

OIL INDIA LIMITED

DULIAJAN

EXPRESSION OF INTEREST (EOI)

NO.: EOI/PSS/STF-EOI/2025-26/002 dated 06.02.2026

Subject: Expression of Interest (EOI) for “Setting up a modular Desalination Plant (Zero Liquid Discharge) for treating Effluent Treatment Plant treated water of 3000 KLPD processing capacity at STF-Madhuban, Duliajan, Assam to generate permeate water suitable for industrial re-use / surface drainage on Engineering, Procurement & Construction (EPC) and Operation & Maintenance (O&M) for 05 years execution mode.”

1. **PREAMBLE**

OIL INDIA LIMITED (OIL), is a Maharatna Central Public Sector Enterprise under the Ministry of Petroleum and Natural Gas and is the premier up-stream E&P Company engaged in the business of Exploration, Production & Transportation of Crude Oil & Natural gas as well as production of LPG, having its Headquarter at Duliajan, Assam in India. Its operations are largely based in the north-eastern parts of India particularly in Assam and Arunachal Pradesh but have also extended its activities in different parts of the India and abroad. In connection with its ongoing exploration & production activities in the State of Assam, OIL invites Expression of Interest (EOI) from reputed and established equipment & service supplier / contractor as mentioned below for **Design, Fabrication / Construction, Supply, Installation & Commissioning, and executing operation & maintenance (for 05 years) of a modular Desalination Plant (Zero Liquid Discharge) of 3000 KLPD capacity at STF (Secondary Tank Farm)-Madhuban, Duliajan, Assam, India.**

2. **SCOPE OF WORK:**

OIL intends to set up and operate a modular Desalination Plant (Zero Liquid Discharge) for treating Effluent Treatment Plant treated water of 3000 KLPD processing capacity at STF-Madhuban, Duliajan, Assam to generate permeate water suitable for industrial re-use / surface drainage on Engineering Procurement & Construction (EPC) and Operation & Maintenance (O&M) for 05 years execution mode (*Desalination Plant with non- steam MVRE*).

3. **OBJECTIVE:**

- 3.1. To have inputs from the prospective contractor to firm up the technical specifications and scope of supply and other conditions.
- 3.2. To understand the prospective contractor’s experience, technical knowhow, and financial capability.

- 3.3. To assess contractor interest to determine the level of industry interest, technology fitment for the site conditions, etc.
- 3.4. To use the insights from EOI responses to improve bid participation for the forthcoming EPC and O&M tender.
- 3.5. To explore innovative, energy-efficient and cost-effective technologies for minimizing energy consumption, reducing operational footprint.
- 3.6. To understand market capability, execution timelines, contractor capacity and resource deployment plans, etc.
- 3.7. To understand the system for handling desalination by-products, including their potential reuse or environmentally compliant disposal by the prospective contractors.

4. SAFETY AND OTHER COMPLIANCES:

The contractor is expected to have established health, safety, security and environment management system and shall have to comply with all applicable local regulations with respect to Safety, Pollution, Labour laws/ rules & Amendments taxes & levies as and where applicable and any other applicable statutory regulations as per the law of the land.

- 5. The contractor may be a Designer/ Manufacturer/ Supplier/ Distributor/ System Integrator/ Service provider of Desalination Plant (ZLD) (or Plant having RO system + Salt Dryer system as major equipment) having adequate experience of design, construction/ fabrication, supplying all components including installation and commissioning required to perform a successful desalination (ZLD) and should demonstrate their experience and capability against this EOI.

6. The contractor may provide the following information at the earliest possible, preferably on or before 10th February 2026:

- 6.1. Details of the contractor Company Incorporation along with Date and Place of Incorporation.
- 6.2. Contact Details

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

7. GENERAL NOTES:

- 7.1. All documents submitted along with the EOI should be clear & legible.
- 7.2. The EOI is liable to be ignored in case of submission of any misleading/ false representation by the contractor.
- 7.3. OIL INDIA LIMITED reserves the right to ignore any or all EOIs and to curtail / enhance the scope of work stated above, if required, without assigning any reason thereof.

- 7.4. 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.
- 7.5. OIL reserves the right to terminate the EOI process at any point of time without assigning reasons.
- 7.6. Based on the responses received against this invitation, a virtual meeting / offline discussion(s) / hybrid meeting(s) (as per convenience of OIL) may be held with the responding contractor to discuss on the information/ views submitted. Date and time shall be intimated separately.

8. SUBMISSION OF EOI:

- 8.1. Interested contractor having relevant experience and expertise are invited to submit their EOI(s) at our email ids: mukesh.sharma@oilindia.in / abhishek.baruah@oilindia.in within 26.02.2026 up to 15:00 Hrs (IST) or hard copies in sealed envelopes super-scribing “Expression of Interest (EOI) No. EOI/PSS/STF-EOI/2025-26/002 dated 06.02.2026 *Setting up a modular Desalination Plant (Zero Liquid Discharge) for treating Effluent Treatment Plant treated water of 3000 KLPD processing capacity at STF-Madhuban, Duliajan, Assam to generate permeate water suitable for industrial re-use/ surface drainage on Engineering Procurement & Construction (EPC) & Operation & Maintenance (O&M) for 05 years execution mode.*” through courier/ post to the following address:

CGM-PSS (HoD)
OIL INDIA LIMITED
PSS DEPARTMENT
P.O. DULIAJAN-786602
DIST. DIBRUGARH, ASSAM, INDIA

- 8.2. 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-PSS, 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.
- 8.3. ANNEXURE-I (Notes to Respondent) provided along with this EOI to be referred for additional information such as feed water parameters and permeate water parameters, utilities, etc.
- 8.4. *Respondent to submit the documents as per point 10. of ANNEXURE-I (Notes to Respondent) along with the EOI.*
- 8.5. Oil India Limited reserves the right to (a) either accept or reject any EOI, (b) cancel the process, without assigning any reasons (s) whatsoever.

NOTES TO THE RESPONDENT

1. APPROACH TO SITE

Duliajan is well connected to the rest of India by air, rail as well as roads. The nearest airport is 48 km away in Dibrugarh. Dibrugarh airport is connected by regular flights from Kolkata (the nearest international airport) and New Delhi. Besides there is also an air route to Dibrugarh from Guwahati, the capital city of Assam. The nearest railway station is Duliajan. Four major inter-state express trains operate on the rail link close to Duliajan. Three of these trains originate from New Delhi and one from Kolkata. The nearest stoppages are at Tinsukia (30km) and Dibrugarh town (50 Km). An inter-city shuttle plies daily between Dibrugarh and Guwahati (495 km). Duliajan is easily accessible by road by a branch-off (40 km) from the nearest national highway (NH-37). Duliajan is also well connected to the nearest district headquarters of Tinsukia (30km) and Dibrugarh (50 km).

2. LOCATION OF SERVICE

The service of Desalination Plant will be utilized at Secondary Tank Farm, Madhuban, Oil India Limited, Assam.

3. AREA AVAILABLE

Land Area: 30m X 40m inside OIL Mine Installation. The land area is approachable via road within the STF-Madhuban plant.

4. EPC WORK

The EPC work shall be inclusive of all but not limited to design, supply, installation & commissioning of the 3000 KLPD modular Desalination Plant on Zero Liquid Discharge Basis required for successful completion of project including PGTR.

5. O&M SERVICE

O&M service for 3000 KLPD modular Desalination Plant on Zero Liquid Discharge Basis shall be inclusive of:

- i. The O&M of the Plant shall include all the Operations and Maintenance activities including chemicals, lubricants, consumables and minor spares, skilled, semi-skilled and unskilled manpower.
- ii. The plant shall be manned and operational 24x7 in 8 hrs. shift on a rotation basis.
- iii. This shall also include safe handling of the solid extract generated as a process of desalination including but not limited to weighing, packaging, loading, unloading, transportation, end-use-certificate, disposal/re-use, etc.

6. DESALINATION PLANT FEED WATER (CLARIFIED WATER) PARAMETERS

Desalination Plant Feed Water (Clarified Water) Parameters				
Sl. No.	Parameters	MIN Value	MAX Value	Unit
1	pH	6	9	
2	Temperature	25	40	°C
3	Suspended Solids	10	100	mg/l
4	Zinc	0	2	mg/l
5	BOD	0	200	mg/l
6	COD	0	400	mg/l
7	Chlorides	600	2500	mg/l
8	Sulphates	0	100	mg/l
9	TDS	2000	4500	mg/l
10	% Sodium	30	100	mg/l
11	Oil & Grease	0	10	mg/l
12	Phenolics	0	1.2	mg/l
13	Cyanides	0.01	1.2	mg/l
14	Fluorides	0.1	1.5	mg/l
15	Sulphides	0.02	2	mg/l
16	Chromium (Cr+6)	0.01	0.1	mg/l
17	Chromium (Total)	0.01	1	mg/l
18	Copper	0.02	0.2	mg/l
19	Lead	0.01	0.1	mg/l
20	Mercury	0	0.01	mg/l
21	Nickel	0.1	3	mg/l

7. DESALINATION PLANT OUTPUT (Desalinated water/permeate water) parameters as per Annexure-B of Standards for Oil Drilling and Gas Extraction Industry, as per the Environment Rules, 1986.



ANNEXURE - B

STANDARDS FOR OIL DRILLING AND GAS EXTRACTION INDUSTRY
(As per the Environment (Protection) Rules, 1986)

A. STANDARDS FOR LIQUID EFFLUENT

1.0 On-Shore facilities(For Marine Disposal)

pH	5.5—9.0
Oil & Grease	10 mg/l
Suspended solids	100 mg/l
BOD(3 days at 27°C)	30 mg/l

Note :

- i) For on-shore discharge of effluents, in addition to the standards prescribed above, proper marine outfall has to be provided to achieve the individual pollutant concentration level in sea water below their toxicity limits as given below, within a distance of 50 metre from the discharge point, in order to protect the marine aquatic life :

Parameter	Toxicity limit (mg/l)
Chromium as Cr	0.1
Copper, as Cu	0.05
Cyanide, as CN	0.005
Fluoride, as F	1.5
Lead, as Pb	0.05
Mercury, as Hg	0.01
Nickel, as Ni	0.1
Zinc, as Zn	0.1

- ii) Oil and gas drilling and processing facilities, situated on land and away from saline water sink, may opt either for disposal of treated water by on-shore disposal or by re-injection in abandoned well, which is allowed only below a depth of 1000 metres from the ground level. In case of re-injection in abandoned well the effluent have to comply only with respect to suspended solids and oil and grease 100 mg/l and 10 mg/l, respectively. For on- shore disposal, the permissible limits are given below.

Sl. No.	Parameter	On-shore discharge standards (Not to exceed)
1.	pH	5.5—9.0
2.	Temperature	40°C
3.	Suspended Solids	100 mg/l
4.	Zinc	2 mg/l
5.	BOD	30 mg/l
6.	COD	100mg/l
7.	Chlorides	600 mg/l
8.	Sulphates	1000 mg
9.	TDS	2100 mg
10.	%Sodium	60 mg/l
11.	Oil and Grease	10 mg/l
12.	Phenolics	1.2 mg/l
13.	Cyanides	0.2 mg/l
14.	Fluorides	1.5 mg/l
15.	Sulphides	2.0 mg/l
16.	Chromium(Cr+6)	0.1 mg/l
17.	Chromium (Total)	1.0 mg/l
18.	Copper	0.2 mg/l
19.	Lead	0.1 mg/l
20.	Mercury	0.01 mg/l
21.	Nickel	3.0 mg/l

13/8/13

8. UTILITIES AND THEIR SCOPE

Sl. No.	Description	Scope of M/s OIL	Scope of the Contractor
1.	Compressed Air System	No	Yes, as required. (e.g. instrument air for valve actuation, utility air)
2.	Service Water	Yes	No, however, interconnection from battery limit to the plant is in EPC scope.
3.	Electrical Power	Yes	No, however, evacuation of power is in the scope of EPC.
4.	Chemical Utilities	No	Yes
5.	Cooling System	No	Yes
6.	HVAC & Ventilation	No	Yes, as required.
7.	Instrumentation & Control Utilities	No	Yes
8.	Storage & Handling Facilities	No	Yes
9.	Drainage & Waste Handling Utilities	No	Yes
10.	Laboratory Facilities	No	Yes
11.	Fire & Safety Utilities	No, however, fire water network will be extended to Desalination site.	Yes

9. TERMINATION POINTS

Sl. No.	Description	Location	Scope
1.	Desalination feed water supply	Up to Desalination Plant site from M/s OIL Clarified Water Tank. (Note: Pipeline laying for this from M/s OIL Clarified Water Tank to Desalination Plant site will be done by M/s OIL)	Contractor
2.	Individual equipment drains into drain trenches	At the bottom level of the individual equipment	Contractor
3.	Drain water	At a nearby drain line	Contractor
4.	RO Permeate	Up to inlet flange of M/s OIL Permeate Water Tank outside Desalination Plant Site. (Note: Pipeline laying for this from Desalination site to M/s OIL Permeate Water Tank will be done by M/s OIL)	Contractor
5.	SALT DRYER Moisture Powder	At the bottom of salt dryer	Contractor
6.	Non-Steam MVRE + SALT DRYER Condensate Water	To RO Permeate tank within Desalination site	Contractor
7.	Chemical Supply	At respective dosing tanks	Contractor
8.	Power Evacuation	Up to Desalination plant site	Contractor
10.	Earthing System	Above ground earthing	Contractor
11.	Instrument Air	Within the battery limit	Contractor

10. DOCUMENTS TO BE SUBMITTED BY THE RESPONDENT ALONG WITH EOI

Annexure No.	Description	Remarks
Annexure-1	Brief Scope	For EPC works, Inclusions/ exclusions
Annexure-2	Design Basis	If any, other than desalination feed water parameter and desalination plant output/ permeate water
Annexure-3	Process Design	With a process flow diagram and operating/ control philosophy
Annexure-4	Plant Data	Proposed treatment schemes like settling system, multigrade filter, UF, RO system, etc.
Annexure-5	System Description	Description of major equipment
Annexure-6	Electro-mechanical scope of supply	Detailed list of Electro – Mechanical Equipment envisaged for the project (including quantity, capacity/size, MOC, etc.). Electrical, Control & Instrumentation, Tentative list of field instruments, etc.
Annexure-7	Non-Steam MVRE + Salt Dryer Technical Specification	Design Basis, Technical Specifications, Utility, Equipment Technical Specifications, etc.
Annexure-8	List of Civil Structures	Detailed list of civil and structural units envisaged for the project.
Annexure-9	Mechanical Specification	Design basis for designing the plant, Equipment, Piping Specification, Valve Specification, etc.
Annexure-10	Instrumentation Specification	
Annexure-11	Electrical Specification	Including electrical load list and expected power requirement.
Annexure-12	Schedule of Exclusions	
Annexure-13	Termination Points	Remarks on above termination points and additional if any.
Annexure-14	List of additional documents	Proposed sub-vendor/contractor list and any other documents deemed necessary.
Annexure-15	Estimated Project Schedule	After Contract Acceptance
Annexure-16	Plant Layout	Respondent to ensure minimum footprint for the modular plant.
Annexure-17	Respondent's Credentials	Respondent experience in executing desalination projects (ZLD) or similar jobs in last 05 years along with financial capability.
Annexure-18	Improved Technology	If any, innovative, energy-efficient and cost-effective technologies for minimizing energy consumption, reducing operational footprint, etc.
Annexure-19	Legal Compliance	Consolidated Consent and Authorization (CC&A) and other statutory, regulatory, and safety compliance including approvals, permissions, licenses, etc.
Annexure-20	Manpower List	List of Manpower, designation and their qualification for operating and maintaining the plant 24x7, 365 days.

*****END OF THE DOCUMENT*****