

**OIL INDIA LIMITED**  
**(A Govt. of India Enterprise)**  
**CONTRACTS DEPARTMENT**  
**P.O. Duliajan-786 602(Assam)**

**INVITATION FOR EXPRESSION OF INTEREST (EOI)**  
**EOI NO.: OIL/R&D/GLOBAL/EOI/03/2017**

**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 the Dibrugarh district of Assam, India, invites EOI from reputed and established E & P Vendor/Contractor/Service Provider (SP) globally meeting the pre-qualification criteria as mentioned below for issue of tender documents for providing Services for Carbonated Water Injection (CWI) needs. 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. The operational area is spread over a radius of around 60 km from field head quarters at Duliajan. Duliajan has railway and air connectivity with the nearest airport at Dibrugarh, 50 km away.

**2.0 OBJECTIVE:**

Most of the crude oil and gas produced by Oil India Limited (OIL) is from its matured and ageing fields. Revitalization of mature and ageing fields to augment production and improve recovery through various optimization studies as well as use of fit-for-purpose technology is a priority and has been applied to a number of candidate reservoirs. Additionally, Enhanced Oil Recovery (EOR) is also being considered to be one of the thrust areas of the Company now. In order to enhance production /recovery from its mature fields, various EOR schemes for increasing reservoir oil recovery are being looked into. In this line OIL intends to implement a pilot scale EOR Project in the form of Carbonated Water Injection (CWI) by utilizing the services of Agencies/Firms (either single or in consortium) who have the expertise in this field.

**3.0 PROJECT INFORMATION - CARBONATED WATER INJECTION (CWI):**

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), 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 and can be applied in the field with relatively minor modifications to facilities required for conventional water flooding. Therefore, smaller sources of CO<sub>2</sub> that are usually available around oil and gas fields at relatively lower cost can be used for providing the required amount of CO<sub>2</sub>. CWI also provides an opportunity for early implementation of CCS (carbon capture and storage) by addressing two most important barriers to CCS, i.e. cost of capture and safety of storage. Heriot Watt University, Edinburgh, UK has been conducting studies on Carbonated Water Injection (CWI) as an EOR method as Joint Industry Projects (JIP) where Oil India Limited is also involved, in order to understand the various mechanisms and depict its advantages over other EOR methods. The initial

results of the experiments have shown that injection of carbonated water instead of plain water increases oil recovery in both secondary and tertiary modes. OIL therefore intends to implement this technology as a Pilot in one of the major reservoirs of Dikom Field, for which the EOI is being floated. Further, Brahmaputra Crackers and Polymers Limited (BCPL), Lepetketta, Dibrugarh will be providing the desired Carbon dioxide (CO<sub>2</sub>) for this project.

#### **4.0 LOCATION OF THE AREA:**

The company has operating interests across the country as well as in several foreign countries. However, 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. The operational area in the Upper Assam Basin of North East India is spread over a radius of around 60 km from field head quarters at Duliajan. Duliajan has railway and air connectivity with the nearest airport at Dibrugarh, 50 kms away. The identified Field where the Carbonated Water Injection (CWI) has been planned to be carried out is located very close to Dibrugarh town.

#### **5.0 BROAD SCOPE OF WORK:**

Currently, construction of the Water Injection (WIS) in Dikom is under process along with facilities for produced water re-injection (PWRI). This Scope of Work is scheduled for building facilities for Carbonated Water Injection (CWI) requirement and it includes but not limited to the following:

- Construction of Facilities for drying, liquefaction, storage and evacuation of CO<sub>2</sub> with arrangements for hazard & pollution control inside BCPL Premises.
- Transportation of Liquefied CO<sub>2</sub> to the Proposed Dikom Water Injection Station by Bullets / Tankers.
- Storage with cooling and mixing of CO<sub>2</sub> with water at 120 Ksc with flexibility of mixing at a range of 8% to 10% at Dikom Water Injection Station for Carbonated Water Injection.
- Arrangements for hazard & pollution control at the OIL premise for the CWI Part.
- Laying of 10" Suction and Delivery manifolds and Laying of 4" injection lines from the manifold at the installation to water injection wells. Piping network shall start from injection manifold, flow-line across horizontal sector and the tubular inside injector wells, where use of HDPE Lines in the horizontal section and API L80 Grade steel in the tubular is required.  
**(This may be done during creation of the Water Injection Station at Dikom)**
- Construction of additional pump house, generator shed boundary wall, roads and walkways & other buildings & houses as may be required for carbonated water injection needs.
- Commissioning and installation of carbonated water injection pumps along with all the accessories.
- Commissioning and Installation of required generator sets for CWI needs and all electrical requirements.

- Provisioning of all required Instrumentation system (control & operational) with separate instrument air system (OIL's natural gas with filtering arrangement may be used.)
- Operation and Maintenance of Carbonated Water injection (CWI) facilities for a period of Six (6) months with simultaneous training and know how transfer to OIL personnel for subsequent takeover of the Operation and maintenance of the plant.
- Any other activity as may be required for injection of CO<sub>2</sub> in water stream (CWI) for the Dikom reservoirs.

## 6.0 SAFETY, HEALTH AND ENVIRONMENT :

The Vendor/Contractor/Service Provider shall have to comply with the applicable and prevailing provisions of Mines Act, 1952, OISD (Oil Industry Safety Directorate) guidelines and MoE&F (Ministry of Environment and Forest) directives.

## 7.0 PRE-QUALIFICATION CRITERIA

Considering that the Project is the one of kind to be tried in India, it is anticipated that the prospective Vendor/Contractor/Service Provider (SP) may be one who is technically as well as financially competent on its own or through a consortium of companies. Consortium EOI(s) shall be submitted with a Memorandum of Understanding (MOU) between the consortium members duly signed by the authorized Executives of the consortium members clearly defining the role/scope of work of each partner/member, binding the members jointly and severally to the responsibility for discharging all obligations under the contract and identifying the Leader of Consortium. Unconditional acceptance of full responsibility for brief 'Scope of Work' by the Leader of the Consortium shall be submitted with the EOI.

### A) Technical Criteria

The Vendor/Contractor/Service Provider/bidder must fulfil the following minimum pre-qualifying criteria for empanelment/ short-listing for issue of tender documents for hiring of Carbonated Water Injection (CWI) Services.

- A.1 Vendor/Contractor/Service Provider (SP) should be a registered company / LLC
- A.2 Experience of carrying out similar kind of work in the past.
- A.3 The Vendor/Contractor/ Service Provider should be in a position to start mobilization of their resources at site to take up the assignment in the event of a contract within ninety days (90) days from the date of issue of short Notice (Letter of Award) by Company. Vendor/Contractor/ Service Provider is required to submit a declaration in this regard.

To demonstrate their experience and capabilities, the Service Provider should provide information separately in an **Annexure-I**, highlighting the Projects of same or similar nature completed or currently under progress during the past along with details of infrastructure built and technology utilised for such contracts.

### B) Financial Performance

The Vendor/Contractor/Service Provider shall have an Annual financial turnover of 50% of the estimated Tendered Value (to be decided during tendering

process) during any of the preceding 03 (three) financial/accounting years reckoned from the original EOI publication date. Net worth of Vendor/Contractor/ Service Provider/bidder must be positive for preceding financial / accounting year.

**NOTE:**

For proof of Annual Turnover & Net Worth, any one of the following documents must be submitted along with the EOI:

i) A certificate issued by a practicing Chartered /Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in another **ANNEXURE-III.**

OR

ii) Audited Balance Sheet along with Profit & Loss account. In case of foreign Vendor/Contractor/Service Provider, self-attested/digitally signed printed published accounts are also acceptable.

In case the Audited Balance Sheet and Profit Loss Account submitted along with the EOI are in currencies other than INR or US\$, the Vendors/Contractors/Service Providers shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date on which the Audited Balance Sheet and Profit & Loss Account is signed. A CA Certificate is to be submitted by the Vendor/Contractor/ Service Provider/bidder regarding converted figures in equivalent INR or US\$.

**C) Others**

In case the Vendor/Contractor/ Service Provider is a Consortium of Companies, the Leader of the Consortium should satisfy the minimum requirements as per Para 7.A.1, 7.A.2, 7.A.3, above.

- (a) The consortium member(s) shall have to meet the Financial criteria mentioned in Clause No. 7.B, above. However, one of the Consortium (Leader) is to meet the above financial criteria of 50% turnover of the tender value. The other members of Consortium should meet minimum 25% turnover.
- (b) Consortium EOI(s) shall be submitted with a Memorandum of Understanding (MOU) between the consortium members duly signed by the authorized Executives of the consortium members clearly defining the role/scope of work of each partner/member, binding the members jointly and severally to the responsibility for discharging all obligations under the contract and identifying the Leader of Consortium. Unconditional acceptance of full responsibility for brief 'Scope of Work' by the Leader of the Consortium shall be submitted with the EOI.

In case the Vendor/Contractor/Service Provider is an Indian Company / India joint venture Company, the lead bidder should meet the criteria laid down in Para 7.A.1, 7.A.2,7.A.3. Also, the Indian Company/Indian Joint Venture Company who does not meet the minimum pre-qualifying criteria as per clause No. 7.A.1, 7.A.2, 7.A.3 may also submit the EOI on the strength of Technical Collaborator/Joint Venture Partner. However, the Primary Vendor/Contractor/ Service Provider shall have to meet the financial criteria mentioned in Clause Nos. 7.B above.

Any party who is extending technical support by way of entering into technical collaboration with another party shall not be allowed to submit an independent bid and such bids shall be rejected straightway. Further, all bids from parties with technical support from same principal will also be rejected.

EOI from Vendor/Contractor/ Service Provider, who themselves do not meet the experience criteria as stipulated in the Para 7.A.1, 7.A.2 ,7.A.3, ,7.B above can also be considered, provided the Bidder/ Vendor/Contractor/Service Provider is a 100% subsidiary company of the parent company which meets aforesaid experience criteria. In such cases, as the subsidiary company is dependent on the experience of parent company, the participating Vendor/Contractor/Service Provider should submit an agreement / Corporate Guarantee as per **Annexure-II**. However, the parent/ subsidiary company of the Vendor/Contractor/Service Provider should on its own meet the experience criteria as stipulated in the Pre-Qualifying Criteria and should not rely for meeting the experience criteria on its sister subsidiary / co-subsiary company or through any other arrangement like Technical Collaboration agreement.

## **8.0 INFORMATION & DOCUMENTS**

Vendor/Contractor/Service Provider must furnish the following in support of fulfilling all the above pre-qualifying criteria:

(a) **EOI No:**

(b) **Description:** EOI for Pilot Carbonated Water Injection (CWI) Services in Dikom Field of OIL

(c) Experience: Rendering Carbonated Water Injection (CWI) Services or Projects of same or similar nature completed or currently under progress during the past in tabular form with details of infrastructure built for such Projects along with List of the technology utilised for such contracts, copies of contracts / work orders and completion certificates / payment certificates issued by the clients, as **Annexure-I**.

(d) For bid submitted for a consortium of companies, the leader of the consortium should submit the documents in Para 8 a) as **Annexure-II**.

(e) Financial turnover of Vendor – Audited balance sheets / profit and loss accounts etc. as per format in **Annexure-III**.

(f) MOU or legally acceptable documents in support of tie-up arrangements, if any in support of points stipulated in Para 7

8.2 All documents submitted with the EOI must be self certified by the vendor's authorized person and duly **notorised**. However, OIL reserves the right to verify the original documents.

### **Notes:**

(i) All the copies of document submitted along with the EOI should be clear and legible.

- (ii) OIL INDIA LIMITED (OIL) reserves the right to physically check the original documents/certificates, copies of which are submitted along with the EOI.
- (iii) 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.
- (iv) OIL INDIA LIMITED (OIL) reserves the right to ignore any or all EOIs without assigning any reason thereof.
- (v) OIL INDIA LIMITED (OIL) reserves the right to curtail/enhance the scope of work stated above or cancel, if required, without assigning any reason thereof.

#### **9.0 CONTACT PERSON OF THE SERVICE PROVIDER**

- a) Name-
- b) Position-
- c) Telephone Number-
- d) Fax Number-
- e) Address-
- f) E-mail-

#### **10.0 UNDERTAKING BY SERVICE PROVIDER**

The following undertaking shall be provided by the intending Service Provider: -

*"The information provided in the support of qualification criteria is factually correct and the company meets the pre-qualification criteria".*

**11.0 SUBMISSION OF EOI:** Interested Parties/ Vendors/Contractors/Service Providers 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) within **28<sup>th</sup> October '2017**, followed by hard copies of the same in sealed envelopes super-scribing "EOI for Carbonated Water Injection (CWI) Services in Dikom Field of OIL"

**GM (CONTRACTS)  
OIL INDIA LIMITED  
CONTRACTS DEPARTMENT  
DULIAJAN-786602, ASSAM, INDIA**  
Phone: 91-374-2800548, Fax: 91-074-2803549,  
Email: [contracts@oilindia.in](mailto:contracts@oilindia.in) Website: [www.oil-india.com](http://www.oil-india.com)

Vendor/Contractor/ Service Provider 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 above specified period.

**12.0** Oil India Limited reserves the right to (a) either accept or reject any / all EOI(s) (b) cancel the process, without assigning any reason whatsoever.

**13.0** This EOI is not an invitation for bids. After reviewing the EOI, responding parties will be shortlisted and invited for technical presentations and submission of techno-commercial offers.

**14.0** In this line, a pre-tender meeting of prospective service providers. Time & Venue for the same shall be intimated separately.

**EXPERIENCE STATEMENT OF VENDOR**

**Mud Engineering Services**

Sl. No	Project Name	Customer/Partner	Project Start Date	Project End Date	Project awarded through nomination/competitive bidding	Project Details

N.B. : Please add rows in case of more experience.

**PARENT COMPANY GUARANTEE**

**(TO BE EXECUTED ON STAMP PAPER OF REQUISITE VALUE  
AND NOTORISED)  
DEED OF GUARANTEE**

THIS DEED OF GUARANTEE executed at ..... this ..... day of ..... by M/s ..... (mention complete name) a company duly organized and existing under the laws of ..... (insert jurisdiction/country), having its Registered Office at ..... hereinafter called "the Guarantor" which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assigns.

WHEREAS

M/s Oil India Limited, a company duly registered under the Companies Act 1956, having its Registered Office at Duliajan in the State of Assam, India, hereinafter called "OIL" which expression shall unless excluded by or repugnant to the context thereof, be deemed to include its successor and assigns, invited tender number ..... for ..... on .....

M/s ..... (mention complete name), a company duly organized and existing under the laws of ..... (insert jurisdiction/country), having its Registered Office at ..... (give complete address) hereinafter called "the Company" which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successor and permitted assigns, have, in response to the above mentioned tender invited by OIL, submitted their bid number ..... to OIL with one of the condition that the Company shall arrange a guarantee from its parent company guaranteeing due and satisfactory performance of the work covered under the said tender including any change therein as may be deemed appropriate by OIL at any stage.

The Guarantor represents that they have gone through and understood the requirement of the above said tender and are capable of and committed to provide technical and such other supports as may be required by the Company for successful execution of the same.

The Company and the Guarantor have entered into an agreement dated ..... as per which the Guarantor shall be providing technical and such other supports as may be necessary for performance of the work relating to the said tender.

Accordingly, at the request of the Company and in consideration of and as a requirement for OIL to enter into agreement(s) with the Company, the Guarantor hereby agrees to give this guarantee and undertakes as follows:

1. The Guarantor (Parent Company / **100% Subsidiary Company (Delete whichever not applicable)**) unconditionally agrees that in case of non-performance by the Company of any of its obligations in any respect, the Guarantor shall, immediately on receipt of notice of demand by OIL, take up the job without any demur or objection, in continuation and without loss of time and without any cost to OIL and duly perform the obligations of the Company to the satisfaction of OIL.



2. The Guarantor agrees that the Guarantee herein contained shall remain valid and enforceable till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Company.
3. The Guarantor shall be jointly with the Company as also severally responsible for satisfactory performance of the contract entered between the Company and OIL.
4. The liability of the Guarantor, under the Guarantee, is limited to the 50% of the annualized contract price entered between the Company and OIL. This will, however, be in addition to the forfeiture of the Performance Guarantee furnished by the Company.
5. The Guarantor represents that this Guarantee has been issued after due observance of the appropriate laws in force in India. The Guarantor hereby undertakes that the Guarantor shall obtain and maintain in full force and effect all the governmental and other approvals and consents that are necessary and do all other acts and things necessary or desirable in connection therewith or for the due performance of the Guarantor's obligations hereunder.
6. The Guarantor also agrees that this Guarantee shall be governed and construed in accordance with the laws in force in India and subject to the exclusive jurisdiction of the courts of ....., India.
7. The Guarantor hereby declares and represents that this Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.
8. The Guarantor represents and confirms that the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

For & on behalf of (Parent Company/Subsidiary Company (Delete whichever not applicable))

M/s \_\_\_\_\_

Witness:

1. Signature \_\_\_\_\_  
 Full Name \_\_\_\_\_  
 Address \_\_\_\_\_

Signature \_\_\_\_\_  
 Name \_\_\_\_\_  
 Designation \_\_\_\_\_

Common seal of the  
 Company \_\_\_\_\_

Witness:

2. Signature \_\_\_\_\_  
 Full Name \_\_\_\_\_  
 Address \_\_\_\_\_

**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/ Vendors/Contractors/Service Providers) for the last three (3) completed accounting years upto .....**(as the case may be)** are correct.

<b>YEAR</b>	<b>TURN OVER</b> In INR (Rs.) Crores / US \$ Million)	<b>NET WORTH</b> In INR (Rs.) Crores / US \$ Million)

\*Rate of Conversion (if used any): USD 1.00 = INR.....

Place:

Date:

Seal:

Membership No. :

Registration Code:

Signature

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