



**OIL INDIA LIMITED
DULIAJAN**

ADVERTISEMENT

for

INDIGENOUS EXPRESSION OF INTEREST (EOI)
EOI NO. EOI/INDIGENOUS/S/242/2024-25

Oil India Limited, a Government of India “NAVARATNA” Category Enterprise, engaged in the business of Exploration, Production & Transportation of Crude Oil and Natural Gas and Production of LPG invites Expression of Interest (EOI) from Indigenous service provider(s) against **EOI No.: EOI/INDIGENOUS/S/242/2024-25** for ‘**Gas Mapping Study along with development of equipment layout drawing, plot plan and P&ID of OIL’s installations**’. Interested Parties having relevant experience and expertise (details are available at OIL’s website - www.oil-india.com) are invited to submit their EOI(s) at our e-mail ids: eoicontracts@oilindia.in or upasana.malakar@oilindia.in within the stipulated date as indicated in the detailed EOI, followed by hard copies of the same through courier/post. The offer(s) may also be uploaded in Parties’ FTP server/File sharing website (portal) and the link(s) may be provided to us at any of our above e-mail id within above specified period. All Corrigenda, addenda, amendments, time extensions to the EOI will be hosted on the website and no separate notification shall be issued in the press. Prospective participants against the EOIs are requested to visit the website regularly to keep themselves updated.

SUB: Gas Mapping Study along with development of equipment layout drawing, plot plan and P&ID of OIL's installations.

1.0 PREAMBLE

Oil India Limited (OIL) is a premier national Oil company engaged in the business of exploration, production & transportation of crude oil & natural gas. Its operations are largely based in the north-eastern part of India with production facilities focussed on in the states of Assam and Arunachal Pradesh.

As a part of statutory requirement, OIL had carried out a quantitative risk assessment study as per the guidelines of OISD in the year 2018. As per recommendation of the QRA (Quantitative Risk Assessment) study and PNGRB (Petroleum and Natural Gas Regulatory Board) guidelines, OIL is required to carry out a 'Gas Mapping Study' in its production installations and tank farm units to check the adequacy and location of number of hydrocarbon detectors installed/to be installed in the various units. Accordingly, it has been decided to carry out the gas mapping study in OIL, utilizing the services of a reputed and experienced consulting agency. This shall help OIL to carry out various risk analysis study. These studies shall help in taking appropriate measure and bring down the risk as low as reasonably practicable and thereby minimize losses in the event of an incident.

2.0 OBJECTIVE

The Contractor shall have to perform jobs as below, at the respective installations of Oil India Limited, Duliajan.

- i) Gas Mapping (08 nos. of installations only):
- ii) Development of Equipment layout drawing (07 nos. of installations only):
- iii) Plot Plan and P&ID (01 no. of installation only):
- iv) Updating existing PFD (Process Flow Diagram), P&ID Piping and Instrumentation Diagram), Plot Plan and Piping GA (General Arrangement) (01 no. of installation only):

3.0 LOCATION OF THE AREA

1. Berekuri QPS (Quick Production Setup), 30 kms from Duliajan
2. Kumchai EPS (Early Production Setup), 130 kms from Duliajan
3. Joypur GCS (Gas Collecting Station), 18 kms from Duliajan
4. Dikom Bowser Unloading station (DBUS), 35 kms from Duliajan
5. ITF (Integrated Tank Farm) Tengakhat, 25 kms from Duliajan
6. CTF (Central Tank Farm) Duliajan, 65 kms from Duliajan

7. CTF (Central Tank Farm) Moran, 02 kms from Duliajan
8. CGGS (Central Gas Gathering Station) & OTP (Offake Point) Madhuban., 06 kms from Duliajan

4.0 BROAD SCOPE OF WORK

4.1 Gas Mapping (08 nos. of installations):

The bidder has to carry out gas mapping study (Dispersion Modelling Study) for 08 (Eight) nos. of installations at Oil India Limited as per relevant applicable standards/guidelines, based on as-built engineering information for the early identification of potential hazards and threat affecting people, the environment, assets, or reputation.

The 08 (Eight) installations are as follows:

1. Barekuri QPS (Quick Production Setup), 30 kms from Dulaiajn
2. Kumchai EPS (Early Productiob Setup), 130 kms from Duliajan
3. Joypur GCS (Gas Collecting Station), 18 kms from Duliajan
4. Dikom Bowser Unloading station (DBUS), 35 kms from Duliajan
5. ITF (Integrated Tank Farm) Tengakhat, 25 kms from Duliajan
6. CTF (Central Tank Farm) Duliajan, 65 kms from Duliajan
7. CTF (Central Tank Farm) Moran, 02 kms from Duliajan
8. CGGS (Central Gas Gathering Station) & OTP (Offake Point) Madhuban., 06 kms from Duliajan

The bidder shall carry out the jobs as detailed below, but not limited to the following:

- i) Analysis of the dispersion pattern and identify the location and mounting height of the detectors and provide an overall gas detection layout plan using proven modelling software used for dispersion study.
- ii) The gas mapping study must suggest location, type, adequacy, and number of detectors that needs to be installed across various units of the installations.
- iii) Implementation of recommended best practice for system effectiveness of the gas detection system as per provisions of ISA-TR 84.00.07-2004 Ver A.
- iv) Gas mapping study shall be performed through appropriate gas mapping software only. All gas mapping shall be performed by personnel who are qualified to perform gas mapping studies and qualified to use the gas mapping software.

- v) The bidder shall perform gas mapping to verify that the coverage targets that were selected for each gas zone are achieved by the proposed design. The mapping study shall consider the following factors:
- 1) The proposed layout and orientation shall be assessed to ensure the following:
 - a) To ensure the coverage footprint is sufficient to provide the required hazard alarms and control actions.
 - b) To ensure that detector views are not impeded by pipe work, cable trays, or other obstructions.
 - 2) The effective range of the selected detectors shall consider the expected environment, with the estimate based on test data.

The gas mapping study shall be of the scenario coverage variety (or geographic coverage) for gas detection arrays. Scenario coverage shall calculate the fraction of the release scenario frequency that, if a gas release would occur, would be detected.

The gas mapping shall be performed utilizing the appropriate software tools mentioned in point (2.1.iv) of this document, that shall generate a colorized map of the coverage provided in a zone, along with tabulated and calculated results.

- vi) Optimization/detector layout: Modelling of point detection systems along with open path detection systems along with colour coded map showing frequency of existence of any gas cloud in any given location of monitored area.
- vii) The results of the study shall be presented as two gas coverage maps, one scenario coverage and one geographic coverage for each zone, with tabulated results of the mapping analysis. The results of the analysis shall also be presented in the form of a detector list that shows all the detectors that were employed in their study and provides information regarding their location, orientation, type, and settings.
The bidder shall submit the final report within stipulated time frame after incorporating all the suggestions/comments received in the review meeting.

4.2 **Development of Equipment layout drawing (07 nos. of installations):**

The bidder shall carry out the jobs as detailed below, but not limited to the followings:

- i) Creation of as-built equipment layout drawing using appropriate software tools for all 07 (seven) locations, namely:

1. Barekuri QPS (Quick Production Setup),
2. Kumchai EPS (Early Production Setup),
3. Joypur GCS (Gas Collecting Station,
4. Dikom Bowser Unloading station (DBUS),
5. ITF (Integrated Tank Farm) Tengakhat,
6. CTF (Central Tank Farm) Duliajan
7. CTF (Central Tank Farm) Moran.

ii) All information created shall fully reflect plant items contained therein (equipment, pipelines, piping components, instrument components, signal lines, etc.) along with the relevant attribution information.
Note: All digitized information should run on Microsoft Windows operating system.

iii) Collection of input data, input verification & creation of document of each concerned installation in acceptable international standard practice by surveyors along with customization of symbols in conformation to ISA or other international standards. (Scale 1:300, in a single sheet).

4.3 **Plot Plan and P&ID (01 no. of installation only):**

The bidder shall carry out the jobs as detailed below, but not limited to the followings:

- i) Creation of as-built Plot Plan and P&ID using appropriate software tools **for Dikom Bowser Unloading Station (DBUS) only.**
- ii) All information created shall fully reflect plant items contained therein (equipment, pipelines, piping components, instrument components, signal lines, etc.) along with the relevant attribution information.
- iii) Collection of input data, input verification & creation of document of the concerned installation in acceptable international standard practice by surveyors along with customization of symbols in conformation to ISA or other international standards. (Scale 1:300, in a single sheet).

4.4 **Updating existing PFD (Process Flow Diagram), P&ID Piping and Instrumentation Diagram), Plot Plan and Piping GA (General Arrangement) (01 no. of installation only):**

The bidder shall carry out the jobs as detailed below, but not limited to the following:

- i) Update existing as-built PFD (Process Flow Diagram), P&ID, Plot plan and Piping GA drawing using appropriate software tools for **CGGS & OTP Madhuban only**.
- ii) All information created shall fully reflect plant items contained therein (equipment, pipelines, piping components, instrument components, signal lines, etc.) along with the relevant attribution information.
- iii) Collection of input data, input verification & creation of document of the concerned installation in acceptable international standard practice by surveyors along with customization of symbols in conformation to ISA or other international standards. (Scale 1:300, in a single sheet)

5.0 PERIOD OF CONTRACT

The duration of contract shall be 09 (Nine) months.

6.0 PRE-QUALIFICATION CRITERIA

6.1 Technical Criteria

Bidder must have experience of successfully executed/completed jobs in **‘gas mapping study/fire and gas mapping/dispersion analysis in any oil & gas processing station/refinery**, over the last 07 (seven) years reckoned from the date of publication of the EOI, in PSUs/Central Government/State Government Organization/Public Limited Company/any E&P Company, in India.

Notes to Clause No. 6.1 above:

A. For proof of requisite experience (refer Clause No. 6.1 above), the following documents/photocopy (self-attested/attested) must be submitted along with the bid:

- i) Contract document/LOI/LOA/WO showing details of work,
AND
- ii) Job Completion Certificate issued by the end user/client in their official letter head duly sealed and signed showing:
 - a) Nature of jobs done and Work Order No./Contract No.
 - b) Contract period and date of completion.

OR

SES (Service Entry Sheet)/Certificate of Payment (COP) issued by the company indicating the following:

- a) Work Order No./Contract No.
 - b) Gross value of jobs done.
 - c) Period of service
 - d) Nature of service
- B.** Only Letter of Intent (LOI)/Letter of Award (LOA) and/or Work Order(s), Job Completion certificates are not acceptable as evidence of experience. However, in case the requisite experience is against OIL's contract, the bidder shall only be required to categorically specify OIL's Contract No.
- C.** Mere award of contract(s) shall not be counted towards experience. Successful completion of the awarded contract(s) to the extent of value, as stipulated respectively under Clause No. 6.1 shall only be treated as acceptable experience.
- D.** Following work experience shall also be taken into consideration:
- (a)** In case the start date of the requisite experience is beyond the prescribed 07 (seven) years reckoned from the date of publication of the EOI, but completion is within the prescribed 07 (seven) years reckoned from the date of publication of the EOI.
 - (b)** If the prospective bidder has executed a contract in which work (as mentioned under Clause No. 6.1) is a component of the contract.
 - In case the document submitted as per **Para (A)** above are not sufficient to establish the quantity/period of the work experience mentioned in **Para D**, above, the bidder shall also have to submit the breakup of the works executed under such contract(s) clearly indicating the quantity/period of work (as mentioned under Clause No. 6.1) which should be certified by the end user or a certificate issued by a practicing Chartered/Cost Accountant Firm (with Membership Number & Firm Registration Number).
- E.** Experience of executing work (as mentioned under Clause No. 6.1) through 'sub-contracting' shall not be considered for evaluation.
- F.** Work executed (as mentioned under Clause No. 6.1) by a bidder for its own organization/subsidiary cannot be considered as experience for the purpose of meeting BEC.
- G.** Bid shall be eligible for rejection if not accompanied with adequate documentary proof in support of Work experience as mentioned in Para 6.1.

H. Bidders submitting their bid based on the experience of their Technical Collaborator/Joint Venture/Parent/Subsidiary/Co subsidiary/Sister Subsidiary/MOU with another party shall not be considered. Bids from Consortium, Joint Venture shall also not be considered.

I. Team members for job execution

As part of the job execution, the bidder shall deploy personnel with a minimum qualification of a B.E/B-Tech degree and at least 03 (Three) years of experience in gas mapping/fire and gas mapping/dispersion analysis projects at oil & gas facilities/refineries. The Curriculum Vitae (CV) of the proposed personnels must be submitted as per **Annexure-I** during mobilization period containing the following information:

- Employee ID
- Date of Birth
- Educational Qualification
- Experience
- Training courses attended.

The CVs should be certified by the CEO/Country Head/Chief Operating Officer/HR Head or a partner with Power of Attorney.

The bidder shall submit an undertaking along with their offer confirming the above point no. I.

6.2 Financial Criteria:

6.2.1 Annual Financial Turnover of the bidder during any of preceding 03 (Three) financial/accounting years reckoned from the date of publication of the EOI should be at least **Rs. 20,67,200.00 (Rupees Twenty Lakh Sixty-Seven Thousand Two Hundred)** only.

6.2.2 Net worth of the bidder must be Positive for the preceding financial/accounting year.

Note:

- i. Annual Financial Turnover of the bidder from operations shall mean: 'Aggregate value of the realization of amount made from the sale, supply or distribution of goods or on account of services rendered, or both, by the company (bidder) during a financial year' as per the Companies Act, 2013 Section 2 (91).

- ii. Net worth shall mean: 'Share capital + Reserves created out of profits and securities Premium - Aggregate value of accumulated losses (excluding revaluation reserves) - deferred expenditure - Miscellaneous Expenditure to the extent not written off and carried forward Loss - Reserves created out of write back of depreciation and amalgamation'.

Notes to Clause No. 6.2 above:

- a. For proof of Annual Turnover & Net worth, any one of the following documents/photocopies must be submitted along with the bid:
- (i) Audited Balance Sheet along with Profit & Loss account.
OR
(ii) A certificate issued by a practicing Chartered/Cost Accountant (with Membership Number and Firm Registration Number), as per format prescribed in **PROFORMA-I**.

Note: Mention of UDIN (Unique Document Identification Number) is mandatory for all Certificates issued w.e.f. February 1, 2019 by Chartered Accountant in Practice.

- b. Considering the time required for preparation of Financial Statements, if the last date of preceding financial/accounting year falls within the preceding six months/within the due date for furnishing of audit report as per Section 139(1) of IT Act, 1961 (read along with latest circulars/notifications issued by CBDT from time to time) reckoned from the original bid closing date and the Financial Statements of the preceding financial/accounting year are not available with the bidder, then the financial turnover of the previous three financial/accounting years excluding the preceding financial/accounting year will be considered. In such cases, the Net worth of the previous financial/accounting year excluding the preceding financial/accounting year will be considered. However, the bidder has to submit an undertaking in support of the same along with their technical bid as per **PROFORMA-II**.
- c. In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.
- d. In case the bidder is a Government Department, they are exempted from submission of document mentioned under para **a.** and **b.** above.

- e. Bid shall be rejected if not accompanied with adequate documentary proof in support of Annual turnover and Net worth as mentioned in Para 6.2.1 & 6.2.2.

7.0 NOTE

- (i) Interested Agency/Firm/Vendor/Contractor/Service Provider must write clearly the EOI number and EOI Description on their EOI.
- (ii) All documents submitted with the EOI must be self-certified by the vendor's authorized person. However, OIL reserves the right to verify the original documents.
- (iii) All the copies of document submitted along with the EOI should be clear and legible.
- (iv) OIL INDIA LIMITED (OIL) reserves the right to physically check the original documents/certificates, copies of which are submitted along with the EOI.
- (ii) The EOI is liable to be ignored in case of submission of any misleading/false representation by the vendor in the form of statements and attachments.

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CERTIFICATE OF ANNUAL TURNOVER & NET WORTH

TO BE ISSUED BY PRACTISING **CHARTERED ACCOUNTANTS' FIRM** ON THEIR LETTER HEAD

TO WHOM IT MAY CONCERN

This is to certify that the following financial positions extracted from the audited financial statements of M/s (Name of the Bidder) for the last 03 (Three) completed accounting years upto..... **(as the case may be)** are correct.

YEAR	TURN OVER In INR	NET WORTH In INR

Place:

Date:

Seal:

Membership Number:

Signature

Registration No.:

UDIN:

**(TO BE EXECUTED BY THE AUTHORIZED SIGNATORY OF THE BIDDER ON THE
OFFICIAL LETTER HEAD OF THE BIDDER)**

CERTIFICATE OF COMPLIANCE TO FINANCIAL CRITERIA

Ref: Note 'b' under Clause 6.2 Financial Criteria of BEC/BRC

I _____ the authorized signatory(s) of
_____ (Company or Firm name with address) do hereby
solemnly affirm and declare/undertake as under:

**The balance sheet/Financial Statements for the financial year _____ have
actually not been audited as on the Original Bid Closing Date.**

Yours faithfully,

For (type name of the firm here)

Signature of Authorized Signatory

Name:

Designation:

Phone No.

Place:

Date:

(Affix Seal of the Organization here, if applicable)

Note: This certificate is to be issued only considering the time required for preparation of Financial Statements i.e. if the last date of preceding financial/accounting year falls within the preceding six months reckoned from the Original Bid Closing Date.

**PROFORMA FOR CURRICULUM VITAE FOR TEAM MEMBERS FOR JOB
EXECUTION**

(to be submitted during mobilization period of the contract)

1. NAME :
2. PRESENT ADDRESS :
3. PERMANENT ADDRESS :
4. NATIONALITY :
5. DATE OF BIRTH :
6. DESIGNATED POST :
7. EDUCATIONAL QUALIFICATION :

Affix Passport Size Photograph

Sl. No.	Exam Passed	Institute	Board/University/Council Others	Grade/% Marks Obtained

8. TRAININGS
(Relevant to Gas Mapping Study) (If any) :
9. HSE TRAININGS (If any) :
10. SPECIFIC KNOWLEDGE/EXPERIENCE :
11. WORK EXPERIENCE :

Sl. No.	Name of the Company (Employer)	Designation or Post Held	Name of Company with type of Service Provided	Job Role/ Description	Key Job Responsibility	Period of Service		Experience (Relevant to Gas Mapping Study)
						From	To	

N.B.: Add rows as required. Annexure(s) may also be attached if required.



**OIL INDIA LIMITED
DULIAJAN**

SUBMISSION OF EOI:

Interested vendors having relevant experience and expertise as above are invited to submit their EOI(s) at e-mail id: eoicontracts@oilindia.in or upasana.malakar@oilindia.in within **15.07.2024 upto 15:00 Hrs (IST)**, followed by hard copies of the same in sealed envelopes super-scribing **“EOI No.: EOI/INDIGENOUS/S/242/2024-25** for **‘Gas Mapping Study along with development of equipment layout drawing, plot plan and P&ID of OIL’s installations’** through courier/post to the following address:

**CHIEF GENERAL MANAGER (CONTRACTS)
OIL INDIA LIMITED
CONTRACTS DEPARTMENT
DULIAJAN-786602, ASSAM, INDIA.**

Phone: 91-374-2808664,
Website: www.oil-india.com

Vendors may also upload their offer in their FTP server/File sharing website (portal) and the link(s) may be provided to us at our e-mail within the above specified period.

1. In case, the above-mentioned date happens to be a non-working day for OIL in Duliajan due to Bandh/holiday or for any other reasons, EOIs shall be received upto the next full working day till 15:00 Hrs. (IST) and opened accordingly. EOI may be sent by post/courier service or delivered personally at the tender box placed in the above office. However, OIL shall not be responsible for any consequence arising out of delay in receipt or non-receipt of EOIs.
2. OIL reserves the right for the following:
 - (a) To accept or reject any/all EOIs submitted by parties; and
 - (b) To cancel the process at any time without any liability and assigning any reason thereof to the applicants.
