



GAIL (INDIA) LIMITED
GAIL Complex, Vijaipur
Distt. Guna, Madhya Pradesh- 473112

**EXPRESSION OF INTEREST FOR SETTING UP OF
CO₂ PURIFICATION AND LIQUEFACTION PLANT
AT GAIL VIJAIPUR**

EOI DOCUMENT NO : GAIL/VJPR/GPU/EOI/2023-24/01

EOI ISSUANCE DATE : 10th Oct 2023

LAST DATE FOR SUBMISSION OF EOI : 10th Nov 2023



GAIL (India) Limited

(A Govt. of India Undertaking- Maharatna Company)

Expression of Interest

GAIL (India) Limited invites Expression of Interest (EOI) from interested parties who have the necessary technical competence, experience and financial strength to operate and maintain all such infrastructure for **“SETTING UP OF A CO2 PURIFICATION AND LIQUEFACTION PLANT AT GAIL VIJAIPUR ”**, District Guna, Madhya Pradesh. EOI Document No. GAIL/VJPR/GPU/EOI/2023-24/01

Interested parties shall submit their EOIs latest by 10.11.2023. For further details and complete document, please visit the GAIL's website www.gailonline.com. All revisions, clarifications, corrigendum, addendum, extension of due date if any, will be hosted on GAIL's website only. Bidders shall regularly visit the above website to keep themselves updated

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A. INTRODUCTION

GAIL (India) Limited is India's leading Maharatna Public Sector Undertaking having presence in entire natural gas value chain comprising of Exploration & Production, LNG imports, Gas Transmission & Marketing, Gas Processing, Petrochemicals, LPG Transmission and City Gas Distribution etc.

Gail (India) Ltd had established C2C3 Recovery Unit at Vijaipur, Madhya Pradesh and commissioned it during March, 2015 for recovery of ethane, propane and other hydrocarbon fractions from natural gas feed stock. Cryogenic separation process is used to extract various liquid hydrocarbons from natural gas. In the process, Very low temperatures of around -120 deg C are encountered. CO2 content in Feed gas in the process may freeze and convert into dry ice. To mitigate the same, the natural gas is sweetened with a suitable solvent which absorbs CO2 from the natural gas and CO2 free gas is processed in downstream of GPU for extraction of various liquid hydrocarbons. GAIL is looking for suitable patrons, who are interested to set up CO2 liquefaction plant on sustainable basis for using CO2 for various applications (such as beverages etc.) at Gail Vijaipur.

B. DETAILS OF CO2 AVAILABLE AT GAIL VIJAIPUR

During sweetening process in our unit, CO2 is recovered to the tune of 1750 MT/day at 0.35 kg/cm²g and at 50 deg C. Design composition of recovered CO2 is as follows:

Components	CO2 gas wt. %
CARBON DIOXIDE	95.86
HYDRGEN SULFIDE	0.0068
NITROGEN	0.00
METHANE	0.15
ETHANE	0.06
PROPANE	0.00
I-BUTANE	0.00
N-BUTANE	0.00
N-PENTANE	0.00
I-PENTANE	0.00
N-HEXANE	0.00

N-HEPTANE	0.00
N-OCTANE	0.00
WATER	3.92

C. REQUEST FOR EXPRESSION OF INTEREST

GAIL (India) Limited invites Expression of Interest (EOI) in the prescribed Format as per Annexure enclosed & documents required in eligibility criteria, from applicants who are interested in

- a) setting up a CO₂ (carbon dioxide) purification and liquefaction plant inside Gail Vijaipur premises by capturing the recovered CO₂ from natural gas in the NG sweetening process by using their/ hired /licensed technology. The ownership of the CO₂ plant inside Gail Vijaipur premises will remain with GAIL. Cost (Land, power, utilities, Machineries, Engineering services etc) for setting up the plant will be borne by GAIL. After commissioning, the bidder will be responsible for operation, maintenance, marketing, Sales and distribution of CO₂.

OR

- b) The bidder may install new plant outside the battery limit of GAIL Vijaipur for utilization of recovered CO₂ during NG sweetening process of GAIL Vijaipur and converting it in to value added products. The ownership of the CO₂ plant will be of bidder, GAIL will provide only CO₂ at battery limits of bidder at mutually agreed Pressure and Temperatures.

Applicants should have the necessary technical competence, experience and financial strength to operate and maintain all such infrastructure, as described above and meet the eligibility criteria as outlined below.

D. ELIGIBILITY CRITERIA

The applicant must fulfil the following minimum eligibility criteria

Technical criteria

Bidder should have experience of Setting up and handling/operation of CO₂ liquefaction plant in the proceeding 10 years (reckoned on EOI due date) in India or abroad having capacity equivalent to at least **50 MT/day**.

Minimum quantity of CO₂ expressed in EOI is **100 MT/day**.

For evaluation of technical criteria, bidder shall submit the following documents:

- i) Any relevant documents substantiating their capability to Setting up and handling/operation of CO₂ liquefaction plant (Copy of Work order / LOA /Completion Certificate/ Company Udhyam Registration certificate /Company Registration certificate.
- ii) Any relevant documents in which capacity of CO₂ plant (set-up & handled by bidder) is clearly mentioned

Financial criteria

Bidder should submit the following documents

1. Copy of Audited Financial Results for the preceding three (03) financial years issued by Statutory Auditor / Chartered Accountant
2. Details of Financial capability of bidder issued by a Chartered Accountant
3. Net Worth of the bidder should be positive as per the last audited financial statement

All documents in support of Technical & Financial Eligibility Criteria to be furnished by the bidders shall necessarily be self-certified.

This document primarily details the pre-qualification criterions that need to be satisfied by the interested parties. Documents should also have details the documentary evidences that need to be submitted for expressing interest.

Other general details of the contract should also be provided for general understanding of interested parties. Further selection process to be adopted for award of contract and volume of contract etc., are not covered in this document.

Any further details that are deemed necessary will be intimated to shortlisted bidders from the EOI bidding process. This is Non-Committal EOI” means, As the envisaged initiatives to be selected for further implementation cannot be finalized at this stage, participation in subsequent tenders / bidding process will not be limited to the participants in EOI stage.

A more detailed Terms of Reference will be included in the Request for Proposal (RFP), which will be issued to the shortlisted Bidders.

Bidders shall note that, fulfilment of the qualification criterions shall not automatically mean qualification of the bidder for award of contract and these are only basic criterions for consideration of the bidder for further selection process. The award process shall be done through GAIL tendering process.

GAIL reserves the right to accept/ reject any or all the bids without assigning any reason whatsoever. The decision of GAIL shall be final and no correspondence will be entertained in this regard.

Please Note: There will be a pre-bid meeting through Virtual Mode (online) on 17th October, 2023 at 11.00 hrs for any clarifications/ resolution of doubts/queries. Applicants are requested to intimate their participation in advance by email to brijendra.kumar@gail.co.in

[Meeting links for the same as:](#)

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 428 113 291 747

Passcode: CALsrY

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[Learn More](#) | [Meeting options](#)

E. (a) BIDDER'S SCOPE OF WORK FOR SETTING UP PLANT INSIDE GAIL VIJAIPUR PREMISES:

1. Bidder should provide the details of proposed CO₂ purification and liquefaction plant and also provide detailed cost estimate for setting up the plant.
2. With due consent of GAIL, Bidders should setup a plant at Gail Vijaipur site for liquefaction of CO₂ recovered in Gail, Vijaipur.
3. Bidder should provide basic design, major equipment's/machinery details. Installation and commissioning shall be done bidder. All the statutory compliances are to be taken by bidder in the name of GAIL.
4. They can use their own technology for liquefaction or can hire/purchase suitable technology (conforming to National/ International standards) from licensors.
5. Bidder should provide information about the uses and potential customer market for their liquified CO₂ along with submission of EOI.
6. The ownership of the plant would lie with GAIL. Bidder will be responsible for operation, maintenance, marketing, sales and distribution of CO₂ for five years since date of commissioning.
7. Bidder should provide anticipated Margin per MT of CO₂ from proposed plant. After successful commissioning of plant

E. (b) BIDDER SCOPE OF WORK FOR SETTING UP PLANT OUTSIDE GAIL VIJAIPUR PREMISES:

1. Bidder should provide the basic details of proposed CO₂ plant and final products of CO₂ plant.
2. Bidder should provide CO₂ process conditions (Pressure & Temperature) at battery limit of GAIL.
3. Land requirement for setup of proposed plant and storage if any requirement.
4. Entire cost for setting up plant including equipment, machineries, piping etc. will be borne by BIDDER. Ownership of the plant will be of Bidder.
5. Bidder may provide anticipated purchase price of CO₂ from GAIL.

Detailed Scope of Work, Schedule of Rates, Evaluation Methodology, Bid Evaluation Criteria etc. will be intimated during the subsequent tendering process.

E. (a) GAIL SCOPE OF WORK FOR SETTING UP PLANT INSIDE GAIL VIJAIPUR PREMISES:

1. Land requirement for setting up of proposed plant and storage if any requirement.
2. Entire cost for setting up plant including equipment, machineries, piping etc. will be borne by GAIL.
2. Utilities requirement (water, steam, nitrogen, instrument air, Power requirement) will be provided by GAIL.
3. GAIL will bear cost occurred during installation and commissioning of the plant

E. (b) GAIL SCOPE OF WORK FOR SETTING UP PLANT OUTSIDE GAIL VIJAIPUR PREMISES:

1. GAIL will provide CO₂ at battery limit at mutually agreed parameters.

F) GENERAL TERM & CONDITIONS:

Strict adherence to the formats wherever specified, is required. Non-adherence to formats and/or submission of incomplete information or conditional information may be grounds for declaring the EOI non-responsive. Each format /annexures should be printed on applicant's letterhead and has to be duly signed by the Applicant.

The responses to this EOI shall be valid for not less than six (6) months from last date of submission.

GAIL would shortlist Applicants on the basis of EOIs received. The short listing of the applicants shall be completed within 60 days' of the opening of the EOIs and the successful applicants shall be informed.

The applicant should designate one person to represent it in its dealings with the GAIL. The person should be authorized to perform all tasks including, but not limited to providing information, responding to enquiries, etc.

The Applicant should submit a General Power of Attorney (GPA), authorizing the signatory of the Application to commit the Applicant to the response.

If the Applicant deliberately gives wrong information in its response to Expression of Interest, GAIL reserves the right to reject such EOI and/or cancel the award, if made.

Responses submitted by the Applicant will become the property of GAIL and GAIL will have no obligation to return the same to the Applicant.

The Applicant will be responsible for all the costs associated with the preparation of the response and participation in discussions. GAIL will not be responsible in any way for such costs, regardless of the conduct or outcome of this process.

Further, the Applicants may also please note that:

- (i) Applicants shall mention the name of the contact person, phone no., email id, fax no. and complete address of the Applicant in the covering letter.
- (ii) Responses that are incomplete, which do not substantially meet the requirements prescribed in this EOI, are liable to be rejected by GAIL.
- (iii) Responses containing incomplete information in the specified formats would be liable for rejection.
- (iv) All pages of the responses submitted must be initialled by the authorized signatory on behalf of the Applicant.
- (v) Applicants, not furnishing additional information or clarifications sought within the stipulated time, may be liable for rejection.
- (vi) Applicants making any claim, which does not reflect the truth or is material misrepresentation of facts, then the EOI would be liable for rejection.
- (vii) GAIL reserves the right to reject all or any of the responses without assigning any reasons whatsoever.

Confidentiality of Information and Data All information obtained by bidder/ consultant / expert during the project and all information/ data / maps etc. provided by GAIL to the bidder/ consultant/ expert must be considered confidential and must not be divulged by the bidder/ consultant/ expert or its personnel to any-one other than the Company's personnel. This obligation of bidder/

consultant/ expert shall be in force for a period of 2 years after the due date of the EOI. No part of this work shall be permitted to be presented and / or published in scientific/ technical papers/ journals etc. without prior consent of GAIL in this regard. The bidder shall provide a written Confidentiality Declaration as per Annexure-D.

Interested parties may inspect the CO2 recovering locations at GAIL Vijaipur (all expenditures to be borne by parties itself) on any working day during business hours with prior intimation to:

General Manager (GPU OPS)
GAIL (India) Limited
GAIL Complex, Vijaipur
Distt. Guna, Madhya Pradesh- 473112
Landline:07544 274444 Extn: 62 1300
Email: brijendra.kumar@gail.co.in

G) SUBMISSION OF EXPRESSION OF INTEREST: IMPORTANT DATES

Date of Notification of EOI	10th Oct, 2023
Date of Pre-bid conference at Vijaipur	1100 Hrs., 17th Oct 2023
Last date for submission of EOI at Vijaipur	1400 Hrs., 10th Nov 2023
Date of opening of EOI at Vijaipur	1500 Hrs., 10th Nov 2023

Applicants should furnish their Expression of Interest in the prescribed application format as per ANNEXURE with all the necessary documents in a sealed envelope along with a covering letter duly signed by an authorized signatory. It should be ensured that all information pertaining to (I) Details of the Organization, (II) Financial Status, (III) Business / Activity proposed at the premises, and (IV) Facilities sought for leasing along with supporting documents are enclosed.

EOI SUBMISSION MODE: EOI has to be submitted in any of the following two modes:

- a) The Applicant has the option of sending his response by Speed post, courier or submitting the EOI in person so as to reach the designated address by the time and date as stipulated:
The EOI documents placed in a sealed envelope shall be super scribed as below

Expression of Interest for setting up of a CO2 Liquefaction unit by consumption of CO2 recovered from natural gas from C2C3 recovery plant GAIL (India) Limited at Vijaipur, Distt. Guna, Madhya Pradesh

is to be submitted on or before the specified date at the address as below:

General Manager (GPU OPS)
GAIL (India) Limited
GAIL Complex, Vijaipur
Distt. Guna, Madhya Pradesh- 473112
Landline:07544 274444 Extn: 62 1300

Email: brijendra.kumar@gail.co.in

The Name of the Applicant, contact address, phone, fax, e-mail must also be mentioned on the Cover.

b) Through email

Email: brijendra.kumar@gail.co.in

Landline:07544-274444 Extn: 62 1300

Responses submitted by telex/telegram/fax will not be considered under any circumstances. GAIL shall not be responsible for any delay in receipt of the EOIs. Any response received after the deadline for submission of the responses stipulated will not be opened.

No change or supplemental information to an EOI will be accepted after the scheduled time of submission. GAIL reserves the right to seek additional information from the Applicants, if found necessary, during the course of evaluation of the EOI.

If the envelope is not sealed and not marked as per the requirement, the GAIL will assume no responsibility for the EOI's misplacement or premature opening.

EOI should reach the address indicated by 1400 Hrs. on or before 10th Nov,2023.

Notes:

1. Though adequate care has been taken while preparing this document, the Applicant shall satisfy himself that document is complete in all respects.
2. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Applicant within ten (10) days from the date of issue of this document, it shall be considered that the issued document is complete in all respects.
3. While this Expression of Interest has been prepared in good faith, GAIL does not make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions herein, or the accuracy, completeness or reliability of information contained herein, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this request, even if any loss or damage is caused by any act or omission on its part.
4. The details of systems on offer envisaged by GAIL as given in the EOI document are indicative and are under finalization. GAIL reserves the right to change the terms and conditions of the offer.
5. Interested parties can contact at below address for any queries.

General Manager (GPU OPS)
GAIL (India) Limited
GAIL Complex, Vijaipur
Distt. Guna, Madhya Pradesh- 473112
Landline: 07544 -274444 Extn:62 1300
Email: brijendra.kumar@gail.co.in

FORMAT FOR INDICATING EXPRESSION OF INTEREST

CHECKLIST OF DOCUMENTS ENCLOSED

SN	Document Name	No. of Pages

DETAILS OF THE ORGANIZATION

SN	PARTICULARS	DETAILS
1	Name of the Organization	
2	Type of Business (Proprietorship/ Partnership/ Private/ Public/ company/Cooperative Body/Joint Venture etc) with registration particulars.	
3	Name of Proprietor/Partners/Directors	
4	Structure of the Organization	
5	Complete communication particulars of Corporate and Registered office.	
6	Full communication details of contact person for one point contact along with Landline, Fax No., mobile number, email id, etc	
7	Memorandum and Article and Association	

FINANCIAL STATUS

SN	PARTICULARS	DETAILS
1	Annual turnover of last three financial years	
2	Financial position including Paid up Capital and Net worth duly certified	
3	Other recourses/ bank credit or Bank solvency certificate	
4	Equity holding ratio in case of JV, with its details	
5	IT returns for the last three financial years	
6	Audited balance sheet for the last 3 financial years	

FORMAT FOR CHARTERED ACCOUNTANT CERTIFICATE/ CERTIFIED PUBLIC ACCOUNTANT (CPA) FOR FINANCIAL CAPABILITY OF THE BIDDER

We have verified the Audited Financial Statements and other relevant records of M/s..... (Name of the bidder) and certify the following:

A. AUDITED ANNUAL TURNOVER* OF LAST 3 YEARS:

Year	Amount (Currency)
Year 1:	
Year 2:	
Year 3:	

B. NETWORTH* AS PER LAST AUDITED FINANCIAL STATEMENT:

Description	Year _____
	Amount (Currency)
1. Net Worth	

C. WORKING CAPITAL* AS PER LAST AUDITED FINANCIAL STATEMENT :

Description	Year _____
	Amount (Currency)
1. Current Assets	
2. Current Liabilities	
3. Working Capital (Current Assets-Current liabilities)	

****Refer Instructions***

Note: It is further certified that the above mentioned applicable figures are matching with the returns filed with Registrar of Companies (ROC) [Applicable only in case of Indian Companies]

Name of Audit Firm:

[Signature of Authorized Signatory]

Chartered Accountant/CPA

Name:

Date:

Designation:

Seal:

Membership No.:

Instructions:

1. The Separate Pro-forma shall be used for each member in case of JV/ Consortium.
2. The financial year would be the same as one normally followed by the bidder for its Annual Report.
3. The bidder shall provide the audited annual financial statements as required for this Tender document. Failure to do so would result in the Proposal being considered as non- responsive.
4. For the purpose of this Tender document:
 - (i) **Annual Turnover** shall be "Sale Value/ Operating Income"
 - (ii) **Working Capital** shall be "Current Assets less Current liabilities" and
 - (iii) **Net Worth** shall be Paid up share capital plus Free Reserves & Surplus less accumulated losses, deferred expenditure and miscellaneous expenditure not written off, if any.
5. **Above figures shall be calculated after considering the qualification, if any, made by the statutory auditor on the audited financial statements of the bidder including quantified financial implication.**
6. This certificate is to be submitted on the letter head of Chartered Accountant/CPA.

CONFIDENTIALITY DECLARATION

(TO BE SUBMITTED BY APPLICANT ON ITS LETTER HEAD)

All “Confidential information” provided in writing from time to time during the course of this EOI shall be treated as confidential for a period of 2 (two) Years after the due date of this EOI.

It is hereby agreed and acknowledged that no license, either expressed or implied, is hereby granted to the Receiving Party to use any of the Confidential Information.

The disclosure of Confidential Information does not, and is not intended to represent a commitment by the Disclosing Party to enter into any business relationship with the Receiving Party or with any other entity.

The Confidential Information shall not be disclosed in whole or in part to any person other than the personnel directly engaged with the tasks assigned under this EOI; or be used in whole or in part except in connection with this EOI.

The disclosure of Confidential Information shall be kept to the minimum necessary for the purpose for which it is disclosed and shall whenever practicable and permissible in advance of such disclosure, or if this is not practicable or permissible as soon as reasonably practicable or permissible thereafter, notify the other of such disclosure and the extent and terms thereof and the identity of the person to whom disclosure was made and shall so far as practicable minimise the further disclosure of the Disclosed Information.

Exceptions: The confidentiality obligations hereunder shall not apply to Confidential Information which:

- a. is, or later becomes, public knowledge other than by breach of the provisions of this Agreement; or
- b. is in the possession of the Party with the full right to disclose prior to its receipt from the Disclosing Party, as evidenced by written records; or
- c. is independently received by the Receiving Party from a third party, with no restrictions on disclosure.

Place:

Date:

(NAME AND DESIGNATION OF AUTHORISED PERSON)

(Seal of Company)

Proposed Liquefaction Plant inside GAIL Vijaipur premises Details

SN	PARTICULARS	
1	Name and location of Client	
2	Project Cost (including all taxes)	
3	CO2 consumed for liquefaction (MTPD)	
4	Power Requirement (kWh)	
5	Area Requirement (m2)	
6	Utilities requirements details	
7	Anticipated Operation cost (Rs. /MT of CO2)	
8	Usage of Liquified CO2	
9	Anticipated Margin (selling rate- operating cost) per MT of CO2	

ANNEXURE-F

APPLICATION OF LIQUIFIED CO2 PRODUCED FROM GAIL VIJAIPUR

SN	PARTICULARS	DETAILS
1	Application of liquified CO2	
2	Details of potential customers of liquified CO2	

Proposed Liquefaction Plant outside GAIL Vijaipur premises Details

SN	PARTICULARS	
1	Name and location of Client	
2	Amount of CO2 consumed for value added products	
3	Details of value added product made from CO2	
4	CO2 Battery limit condition at GAIL (Pressure & Temperature)	
5.	Anticipated purchase cost of CO2 from GAIL	