

**ADVERTISEMENT**

**EXPRESSION OF INTEREST (EOI) NO. EOI/GLOBAL/O/102/2019-20**

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 International service provider(s) against **EOI No.: EOI/GLOBAL/O/102/2019-20** for ‘**Carbonated Water Injection (CWI) Services for a Pilot EOR Project in Dikom Field of Oil India Limited**’. Interested Parties having relevant experience and expertise (details are available at OIL’s website - [www.oil-india.com](http://www.oil-india.com)) are invited to submit their EOI(s) at our e-mail id: [eoicontracts@oilindia.in](mailto:eoicontracts@oilindia.in) or [gcd@oilindia.in](mailto:gcd@oilindia.in), [arupsarmah@oilindia.in](mailto:arupsarmah@oilindia.in), [upasana\\_malakar@oilindia.in](mailto: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.

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**SUB: EXPRESSION OF INTEREST (EOI) NO. EOI/GLOBAL/O/102/2019-20 FOR CARBONATED WATER INJECTION (CWI) SERVICES FOR A PILOT EOR PROJECT IN DIKOM FIELD OF OIL INDIA LIMITED.**

**1.0 PREAMBLE**

OIL INDIA LIMITED (OIL), a Government of India Enterprise, is a premier oil & gas company engaged in exploration, production and transportation of hydrocarbon with its headquarters at Duliajan in Dibrugarh district of Assam, India. The company has operating interests across the country as well as in several foreign countries. The major oil & gas producing assets of the company are located in Upper Assam Basin of North East India, barring a hydrocarbon producing asset in Rajasthan. Duliajan has railway and air connectivity with the nearest airport at Dibrugarh, 50 km away.

Oil India Limited adopts various IOR/EOR techniques to increase production from its ageing fields. Carbonated Water Injection (CWI) is one such novel EOR technique being planned by OIL in one of its fields located in upper Assam.

**2.0 OBJECTIVE**

Carbonated (CO<sub>2</sub>-enriched) water injection has been studied as a promising and cost-effective alternative EOR method. In Carbonated Water Injection (CWI), Carbon-dioxide (CO<sub>2</sub>) is used efficiently and only a small amount (8-10% CO<sub>2</sub> in water) is required compared to full-fledged CO<sub>2</sub> flooding. Therefore, smaller sources of CO<sub>2</sub> that are usually available around oil and gas fields can be used for providing the required amount of CO<sub>2</sub>. OIL intends to implement this technology as a Pilot in one of the major reservoirs of Dikom Field. As a part of requirement project, OIL plans to utilize the services of Service Providers/Agencies/Firms who have the expertise in cryogenic operation, storage, transportation and utilization of industrial gas.

Accordingly this EOI is floated for seeking expression of interest (EOI) from suitably experienced Service Providers/Agencies/Firms (either single or in consortium) for handling, storage, transportation and injection of CO<sub>2</sub>.

**3.0 LOCATION OF THE AREA**

Dikom field, where the CWI pilot will be implemented is located at a distance of around 15 Km from Dibrugarh town in Assam. Water Injection Station (WIS) for Carbonated Water is presently under construction.

CO<sub>2</sub> will be available from a Petrochemical Complex located within a distance of 30 Km of Dikom WIS. At Petrochemical Complex, during processing of Natural gas, CO<sub>2</sub> is removed & vented into atmosphere, by using Amine absorption process.

#### **4.0 BROAD SCOPE OF WORK**

Scope of work under this EOI broadly encompasses the following jobs:

- Construction of Facilities for handling pure CO<sub>2</sub> (120-150 TPD) available at a pressure of 0.2 Kg/cm<sup>2</sup> from a Petrochemical Complex located within approximately 15 Km of Dibrugarh Town (approx. 30 Km from Dikom). Normal specification of raw CO<sub>2</sub> contains 97% (mass) and remaining quantity contains mostly water and mild traces of Hydrocarbon Gases.
- Drying, liquefaction and storage of captured CO<sub>2</sub>. Required land, electricity and water will be available inside the Petrochemical Plant on chargeable basis.
- Transportation of Liquefied CO<sub>2</sub> from the source to Dikom Water Injection Station by Bullets/Tankers.
- Storage of liquid CO<sub>2</sub> at site (Dikom Water Injection Station).
- Injection of metered quantity of liquid CO<sub>2</sub> to the water injection lines going to the wells so that CO<sub>2</sub> mixes with the water which is being pumped to the wells at around 120 - 150 KSC pressure (CO<sub>2</sub> concentration about 8% - 10%).
- Construction of Water Injection Facilities along with Water Injection Lines to the wells will be under OIL's scope.
- Necessary liquid CO<sub>2</sub> Pumps, Pipings, Valves, Gauges, Meters etc. required for the above will be under the scope of this EOI.
- Land, Air, Water, Electricity will be provided by OIL for the CO<sub>2</sub> Storage and Injection facilities at Dikom Water Injection Station.
- Interested party will have to furnish approximate quantity of land, power and any other utilities required at both at CO<sub>2</sub> capturing and Injection sites.
- Provisioning of all required Instrumentation and control facilities.

#### **5.0 PERIOD OF CONTRACT**

The period of Contract will be for a period of 05 (Five) years and shall be extendable for another 02 (Two) years on mutual agreed rates limiting to the contract rates and the same terms and conditions at the discretion of OIL.

#### **6.0 PRE-QUALIFICATION CRITERIA**

Considering that the Project is one of its kind to be tried in India, it is anticipated that the prospective interested party is technically as well as financially competent on its own or can participate through a consortium of companies or Joint Venture. Consortium or Joint Venture EOI(s) shall be submitted clearly defining the role/scope of work of each partner of Joint Venture/members of the consortium. Joint Venture agreement or Memorandum of Understanding (MOU) between the consortium members duly signed by the authorized Executives of the Joint Venture partner or consortium members will be required during bidding stage. Detail modalities of participation in case of consortium of companies or Joint Venture will be a part of the Tender.

The interested party must fulfil the following minimum qualifying criteria:

- Should be properly registered company.
- Should have minimum 03 (Three) year's experience in storage, transportation, utilization and pumping of industrial gas in cryogenic state to be reckoned from the date of publication of the EOI.
- Should have the infrastructure and financial capability to complete development, procurement, construction and installation of all facilities in order to be ready for CO<sub>2</sub> injection within 09 (Nine) months of issue of Letter of Award by the Company.

Interested parties are requested, as a minimum, to submit the following documents and details:

(i) **HSE Systems:**

- a. HSE Statistics in terms of LTI/LTIFR/Near Miss Incidents for all projects executed in last 03 (Three) years to be reckoned from the date of publication of the EOI.
- b. Existing HSE Management System of the company.

(ii) **Company information as under:**

- a. Name of the Contractor/Service Provider.
- b. Address, Phone, E-mail of the Contractor/Service Provider
- c. If a Joint Venture/Consortium is proposed, Name, Address, Phone, E-mail of all Joint Venture partners/consortium members.
- d. Organization Structure of the Contractor/Service Provider.

(iii) **Company's Financial Performance Documents (including JV Partner's /Consortium: Partner's financials, if proposed) i.e. Audited Balance Sheets, Profit and Loss Account & Cash Flow Statements for the preceding 03 (Three) financial/accounting years to be reckoned from the date of publication of the EOI & following details separately:**

- a. Company Turnover based on last 03 (Three) audited Financial statements to be reckoned from the date of publication of the EOI.
- b. Company's Net Worth based on last 03 (Three) audited Financial statements to be reckoned from the date of publication of the EOI.
- c. Working Capital based on last 03 (Three) audited Financial statements to be reckoned from the date of publication of the EOI.

(iv) **Experience:**

- a. List of projects involving storage, transportation, utilization and pumping of industrial gas in cryogenic state successfully executed in the last three years or

currently under execution in India or abroad with completion certificates as applicable.

- b. Detail of current commitments including percentage completion of the ongoing works.

(v) **Manpower & Infrastructure Details:**

- a. Details of Key Members who shall be involved in the Project execution including their experience levels.
- b. Detail of logistical infrastructure owned by the Company relevant to execution of the job.

(vi) **Quality/Other Systems:**

- a. Copy of current ISO Certificate or other certifications. if applicable.
- b. Certification of the Companies QA system by an accredited certification body, if applicable.
- c. QMS of the Company, if applicable.
- d. Copy of registration certificate (Labour Law, EPF etc. as applicable).

**7.0 NOTE**

- (i) Interested 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.

**8.0 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](mailto:eoicontracts@oilindia.in) or [gcd@oilindia.in](mailto:gcd@oilindia.in), [arupsarmah@oilindia.in](mailto:arupsarmah@oilindia.in), [upasana\\_malakar@oilindia.in](mailto:upasana_malakar@oilindia.in) within **13.06.2019 upto 15:00 Hrs (IST)**, followed by hard copies of the same in sealed envelopes super-scribing **“EXPRESSION OF INTEREST (EOI) NO. EOI/GLOBAL/O/102/2019-20 FOR CARBONATED WATER INJECTION (CWI) SERVICES FOR A PILOT EOR PROJECT**

