Automatic Slabbing and Packing Unit.

The EOI Document containing the details of pre qualification criteria, submission requirement, brief objective & scope of work and method of evaluation etc. is enclosed.

The EOI Document is also available on the NRL website www.nrl.co.in

You may submit your responses in sealed envelopes in prescribed format to the undersigned latest by 31.07.2018

**General Manager (Commercial) I/c.
Numaligarh Refinery Limited,
Pankagrang, PO: Numaligarh Refinery Project,
District- Golaghat, Assam,
India, 785699**

Queries if any may be referred in writing to the undersigned, at the above mentioned address or Telephone No. 9435157861 / 9435152011 or at E-mail: manabendra.gogoi@nrl.co.in / diganta.das@nrl.co.in

S. No.	Critical Dates	Date	Time
1.	Publishing Date	10.07.2018	4.30 PM
2.	Document Download Start Date	10.07.2018	4: 30 PM
3.	Document Download End Date	30.07.2018	11:00 AM
4.	Bid Submission Start Date	10.07.2018	4:30 PM
5.	Bid Submission End Date	30.07.2018	11:00A.M
6.	Bid Opening Date	31.07.2018	11:00A.M

Yours faithfully,

G.M (Commercial) I/c.
For & on behalf of Numaligarh Refinery Limited

Encl.: EOI Document.

3.1 Background:

NRL has a capacity of producing 50 TMT of Paraffin Wax and 4.5 TMT of Semi-Micro Crystalline Wax Annually. The liquid wax is moulded into slabs of 5 kilograms and is packed into pallets of 1.35 Tonnes at the Automatic Slabbing Packing Unit (ASPU). There are two cold rooms at ASPU which are to be maintained at a colder environment to obtain an enhanced rate of wax slabs solidification. Two conveyor lines are used to transport the liquid wax inside the two cold rooms respectively. The solidified slabs are then transported and packed in two separate packaging lines. The combined rated capacity of the two conveyor lines is 200 Tonnes per day. The unit remains in continuous operation throughout the day.

4.0 Aims & Objectives:

The objective of the analysis and re-engineering of the Refrigeration package is to achieve greater reliability in terms of performance of the system so as to meet the required design capacity of the plant with optimal modifications in the existing system.

5.0 Venue & Deadline for submission of proposal

Proposal, in its complete form in all respects as specified in the EOI, must be submitted to NRL at the address specified herein earlier. In exceptional circumstances and at its discretion, NRL may extend the deadline for submission of proposals by issuing an amendment to be made available on the NRL website, in which case all rights and obligations of NRL and the vendors previously subject to the original deadline will thereafter be subject to the deadline as extended.

6.0 Validity of Offer:

The offer for EOI as per this document shall be valid for a period of three (3) months initially which may be extended further if required by NRL.

7.0 TERMS OF REFERENCE

The detailed terms of reference are enclosed at **Annexure-I**.

8.0 INSTRUCTIONS TO VENDORS

8.1 The Expression of Interest is to be submitted in the manner prescribed below:-

All information as detailed below is to be submitted in two hard copies in separately sealed envelopes and one soft copy in CD:-

- a) Applicant's Expression of Interest as per Format-1.
- b) Experience of the organization as per Format-2.
- c) List of three (03) experts/ consultants on payroll as per Format-3.
- d) Financial strength of the company as per Format-4.
- e) Additional information as per Format-5.
- f) Declaration as per Format-6.

8.2 EOI Documents have been hosted on the website www.nrl.co.in and may be downloaded from the website.

The vendors are expected to examine all instructions, forms, terms and other details in the EOI document carefully. Failure to furnish complete information as mentioned in the EOI document or submission of a proposal not substantially responsive to the EOI documents in every respect will be at the Vendor's risk and may result in rejection of the proposal.

9. Pre Qualification Criteria:

Following will be the minimum pre-qualification criteria. Each eligible vendor should possess all the following pre-qualification criteria. Responses not meeting the minimum pre-qualification criteria will be rejected and will not be evaluated.

Sl. No.	Pre-Qualification Criteria	Supporting Document
1	The vendor shall have prior experience and proven capabilities in designing, manufacturing, supplying and commissioning of at least 3 nos. Refrigeration packages, at least one should be of minimum 300 TR capacity, to any industry within the last 10 years. Also one system should be performing satisfactorily for the last 03 years from due date of EOI submission.	Copy of Purchase Order/ Work Order with Inspection release note/Delivery challan and End user performance certificate.
2	The Vendor has to be profitable and should not have incurred loss in any of the last 3 consecutive Financial Years (FY 2015-16, 2016-17 & 2017-18)	Format-5 to be certified & validated by Chartered Accountant (CA) of the vendor's organization
3	The vendor shall have at least 03 full time service engineers on its pay rolls	Certificate signed by Authorized signatory
4	The firm should not be blacklisted by any Central Govt. / State Govt. / PSU/Govt. Bodies	Certificate signed by Authorized signatory
5	PAN No. / Service Tax Registration Certificate	Copy of Certificate to be enclosed.

10.0 Evaluation Criteria and Method of Evaluation:

- a. Screening of EOIs shall be carried out as per pre-qualification criteria mentioned in this document and based on verification of testimonials submitted.
- b. Vendors who qualify as per the pre qualification criteria will be provided a brief about the Refrigeration Package of Automatic Slabbing & Packing Unit.
- c. Vendors must visit NRL site at their own cost to have an idea about the refrigeration package and the troubles faced by NRL in the operation and maintenance of the package.
- d. The vendors shall be required to make a presentation to a committee show-casing their proposals.
- e. Only the short listed applicants shall be eligible to participate in an ensuing tender to be evaluated on **“Lowest Offer Basis”**.

11.0 Response:

11.1 Vendors must ensure that their Bid response is submitted as per the formats attached with this document. Special comments on the objectives and scope of the service projected in the enquiry may also be submitted along with the offer.

11.2 Application in sealed cover super scribed, as **“EOI FOR DETAILED ANALYSIS, RE-ENGINEERING, MODIFICATIONS, SUPPLY AND INSTALLATION SUPERVISION OF RECOMMENDED EQUIPMENT/PARTS AND COMMISSIONING OF THE REFRIGERATION PACKAGE OF AUTOMATIC SLABBING AND PACKING UNIT”**.

12.0 Conflict of Interest:

12.1 Where there is any indication that a conflict of interest exists or may arise, it shall be the responsibility of the Vendor to inform NRL, detailing the conflict in writing as an attachment to this Bid.

12.2 NRL will be the final arbiter in cases of potential conflicts of interest. Failure to notify NRL of any potential conflict of interest will invalidate any verbal or written agreement.

12.3 A Conflict of Interest is where a person who is involved in the procurement has or may be perceived to have a personal interest in ensuring that a particular Vendor is successful. Actual and potential conflicts of interest must be declared by a person involved in a Bid process.

13.0 Condition under which EOI is issued:

The EOI is not an offer and is issued with no commitment. NRL reserves the right to withdraw EOI and or vary any part thereof at any stage. NRL further reserves the right to disqualify any vendor, should it be so necessary at any stage.

14.0 Last date of submission of EOI:

The last date of submission of EOI is 30.07.2018 (11:00 A.M.)

Bid Opening Date & Time is 31.07.2018 (11:00 A.M.)

15.0 FORMATS FOR SUBMISSION:

FORMAT – 1

APPLICANT'S EXPRESSION OF INTEREST

To,

**Chief Manager (Mech-Maint) I/c.
Numaligarh Refinery Limited,
Pankagrang, PO: Numaligarh Refinery Project,
District- Golaghat, Assam,
India, 785699**

SUB: SUBMISSION OF EXPRESSION OF INTEREST FOR DETAILED ANALYSIS, RE-ENGINEERING, MODIFICATION, SUPPLY AND INSTALLATION SUPERVISION OF RECOMMENDED EQUIPMENT/PARTS AND COMMISSIONING OF THE REFRIGERATION PACKAGE OF AUTOMATIC SLABBING AND PACKING UNIT

Dear

In response to the Invitation for Expressions of Interest (EOI) published for the above purpose, we would like to express interest to carry out the above proposed task. As instructed, we attach 2 sets of the following documents in separately sealed envelopes and one soft copy:

1. Vendor Details (Format-2)
2. Experience in related fields (Format-3)
3. List of service engineers on payroll at least 3 (Format-4)
4. Financial strength of the organization (Format-5)
5. Additional information (Format-6)
6. Declaration (Format-7)

Sincerely Yours,

Signature of the applicant

[Full name of applicant]

Stamp.....

Date:

Encl.: As above.

Note: This is to be furnished on the letter head of the organization.

FORMAT – 2

Past Experience Details					
Overview of the past experience of the Organization related to the supply of Refrigeration packages					
Sl. No	Items	Number of Orders executed during last 10 Years	Order Value of each order in Lakhs of Rs. (Enclose copy of each order)	Mention the name of Client/ Organization	
1	Experience in carrying out similar works				
1.1	Experience In carrying out similar Similar assignments in Public sector.				
1.2	Experience In carrying out Similar assignments in Private sector.				
Signature of the applicant Full name of applicant Stamp & Date					

FORMAT – 3

List of service engineers on payroll (at least 3)				
S. No	Name	Designation	Qualification	Relevant Experience
1.				
2.				
3.				
4.				
5.				
6.				

Signature of the applicant

Full name of applicant

Stamp & Date

FORMAT – 4

Financial Strength of the Organization					
S. No	Financial Year	Whether profitable Yes/NO	Annual net profit (in Crores of Rs.)	Overall annual turnover (in Crores of Rs.)	Annual turnover from only Consultancy services rendered in India (in Crores of Rs.)
1	2015-16				
2	2016-17				
3	2017-18				

Note: Please enclose auditor's certificate in support of your claim.

Signature of the applicant

Full name of applicant

Stamp & Date

FORMAT – 5

Additional Information		
1. List all enclosures related to the previous sections.		
Sl. No.	Description	No. of pages
2. Additional information to support the eligibility as per Section 6 (Not more than 2 pages).		
Signature of the applicant Full name of applicant Stamp & Date		

FORMAT -6

Declaration
WE HEREBY CONFIRM THAT WE ARE INTERESTED IN COMPETING FOR THE DETAILED ANALYSIS, RE-ENGINEERING, MODIFICATION, SUPPLY, AND INSTALLATION SUPERVISION OF RECOMMENDED EQUIPMENT/PARTSAND COMMISSIONING OF THE REFRIGERATION PACKAGE OF AUTOMATIC SLABBING AND PACKING UNIT All the information provided herewith is genuine and accurate. Authorized Person's Signature: Name and Designation: Date of Signature:

Note: The declaration is to be furnished on the letter head of the organization.

ANNEXURE-I

DETAILED ANALYSIS, RE-ENGINEERING, MODIFICATIONS, SUPPLY AND INSTALLATION SUPERVISION OF RECOMMENDED EQUIPMENT/PARTS AND COMMISSIONING OF THE REFRIGERATION PACKAGE OF AUTOMATIC SLABBING AND PACKING UNIT

TERMS OF REFERENCE

1. BACKGROUND

NRL has a capacity of producing 50 TMT of Paraffin Wax and 4.5 TMT of Semi-Micro Crystalline Wax Annually. The liquid wax is moulded into slabs of 5 kilograms and is packed into pallets of 1.35 Tonnes at the Automatic Slabbing Packing Unit (ASPU). There are two cold rooms at ASPU which are to be maintained at a colder environment to obtain an enhanced rate of wax slabs solidification. Two conveyor lines are used to transport the liquid wax inside the two cold rooms respectively. The solidified slabs are then transported and packed in two separate packaging lines. The combined rated capacity of the two conveyor lines is 200 Tonnes per day. The unit remains in continuous operation throughout the day.

The refrigeration package exists to maintain a suitable temperature inside the two cold rooms such that the solidification of wax slabs is at an optimum rate. The rated capacity of the refrigeration package is 1209.3 KW. Further details of the system are delineated herein:

- Duty: Continuous
- Capacity: 1209.3 KW
- Driver: Electrical Motor (560 KW)
- Refrigerant: R134a
- Compressor Type: Oil Injected Screw
- HP Receiver Capacity: 5 m³

2. OBJECTIVES

The objective is to analyze and determine the root cause of insufficient cooling of the system and suggest modifications of the existing refrigeration package so as to obtain greater reliability. The existing system is unable to maintain the optimum temperature inside the cold rooms. NRL has been facing issues with insufficient/uneven cooling in both the conveyor lines. The two cold rooms contain four evaporators each and desired cooling effect in all the evaporators cannot be achieved at one time and always require manual intervention.

It is thereby proposed to carry out a detailed analysis of the existing system and carry out necessary re-engineering and modification of the existing package. All modifications, testing, supply of materials/equipments, supervision for installation/replacement of parts/equipments, and commissioning of the modified package is to be carried out. The parties selected through the EOI shall only be eligible to participate in a competitive bidding.

3. TERMS OF REFERENCE

The terms of reference of the exercise are:-

- (a) To analyze the installed refrigeration package in terms of its design and actual performance.
- (b) To analyze the heat demand of the system.
- (c) To re-engineer the package in an effective and efficient manner such that minimal modifications/replacement of parts/equipments are generated.
- (d) To reduce manual intervention in the system.
- (e) To supply and install the parts/equipments and commission the modified package.
- (f) To guarantee the performance of the modified system for continuous operation during the year.

3. METHODOLOGY

Vendor has to visit NRL site and carry out a detailed analysis of the existing system. The vendor has to interact with the Operation and Maintenance personnel of NRL who will provide all available inputs related to the existing system.

The package is to be re-engineered in such a way that the modifications in the existing system are kept at a minimum.

The supply of the modified parts/equipments and commissioning shall be the responsibility of the vendor. Vendor has to submit a detailed time schedule for carrying out the study, supply of materials and commissioning.

4. TIME SCHEDULE

Time being the essence of this assignment, the entire assignment of detailed analysis, re-engineering, modification, supply and installation supervision of the recommended Equipment/parts and commissioning of the refrigeration package of Automatic Slabbing and Packing Unit needs to be completed within 06 months of placement of Purchase Order (PO)

5. INPUTS TO BE PROVIDED BY NRL

NRL will facilitate interaction of agency/individuals/service engineers with the Operation & Maintenance teams of the Automatic Slabbing Unit. NRL shall provide all the available process parameters and data sheets. All parameters sought by the party may not be available with NRL and in such a scenario; the party has to calculate the required parameters by itself.

6. DELIVERABLES

- (i) Analysis of the existing system and submission of detailed report including the recommendations to increase the reliability of the system to the required level.
- (ii) Framing of modified P&IDs in discussion with NRL .
- (iii) Conduct and submit the HAZOP report.
- (iv) Supply and installation supervision of the recommended parts/equipment.
- (v) Commissioning of the new system.
- (vi) Conduct Performance Guarantee Test Run of the modified system.
- (vii) To submit the operation and maintenance manual for the system.
- (viii) Supply of commissioning spares and mandatory spares.
