EXPRESSION OF INTEREST (EOI)
FOR
SUPPLY, INSTALLATION & COMISSIONING OF HIGH PRESSURE SEALLESS / MINIMAL LEAKAGE PUMPS FOR CRUDE OIL DISPATCH AND WATER INJECTION SERVICE

EOI No.: EOI/FE/ICE-F/002/2026

DESCRIPTION:

SUPPLY, INSTALLATION & COMMISSIONING OF HIGH PRESSURE SEALLESS / MINIMAL LEAKAGE PUMPS FOR CRUDE OIL DISPATCH AND WATER INJECTION SERVICE

1.0 PREAMBLE:

OIL INDIA LIMITED (OIL), a Government of India Enterprise under the Ministry of Petroleum and Natural Gas, is a premier upstream Maharatna E&P Company engaged in the business of Exploration, Production & Transportation of Crude Oil & Natural Gas. Its Field Headquarters (FHQ) is at Duliajan, Dibrugarh district, Assam (INDIA) and Corporate Office is in Noida, UP (INDIA). OIL's operations are largely based in the North-Eastern parts of India particularly in Assam, Arunachal Pradesh, and Tripura. Additionally, OIL operates in Rajasthan, Andhra Pradesh, Andaman and Kerala-Kankan and also has overseas presence.

2.0 OBJECTIVE:

Oil India Limited operates several crude oil dispatch pump sets and water injection pump sets across its installations. These pumps are deployed for transportation of crude oil through pipelines and for injection of treated effluent water into reservoirs as part of secondary recovery operations aimed at maintaining reservoir pressure and enhancing hydrocarbon recovery.

The pump systems are generally high-pressure duty pumps installed in remote oilfield locations, where uninterrupted and reliable operation is essential for sustaining production continuity and effective reservoir pressure management. Considering the critical nature of these services, the pumps are required to operate under continuous field operating conditions for prolonged durations, with minimal operational interruptions and reduced maintenance requirements.

Accordingly, the pump systems proposed under this Expression of Interest (EOI) shall be robust, suitable for continuous duty service, and capable of delivering reliable performance in remote oilfield installations operating under demanding service conditions. The offered pump systems should therefore be designed to ensure high operational reliability, ease of maintenance, and long service life under harsh field environments typical of upstream oil and gas operations.

Traditionally, triplex plunger pumps conforming to API-674 have been widely used for such services. These pumps are capable of delivering the required pressure and flow and are considered robust for oilfield applications. However, such pumps require gland packing arrangements around the plunger shafts.

In practical field conditions, gland packing requires periodic tightening and replacement, and minor gland leakage may occur during operation despite regular maintenance.

Although such leakage may be technically manageable, it may create certain operational and safety challenges including:

- Oil leakage near rotating equipment creating housekeeping and slip hazards
- Presence of hydrocarbons in the vicinity of equipment increasing potential fire risk
- Frequent maintenance intervention for gland packing adjustment

- Operational challenges in remote or unmanned installations

In addition to operational issues, leakage of crude oil into the surrounding environment may lead to contamination of soil surfaces, drainage systems, or effluent water channels, particularly in outdoor installations.

Apart from crude oil dispatch pumps, similar high-pressure pumps are also used in water injection systems for secondary recovery operations. In these systems treated effluent water is injected into the reservoir through high-pressure pumps in order to maintain reservoir pressure and enhance crude oil recovery.

Leakage of injected water from pump glands may also result in spillage and contamination of surrounding ground surfaces, which is undesirable from both operational and environmental protection perspectives.

In view of the above, OIL intends to explore whether alternative pump technologies are available that can minimize or eliminate gland leakage, while delivering the required hydraulic performance for both crude oil dispatch service and water injection service.

Such technologies may include sealless pumps or any other equivalent designs capable of preventing or minimizing process fluid leakage.

Properties of fluid to be handled(Crude Oil)

API Gravity at 60 Deg F	30	Discharge: 25 m^3/hr, 40 m^3/hr, 60 m^3/hr @ 70 kg/cm^2
PH	7.2	
Salinity (ppm)	4400	
CO_3	NIL	
HCO_3	305	
Pour Point (Deg C)	27	
Water Content (% v / v)	21	
Pumping Temp	34 to 35 Deg C	
Viscosity	13 cp @ 26 Deg C, 17 cp @ 24 Deg C, 29 cp @ 22 Deg C	
Sp. Gravity	0.8574 @ 35 Deg C and 0.8718 @ 15 Deg C	

Properties of fluid to be handled (Water Injection)

Characteristics	Unit	F	
Appearance	-	Clear	Discharge: 25-30 m^3/hr@ 125 kg/cm^2
Turbidity	NTU	3.42	
pH	-	7.4	
Iron (as Fe)	mg/l	0.43	
Salinity (as NaCl)	mg/l	8	
Chloride (as Cl)	mg/l	5	
Total Hardness (as CaCO3)	mg/l	98	
Total Suspended Solids	mg/l	17	

Total Dissolved Solids	mg/l	92	
Dissolved Oxygen	mg/l	6.7	
Oil & Grease	mg/l	BDL	

3.0 DELIVERABLES:

After submission of EOIs, shortlisted bidders may be invited to deliver a presentation to OIL regarding the feasibility of supply, installation, and commissioning of Pumps along with Prime Movers for the purpose mentioned above, as part of a future open tender process.

4.0 SUBMISSION OF EXPRESSION OF INTEREST:

Interested parties are requested to submit their EOIs in electronic format to saurav.suman@oilindia.in, dj_sonowal@oilindia.in or hard copy may be submitted to the following address no later than **27.04.2026:**

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

The EOI shall include the following information:

i. Company profile
ii. Technical Datasheets for Pump, Prime Movers, and Transmission System
iii. List of executed order for supply, installation and commissioning in the past 05 years
iv. Proven Track Record, if any

Note: Based on inputs from the received EOIs, a detailed Scope of Work will be prepared and shared for obtaining Budgetary Quotations for OIL's future open tender.

5.0 GENERAL NOTES:

a) All documents/brochures submitted along with the EOI shall be self-certified and clear & legible.
b) The EOI is liable to be ignored in case of submission of any misleading/false representation.
c) OIL reserves the right to ignore any or all EOI bids, without assigning any reason thereof.

6.0 CONFIDENTIALITY:

All information provided during the EOI process will be treated as confidential and used solely for the purpose of evaluating submissions and thereby enabling OIL to prepare a final Scope of Work for OIL's upcoming open tender.

Please note that this invitation does not constitute a commitment to award the project or provide any form of reimbursement for costs incurred during the preparation of the EOI.

For any clarifications or queries, please feel free to contact us at saurav.suman@oilindia.in/dj_sonowal@oilindia.in. We look forward to receiving your Expression of Interest and exploring the potential of working together on this project.

****