# **COAL INDIA LIMITED**

(A Government of India Enterprise)



## **REQUEST FOR EXPRESSION OF INTEREST**

**FOR** 

Identification of potential bidders (EPC-cum-technology provider) for development of Underground Coal Gasification project in CIL leasehold area

EOI Document No.: CIL/BD/C2C/203 dated 12.11.2025



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### 1.0 Introduction

- 1.1 Coal India Limited (CIL), the state-owned coal mining corporate, came into being in November 1975. Coal India Limited (CIL), a Maharatna Public Sector Undertaking under the Ministry of Coal, Government of India, is the world's largest coal producer. CIL operates through seven producing subsidiaries:
  - a) Eastern Coalfields Limited (ECL)
  - b) Bharat Coking Coal Limited (BCCL)
  - c) Central Coalfields Limited (CCL)
  - d) Western Coalfields Limited (WCL)
  - e) South Eastern Coalfields Limited (SECL)
  - f) Northern Coalfields Limited (NCL)
  - g) Mahanadi Coalfields Limited (MCL)
  - h) Additionally, CIL has a specialized mine planning and consultancy subsidiary, Central Mine Planning & Design Institute (CMPDI).
- 1.2 CIL also has diversified its core business domain into Coal gasification by incorporating two JV companies with other Maharatna PSUs:
  - a. Bharat Coal Gasification and Chemicals Limited (BCGCL), a JVC of CIL and BHEL, in which CIL holds 51% shareholding to set up a Coal to Ammonium Nitrate project in Lakhanpur, Odisha
  - b. Coal Gasification India limited (CGIL), a JVC of CIL and GAIL, in which CIL holds 51% shareholding to set up a Coal to SNG project in Bhadarpur, West Bengal
  - c. A Pilot project under R&D route on UCG in the Kasta West Block is undertaken

Through these initiatives, CIL aims to strengthen India's energy security, support the growth of domestic chemical industries, and accelerate the country's transition towards cleaner and sustainable coal utilization pathways.



### 2.0 Objective & Scope of Work

- 2.1 CIL intends to develop Underground Coal Gasification (UCG) projects within its leasehold areas to convert deep-seated and unmineable coal seams into valuable syngas and downstream chemical feedstocks such as SNG, methanol, ammonia, hydrogen, and other derivatives.
- 2.2 Accordingly, CIL invites Expressions of Interest (EOIs) from technically and financially capable EPC contractors and Technology provider/Licensors having proven experience in UCG, for development and implementation of UCG projects in CIL leasehold areas in a **two -phase approach**.
  - i) Phase-1: Detailed Site Suitability Assessment, Feasibility Studies, and UCG Mining Model Development
  - ii) Phase-2: EPC Execution, Commissioning and O&M of the UCG Facility
- 2.3 **The objective** of this EOI is to identify competent technology providers along with EPC partners who can:
  - i) Supply proven, efficient, and safe UCG technology suitable for Indian conditions; and
  - ii) Designing, developing, and implementing UCG facilities within CIL's identified leasehold areas

### 2.4 Scope of Work for Future projects/Works

The selected bidder (sole or consortium) shall undertake all technical, geological, techno-commercial feasibility study, designing, engineering & commissioning and O&M activities required to develop the for Underground Coal Gasification in the following two phases:

**A. Under Phase-1**: Site Suitability Assessment, Feasibility Studies, and UCG Mining Model Development:

#### 1. UCG Site Suitability Assessment:

- a. Assessment of seam thickness, depth, permeability, roof and floor lithology, hydrogeological regime, potential subsidence, and environmental sensitivities.
- b. Selection of pilot-scale or commercial-scale UCG site within the block based on techno-commercial potential.



#### 2. Development of UCG process Model and UCG Mining Model:

- a. Preparation of a UCG process model including injection well and production well design, cavity development modeling, and predicted syngas composition.
- Development of a UCG mining and production model, including well layout, drilling and directional drilling requirements, process flow diagrams, and mine safety considerations.
- c. Modeling of resource conversion, gasification efficiencies, syngas flowrates, and operational parameters.

#### 3. Techno-Commercial Feasibility Study

- a. Cost estimation (CAPEX & OPEX), syngas output viability, utilities and infrastructure requirements, approvals, risk analysis, and environmental impact preliminaries.
- b. Recommendation on project scale.

#### B. Under Phase-2: Engineering, Procurement, Construction (EPC) and O&M

- Technology Offering: Providing proven or demonstrated UCG technology including reactor design, control systems, syngas handling, and process safety systems.
- 2. **Project Design & Engineering**: Preparation of detailed design, engineering, and layout for UCG operations including drilling, well pattern, ignition system, gas clean-up, and surface facilities.
- 3. **Implementation on EPC Basis:** Execution of the project including supply, installation of pilot or/and commercial plant, construction, commissioning, and performance testing on EPC mode.
- 4. **O&M Support:** Post-commissioning operational assistance, capacity building, and training for CIL's technical personnel.
- 5. **Environmental & Safety Compliance:** Ensure compliance with statutory norms, monitoring systems for subsidence control, groundwater protection, and environmental safeguards. Adopt best practices to ensure long-term environmental safety.
- 2.5 In addition to the above, the Applicant shall also furnish the tentative cost estimate for the scope along with breakup.



2.6 Based on the responses received from the Applicants, CIL will conduct a tendering process for selection of EPC-cum-O&M Contractor(s) for the said project. The selected Contractor will be expected to provide best-in-class technologies.



### 3.0 Roles and Responsibilities

- 3.1 The proposed UCG project is envisaged to be established in any one of the subsidiaries of CIL, which shall be selected based on the available geological data and assessment of coal seam characteristics in the identified leasehold areas.
- 3.2 Role of EPC / Technology Licensor: The EPC Contractor-cum-Technology provider/
  Licensor shall be responsible for the design, execution, and safe operation of the UCG
  project. The scope shall include:
  - 3.2.1 Provide proven commercially or demonstrated UCG technology suitable for Indian coal.
  - 3.2.2 Prepare detailed design, drilling plan, gasification configuration, surface facility layout, and gas cleanup systems.
  - 3.2.3 Execute the project on an EPC basis, including drilling, construction, installation, testing, and commissioning of all facilities.
  - 3.2.4 Obtaining all the statutory clearances (environmental, safety, and operational).
  - 3.2.5 Provide O&M services, manpower training, and technology transfer to CIL's technical teams on mutually agreed terms.
  - 3.2.6 Ensure reliable and safe syngas production within specified performance parameters.
  - 3.2.7 Liaise with regulatory bodies for necessary clearances (environmental, safety, and operational).
  - 3.2.8 Implement environmental protection, groundwater preservation, and subsidence control measures in compliance with statutory regulations.

The duration of the Operations and Maintenance (O&M) services for the project shall be determined at a subsequent stage and shall be governed by terms and conditions mutually agreed upon by the parties

# 4.0 Eligibility Criteria:

- **4.1 Technical Eligibility:** The Interested Party (either individually or as a consortium/joint venture) must demonstrate adequate technical capability and experience as follows:
  - 4.1.1 The bidder should have **proven or demonstration** experience in design, engineering, construction, and operation of Underground Coal Gasification (UCG).
  - 4.1.2 The bidder must have experience in successfully commissioning and operating



at least one underground coal gasification (UCG) plant at commercial scale or validated through a pilot/demonstration project, with proven capability to generate syngas.

- 4.1.3 The bidder should possess or have access to a proven, **commercially operational or demonstrated/pilot scale**, and field-tested UCG technology.
- 4.2 The technology must have been implemented at either pilot or commercial scale and should have demonstrably achieved conversion of coal into syngas of the required quality, while ensuring safe and reliable underground operations.
- 4.3 The bidder should have prior experience in Operation & Maintenance (O&M) of UCG commercial/demo or pilot process plants or subsurface energy conversion operations.
- 4.4 The bidder should be capable of providing comprehensive EPC services, including detailed engineering, procurement, construction, commissioning, and performance testing.
- 4.5 The bidder should demonstrate capability in safety, environmental protection, and groundwater management systems, particularly in subsurface energy operations.
- **4.6 Financial Eligibility:** To ensure financial soundness and sustainability during project execution and operation, the bidder shall meet the following financial criteria:
  - 4.6.1 The Interested Party (or the Lead Member, in case of a consortium) should have a minimum average annual turnover of INR 300 crore (or equivalent in foreign currency) during the last three (3) financial years preceding the date of EOI submission.
  - **4.6.2** The Interested Party/each consortium member should have a positive net worth as on the last audited financial year.



# 5.0 Information required to be submitted by the Applicants

- 5.1 The Applicant shall be an entity, where entity means a body corporate incorporated in India under the Companies Act, 2013 and its amendments thereof or any other relevant law in India, as applicable.
- 5.2 Eligibility of Foreign Bidders Not Registered in India: Foreign companies not registered in India may participate individually, or in a Consortium with Indian or international members.
- 5.3 **Joint Venture (JV)/Consortium**: Two or three Companies/Contractors may jointly express their interest to undertake the work(s). Each entity will be jointly and severally responsible for completing the task as per the contract
- 5.4 In a Consortium:.
  - a. Lead Member (minimum participation share 50%)
  - b. Member (minimum participation share 20%)
  - c. Member (minimum participation share 20%)
- 5.5 **In case of Consortium,** Bidders shall submit a Consortium Agreement or Memorandum of Understanding which must include:
  - a. Intent to participate jointly
  - b. Roles, responsibilities & shareholding of each member
  - c. Commitment to joint and several liability for obligations under Phase-1 and/or Phase-2
  - d. Validity of the agreement for the entire duration of bid validity
- **Joint and Several Liability for consortium:** All Consortium members shall be jointly and severally responsible for the execution of obligations under the EoI, and subsequently under the RFP/RFQ and Contract, if selected.
- **5.7 Submission of Legal Documents:** Foreign bidders shall submit:
  - 5.7.1 Certificate of incorporation / business registration
  - 5.7.2 Details of ownership and corporate structure
  - 5.7.3 Authorization for the signatory to submit the Eol



- The Applicant entity should not be currently debarred or blacklisted by any of the Central or State Governments / Government Department / PSU / autonomous organizations / multilateral donor institutions. It should not have employed any public servant dismissed / removed or person convicted for an offence involving corruption or abetment of such offences. Director(s)/Owner(s)/Proprietor/Partner(s) of the Applicant entity should not have been convicted by any court of law for offences involving corrupt and fraudulent practices including moral turpitude in relation to business dealings with the Government of India or CIL or CIL's subsidiaries during the last five (5) years.
- 5.9 The Applicant shall furnish the following information in its EOI:

#### A. General Information about the Applicant:

- The information about the Applicant should be furnished as per format provided in Annexure-1 with reference documents.
- ii) Undertaking should be furnished as per format provided in Annexure-2.

#### **B.** Technical Information about the Applicant:

The Applicant shall furnish details of such experience in the format given in Annexure-3.

#### C. Financial Information about the Applicant:

The Applicant shall furnish the Annual Turnover and Net Worth during the last three financial years just preceding the financial year in which EOI has been submitted in the format given in Annexure-4.

**Note:** Financial data should be provided in Indian Rupees only. Audited financial statements for the last three (3) financial years, duly certified by a Chartered Accountant / Statutory Auditor, shall be submitted as proof

# 6.0 Mode of Engagement

This EOI will be available for download from CIL's official website "<a href="https://www.coalindia.in">https://www.coalindia.in</a> and its subsidiaries official website <a href="http://nclcil.in/">http://nclcil.in/</a>, <a href="http://www.coalindia.in">http://www.coalindia.in</a>, <a href="http://www.compdi.co.in/">http://www.compdi.co.in/</a>, <a href="http://www.compdi.co.in/">http://www.compdi.co.in/</a>, <a href="http://www.coalindia.in/">http://www.coalindia.in/</a>, <a hre



participants can contact the following persons:

- a) Dr. Peeyush Kumar
   GM (BD/CtC)
   Coal to Chemicals
   Coal India Limited
   gmbd.cg.cil@coalindia.in
- b) Varun Kumar Panghal Manager (CP)Coal to Chemicalsvk.panghal@coalindia.in
- 6.2 EOIs must be submitted via email to <a href="mailto:gmbd.cg.cil@coalindia.in">gmbd.cg.cil@coalindia.in</a> with a copy marked to edca.cil@coalindia.in no later than the time and date stated in this REOI document

#### 7.0 Contents of the EOI

- 7.1 The language for submission of EOI shall be English.
- 7.2 The enclosed attachments shall be filled in completely and wherever not applicable it should be written as "Not Applicable". Applicants should furnish the required information and desist from writing "shall be furnished later" or submitting the blank form.
- 7.3 In case the Applicant intends to give additional information for which specified space in the given attachment is not sufficient, it can be furnished by additional sheets.
- 7.4 All the pages of the EOI and attachments should be signed and corrections and over writings should be countersigned by the authorized signatory.
- 7.5 The Applicant should submit an undertaking as per Format provided in Annexure-2.
- 7.6 CIL at any time reserves the right to cross check and confirm the information / details furnished by the Applicant.
- 7.7 All costs incurred by Applicant for preparing and submitting the EOI, in providing clarification or any other expenses whatsoever shall be borne by Applicants themselves, regardless of the conduct or outcome of the EOI process.

#### 8.0 Deadline for Submission of EOIs

8.1 EOIs must be submitted via email to <a href="mailto:gmbd.cg.cil@coalindia.in">gmbd.cg.cil@coalindia.in</a> with a copy marked to



edca.cil@coalindia.in no later than the time and date stated in this REOI document.

8.2 CIL may, at its sole discretion, revise and extend the EOI submission deadline by amending the REOI documents. Upon such amendment, the extended deadline shall be binding on both CIL and all Applicants

#### 9.0 Clarifications sought by the Applicant:

9.1 The Applicant can seek clarifications on any matter pertaining to this REOI document by submitting its queries to <a href="mailto:gmbd.cg.cil@coalindia.in">gmbd.cg.cil@coalindia.in</a> with a copy marked to <a href="mailto:edca.cil@coalindia.in">edca.cil@coalindia.in</a> within the timeline specified in this REOI document.

#### **10.0** Amendment to REOI Documents:

- 10.1 At any time prior to the deadline for submission of EOIs, CIL may, for any reason, whether at its own initiative, or in response to a clarification requested by any Applicant, amend the REOI document.
- 10.2 The amendments will be uploaded on CIL's website (<a href="https://www.coalindia.in">https://www.coalindia.in</a>) and its subsidiaries official website mentioned at clause 6.1. It will be assumed that the amended information have been taken into account by the Applicant in its EOI.
- 10.3 In order to afford prospective Applicants reasonable time in which to take the amendment into account in preparing their response, CIL may, at its discretion, extend the deadline for the submission of EOIs.
- 10.4 Applicants are advised to check regularly CIL's website (<a href="https://www.coalindia.in">https://www.coalindia.in</a>) for updates.

#### 11.0 Schedule:

11.1 Timeline associated with the EOI is shown below. CIL reserves the right to amend the EOI process and amend the schedule at any stage.

Event	Date / Time
Issuance of REOI document by CIL	13.11.2025
Pre-bid Meeting	02.12.2025 (tentatively)
Last Date and Time for submission of queries / request for clarifications by the Applicants	15.12.2025, 18:00 Hrs
Last Date and Time for receipt of EOIs by CIL	30.12.2025, 18:00 Hrs



#### 12.0 Right to Accept or Reject EOI:

12.1 Notwithstanding anything contained in this REOI document, CIL reserves the right to accept or reject any EOI or annul the process or reject all EOIs at any time without any liability or any obligation for such acceptance, rejection or annulment without assigning any reasons.

#### 12.2 Address for Communication and Submission:

Contact Person(s)/Tender Dealing Officer(s)		
Dr. Peeyush Kumar	Varun Kumar Panghal	
GM (BD/CtC)	Manager (CP)	
Coal to Chemicals	Coal to Chemicals	
Coal India Limited	vk.panghal@coalindia.in	
gmbd.cg.cil@coalindia.in		

#### **13.0** Corrupt or Fraudulent Practices:

- 13.1 CIL requires that Applicants observe the highest standard of ethics during the procurement and execution of the contracts. In pursuance of this policy, CIL:
  - a) Defines, for the purposes of this provision, the terms set forth below as follows:
    - i) "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
    - ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer, and includes collusive practice among Applicants (prior to or after submission of EOI) and to deprive CIL of the benefits of free and open competition;
  - will reject an EOI if it determines that the Applicant has engaged in corrupt or fraudulent practices;
  - c) will declare a firm ineligible, either indefinitely or for a stated period of time, for any subsequent shortlisting/ tendering process if it at any time determines that the firm has engaged in corrupt or fraudulent practices.



- 13.2 Applicant or bidder means the entity participating or intending to participate in this process, namely, Request for EOI: Identification of potential bidders (EPC-cumtechnology provider) for development of Underground Coal Gasification project in CIL leasehold area, as the case may be, shall respectively be referred as Applicant or Bidder.
- 13.3 Applicable Law and Jurisdiction: This EOI document shall be construed in accordance with the applicable laws of India. The Courts at Kolkata shall have exclusive jurisdiction in any proceedings arising out of this document.



### 14.0 List of Formats

- Covering Letter
- Annexure-1: General information of the Applicant
- Annexure-2: Format for Undertaking
- Annexure-3: Details of Applicant's experience
- Annexure-4: Financial information of the Applicant



# **Covering Letter**

(On Applicant's letterhead)

Ref.:	
	Date:
	Place:
То,	
General Manager (BD)/Coal to Chemicals Coal India Limited Coal Bhawan Premise No-04 MAR, Plot No-AF-III,Action Area-1A, Newtown, Rajarhat, Kolkata-700156 PBX: 033 7110-4349 Email: - gmbd.cg.cil@coalindia.in	
Subject: EOI for Identification of potential bidders (EPC-cum development of Underground Coal Gasification project in CIL	• • • • • • • • • • • • • • • • • • • •
Eol Reference: CIL/BD/C2C/203 dated 12.11.2025	
Dear Sir,	
We hereby, submit our EOI for "Identification of potential bidded provider) for development of Underground Coal Gasification area" in accordance to the Request for Expression of Interest (F. Coal India Ltd. (CIL), hereinafter, referred to as REOI Document.	project in CIL leasehold
We hereby confirm the following:	
The EOI is being submitted by (Name is the Applicant in accordance with the conditions stipulated in the	of the Applicant Entity) who REOI Document.
We (Name of the Applicant Entity), a responsible for completion and performance of the anticipated Sco	• •
We hereby submit the following details in accordance with the REOI Document:	conditions stipulated in the
We have examined in detail and have understood, and abide by, a stipulated in the REOI Document and in any subsequent communi is consistent with all the requirements of submission as stated in	cation sent by CIL. Our EOI



any of the subsequent communications from CIL.

The information submitted in our EOI is complete, is strictly as per the requirements as stipulated in the REOI Document and is correct to the best of our knowledge and understanding.

#### Signed for and on behalf of

#### (Sign. & Seal of Authorized Signatory)

#### Enclosures – As per the list of documents given below:

SI. No.	Formats as per REOI Document	Description	Documents Submitted
1.	Annexure-1	General information of the Applicant	Yes/No
2.	Annexure-2	Format for Undertaking	Yes/No
3.	Annexure-3	Details of Applicant's experience	Yes/No
4.	Annexure-4	Financial information of the Applicant	Yes/No



# **Annexure-1: General information of the Applicant**

(On Applicant's letterhead)

1	Applicant Entity Details	
1.1	Full Legal Name of Applicant's entity	
1.2	Legal Status of the Applicant's entity	Public Ltd. Co. / Pvt. Ltd. Co. / Partnership / Proprietorship / Any other status as applicable
1.3	CIN	
1.4	Registration No.	
1.5	Year of Registration	
1.6	Registered Office Address	
1.7	Telephone Number	
1.8	Fax Number	
1.9	e-mail Address	
1.10	PAN	
1.11	Principal Place of Business	
1.12	GSTIN	
2	Details of Personnel authori	zed for signing EOI
2.1	Name	
2.2	Designation	
2.3	Address	
2.4	Mobile Number	
2.5	e-mail ID	
3	Details of Contact Person fo	r Participation in Tenders post EOI
3.1	Name	
3.2	Designation	
3.3	Address	



3.4	Mobile Number	
3.5	e-mail ID	

#### (Sign. & Seal of Authorized Signatory)

**Note:** CIL reserves the right to seek additional documentary evidence from applicants in support of their respective statements.

The applicant may use additional page to furnish details if the space provided in this form is inadequate.



# **Annexure-2: Format for Undertaking**

		(TO BE SUBMITTED ON COMPANY LETTERHEAD)				
l 		, the Authorized signatory of (mention name of the Applicant Entity				
and	d its cor	mplete address) do here by solemnly affirm and declare as under:-				
1.	That our Firm / Company i.e (mention name of the Applicant Entity) has applied in response to the invitation of EOI for Development of Underground Coal Gasification project in CIL leasehold area.					
2.	(menti	our Firm / Company i.eon name of the Applicant Entity) is eligible to submit the aforesaid EOI as it not is liquidation, court receivership or similar proceedings.				
3.		Il the information, documents and declarations submitted in/with our EOI are correct best of our knowledge and understanding.				
4.	That if any information, document or declaration submitted in/with our EOI, is found to be incorrect at a later date, we indemnify CIL against any loss due to this and CIL may take any action as deemed fit.					
5.	We he	reby declare the following:				
	a)	We have not been Banned/Blacklisted as on date of submission of bid by any of the Central or State Governments in India / Government Department in India / Indian PSU / autonomous organizations in India / multilateral donor institutions.				
	b)	We have not employed any public servant dismissed/removed or person convicted for an offence involving corruption or abetment of such offences.				
	c)	Our Director(s)/Owner(s)/Proprietor/Partner(s) have not been convicted by any court of law for offences involving corrupt and fraudulent practices including moral turpitude in relation to business dealings with Government of India or CIL or CIL's subsidiaries during the last five (5) years.				
6.	That misle subs	orther declare as under:  if any information / data furnished by us is found to be incorrect or false or eading at any point of time, it would render us liable to be debarred from any sequent tendering / taking up of work in CIL, and CIL shall have the full right to take action as per applicable laws.				
Sig	ned for	and on behalf of				
		(Sign. & Seal of Authorized Signatory)				
Da	te:					
Pla	ice:					



# Annexure-3: Details of Applicant's experience

Date:

### (On Applicant's letterhead)

### Details of the EPC or technology provider for UCG or both works by the Applicant:

SI. No.	Project name	Capacity (	Location of installation	Client / Customer Name and Address	Date of award	Date of commissioning	Current status of project (e.g. under construction, successful operation)	Applicant's Scope of work in the project (e.g. EPC, O&M)
1								
2								
3								
	Add rows for more no. of projects							
Total C	apacity			•	•	•	•	·

	(Sign. & Seal of Authorized Signatory)
Place:	



# Annexure-4: Financial information of the Applicant

(On Applicant's letterhead)

Financial Year	Annual Turnover (INR Crore)	Net Worth (INR Crore)

	(Sign. & Seal of Authorized Signatory)
Place:	
Date:	