

OIL INDIA LIMITED

DULIAJAN

EXPRESSION OF INTEREST (EOI)

EOI No.: EOI/FE/C/374/21 Dated 22.04.2021

Subject: Expression of Interest for “Identifying Potential Vendors / firms /Service Providers in India for Design, Supply, Installation & Commissioning of Comprehensive Ground Water Treatment Facility in Shalmari Water Injection & Moran Water Injection”

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 is currently locating & developing ground water through Deep Tube Wells for various Water Injection Stations of Oil India Limited (OIL). The treated ground water is then supplied to the suction manifold of Water Injection Stations for injecting water to the water wells. For treating of ground water, presently OIL is using HDPE & Metal combined surface filters at the delivery of the Submersible Pump-sets installed in Deep Tube Well which mainly helps to remove Iron in the ground water. To further improve the quality of ground water, OIL has been planning to install two numbers of comprehensive ground water treatment facilities for Shalmari Water Injection Station & Moran Water Injection Station.

2.0 OBJECTIVE:

There is a gap between un-treated ground water parameters measured at source Tube Wells of Shalmari WI & Moran WI and desired quality of ground water after treatment. Water Injection rates of Shalmari WIS & Moran WIS are 70 KL/ Hr & 50 KL/Hr respectively. In absence of proper water treatment facility, effective water injection vis-à-vis reservoir pressure management are severely affected due to development of various scales inclusive of corrosive products and bacterial slimes.

Table-1: Details of un-treated ground water parameters measured at source Tube Wells of Shalmari WI & Moran WI are furnished below:

Sl. No.	Parameters	WIS#Moran	WIS#Shalmari
1	pH	7.55	7.59
2	DO (ppm)	0.72	2.26
3	Turbidity (NTU)	18.59	66.49
4	TSS (ppm)	16.71	3.14
5	Filterability (min/2L)	4.61	4.59
6	Fe (ppm)	8.69	1.85
7	SO4 (ppm)	13.06	10.56
8	Manganese (ppm)	0.35	0.05
9	Alkalinity as CaCO3 (ppm)	90.5	122.3

10	Carbonate (ppm)	0.0	0.0
11	Bicarbonate (ppm)	108.5	149.0
12	Sodium (ppm)	10.0	8.2
13	Magnesium (ppm)	9.1	18.3
14	Chloride (ppm)	5.6	6.6
15	TDS (ppm)	151.8	171.2
16	Calcium (ppm)	11.0	11.8

Table-2: Details of desired water quality of injection water (after water treatment) have been furnished below:

Sl. No.	Parameters	Unit	Value
1	pH	-	6.50 - 8.50
2	DO	ppm	< 0.02
3	Turbidity	NTU	< 0.50
4	TSS of size a) Compulsorily < 20 µm b) Preferably < 5.0 µm**	Ppm ppm	< 2.5 < 20.0
5	Filterability (through 0.45 µ Filter)	min/2L	< 10.0
6	Iron content	ppm	< 0.20
7	Total hardness	ppm	20.0 – 30.0
8	Bacteria count	cfu	< 100

To mitigate the gap between un-treated ground water parameters and desired water quality of injection water, OIL plans to utilize the services of Service Providers/Agencies/Firms who have the expertise in Design, Supply, and Installation & Commissioning of Comprehensive Ground Water Treatment Facility. Accordingly this EOI is floated for seeking expression of interest (EOI) from suitably experienced Service Providers / Agencies / Firms for Design, Supply, and Installation & Commissioning of Comprehensive Ground Water Treatment Facility.

3.0 LOCATION OF THE AREA:

Shalmari & Moran fields, where the comprehensive ground water treatment system will be implemented are located at a distance of around 36 Km & 90 Km (approx.) respectively from Duliajan town in Assam.

4.0 BROAD SCOPE OF WORK:

Scope of work under this EOI broadly encompasses the followings:

- i) To design a comprehensive ground water treatment system/ Plant of minimum capacity 70 KL/ Hr including all required Instrumentation and control facilities; necessary Piping, Valves, Gauges, Meters etc. complete that is capable to meet the OIL's requirements as mentioned in Table-2 above. In addition, the following arrangements have to be included in the proposed design:
 - Arrangement for non-precipitation of ferric compound
 - Dosing of Corrosion inhibitor
 - Dosing for Water Softening &/ or scale inhibitor
 - Spare dosing systems for bactericide dosing, clay stabiliser etc.

ii) To provide Quotation for the proposed ground water treatment system/ Plant complete inclusive of additional arrangements as mentioned in the point i). The **Potential Vendors / firms /Service Providers** should mention requirement justifications of each equipment/ facility of the proposed ground water treatment system/ Plant to fulfil OIL's requirements as mentioned in Table-2 & additional requirements complete.

iii) To provide undertaking for Supply, Installation & Commissioning of entire ground water system for which the party participated in EOI & also selected by OIL.

iv) **Potential Vendors / firms /Service Providers** to note that Land, Air, Water, Electricity etc. will be provided by OIL for the proposed ground water treatment facilities at Moran & Shalmari Water Injection Stations. However, **Potential Vendors / firms /Service Providers** has to provide requirements such as approximate quantity of land, power and any other utilities required for the proposed ground water treatment system.

5.0 SAFETY AND OTHER COMPLIANCES:

The **Potential Vendors / firms /Service Providers** is expected to have established health, safety, security and environment management system and shall have to comply with the applicable and prevailing provisions of The Mines Act, 1952, OMR 2017, OISD (Oil Industry Safety Directorate) guidelines, Labour laws/ rules & Amendments, MoE&F (Ministry of Environment and Forest) directives of India and any other applicable statutory regulations as per the law of the land.

6.0 The **Potential Vendors / firms /Service Providers** shall have to demonstrate their experience and capability against this EOI at Pre-tender meeting.

7.0 Potential **Vendors / firms /Service Providers** may be Indian Company/ Indian joint venture Company with Technical Collaboration/Joint Venture partner.

8.0 Potential **Vendors / firms /Service Providers** may provide the following Information:

- Details of **Potential Vendors / firms /Service Providers** Company Incorporation along with Date and Place of Incorporation.
- Number of employees in the Company.
- Details of R&D/ Technology centers set up in India/ foreign countries.
- Contact Details

Name of concerned person	
Designation	
Telephone number	
Mobile number	
Fax number	
Address	
e-mail	

9.0 GENERAL NOTES:

(i) All documents submitted along with the EOI should be clear & legible.

(ii) The EOI is liable to be ignored in case of submission of any misleading / false representation by the **Potential Vendors / firms /Service Providers** / Company.

(iii) OIL INDIA LIMITED reserves the right to ignore any or all EOIs and also to curtail/ enhance the scope of work stated above, if required, without assigning any reason thereof.

(iv) This EOI is non-binding in nature and submission of information should not be considered as shortlisting / selection for company in any subsequent RFP/ Tender/ Bid process that may be undertaken in future.

(v) OIL reserves the right to terminate the EOI process at any point of time without assigning reason.

(vi) No participant shall contact OIL on any matter relating to the EOI after the last date of submission of EOI unless requested for so in writing. Any effort by the bidder to influence OIL in the decision

making in respect of EOI will result in the rejection of that bidder.

(iv) Based on the responses received against this invitation, a virtual meeting/ offline discussion (as per convenience of OIL) may be held with the responding **Potential Vendors / firms /Service Providers** / Company to discuss on the information/ views submitted. Date and time shall be intimated separately.

10.0 SUBMISSION OF EOI:

10.1 Interested Vendors / firms /Service Providers having relevant experience and expertise are invited to submit their EOI(s) at our e-mail ids: nabajyoti_neog@oilindia.in / m_ao@oilindia.in within 31st May '2021 up to 15:00 Hrs (IST) or hard copies in sealed envelopes super-scribing **“Expression of Interest (EOI) NO. EOI/FE/C/374/21 Dated 22.04.2021 for Identifying Potential Vendors / firms /Service Providers in India for Design, Supply, Installation & Commissioning of Comprehensive Ground Water Treatment Facility in Shalmari Water Injection & Moran Water Injection”** through courier/ post to the following address:

**CGM-FE (HoD)
OIL INDIA LIMITED
FIELD ENGINEERING DEPARTMENT
P.O.: DULIAJAN-786602
DIST. DIBRUGARH, ASSAM, INDIA**

10.2 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 reason(s), EOI(s) shall be received up to the next full working day till 15:00 Hrs. (IST) and opened accordingly. EOI may be sent by e-mail /post/ courier service or delivered personally at the office of CGM-FE (HoD), Oil India Limited, Duliajan-786602, Assam. However, OIL shall not be responsible for any consequence arising out of delay in receipt or non-receipt of EOI.

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

10.4 Parties will be shortlisted based on their EOIs submitted and will be called for a pre-tender meeting where they will get an opportunity to give a presentation of their proposal with completion timeline. Date & Venue for the same shall be intimated separately.

XXXXXXXXXXXXXXXXXXXX