



EXPRESSION OF INTEREST (EOI) NO. OIL/RF/EOI/015/2024 FROM INTERESTED ENTITIES FOR HIRING OF GAS DEHYDRATION UNIT ALONG WITH OPERATION AND MAINTENANCE FOR NATURAL GAS IN THE BAKHRITIBBA NEWLY ACQUIRED DISCOVERED SMALL FIELD (DSF) BLOCK OF OIL INDIA LIMITED, RAJASTHAN.

1. INTRODUCTION

OIL INDIA LIMITED (OIL) a premier National Oil Company having “Maharatna” status under Ministry of Petroleum and Natural Gas, Govt. of India is operating in Rajasthan and having an established sizeable reservoir of natural gas from its Jaisalmer Petroleum Mining Lease (PML) block comprising of three fields. These fields are located approximately at a distance of 120 kms of North-West of Jaisalmer Township. OIL RF is currently producing natural gas from the Dandewala and Bagitibba fields under the Rajasthan Asset. We have recently acquired the DSF block Bakhritybba, and the drilling of well BGT#04 is nearing completion. Additionally, new wells are lined up for drilling. The Glycol Dehydration Unit (GDU) is required for installation in existing set up as a measure of improving the quality of gas and supplying bone dry gas to customers.

2. THE SALIENT POINTS WITH RESPECT TO AVAILABILITY OF NATURAL GAS ARE AS UNDER:

- a) OIL will produce around 50000 - 200000 SCM/day of Natural gas from its Bakhritybba DSF block and probable Gas composition(mol%) & calorific value (Kcal/SCM) is as per the following table:

Composition	OIL Gas (Mol %)
METHANE	59.21
ETHANE	0.12
PROPANE	0.00
ISO-BUTANE	0.00
N-BUTANE	0.00
ISO-PENTANE	0.23
N-PENTANE	0.00
C6+	0.00
NITROGEN	38.33
CARBON DIOXIDE	2.12
TOTAL	100.00
CALORIFIC VALUE (Kcal/SCM)	
Gross	5438
Net	4899
Specific Gravity	0.7383



Formation water test report

Particulars	Results
Appearance	Turbid
pH	6-7
Salinity as NaCl (ppm)	30000 - 50000
Carbonate (ppm)	NIL
Bi-Carbonate (ppm)	610
Hardness as Ca ²⁺	200 - 300
Hardness as Mg ²⁺	725 - 825
Density (PPG)	8.4

- b) Outlet and inlet parameters of GDU are as following:
- Outlet parameter
 - Pressure: 5 to 15 Bar
 - Temperature: Atmospheric
 - Moisture Content: <7 lbs/mmscf
 - Inlet parameters
 - Inlet pressure: 5 to 15 Bar
 - Moisture Content: Saturated gas
 - Specific Gravity of gas 0.92
- c) The interested entity shall make required arrangement including pipeline, compression etc. to meet above parameters at their own cost and risk.
- d) The operation of the unit is continuous with a turndown ratio of 30%. The CO₂ gas content of the stream could be as high as 24 -26% CO₂. The feed stream pressures can vary between 5 to 15 Bar. The feed temperature will vary between 15 and 500 C. The dehydrated gas is defined as bone dry and the permissible maximum water content of the dehydrated gas stream shall not exceed 7 lbs/MMSCF and acceptable dew point shall be (-) 20 C maximum.
- e) MOC Material of Construction will be Stainless Steel.
- f) Glycol Dehydration Unit (GDU) and its piping's must be of SS-304L or better metallurgy. Pipe shall be of Schedule-80 Seamless, Flanged connections shall be ANSI-600 class, RTJ type. All valves and fittings shall be of ANSI-600 class rating and of suitable metallurgy compatible with the Glycol Dehydration Unit (GDU).
- g) All controls should operate in fail safe mode.
- h) The Glycol Dehydration Unit (GDU) shall be equipped with Safety relief valve, PIs, TIs, level gauges with easy views and LLI mounted on the body.
- i) Glycol Dehydration Unit (GDU) to be equipped with P/I converter to integrate with existing SCADA system for all data like gas inlet & outlet parameters.
- j) Gas outlet line connected with pneumatic PIC and PVC along with P/I converter (to integrate with existing SCADA system) having isolation valves at both ends of the control valve and a bypass arrangement.
- k) The period for above services will be five (5) years.



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

Rajasthan Asset, Rajasthan Field
2A, District Shopping Centre, Saraswati
Nagar, Basni, Jodhpur-342005, Rajasthan,
India.
Phone-0291-2729528, Fax: 0291-2727050

l) The unit of measurement:

- a) The unit of volume measurement of Gas will be Standard Cubic Metre (SCM).
- b) The unit of net calorific value measurement will be Kcal/SCM (Kilo Calorie per Standard Cubic Metre). However, the unit of Calorific Value for Invoicing will be MMBTU (Million British Thermal Unit).

3. METHODOLOGY OF SELECTION OF A SUITABLE PROJECT FOR UTILISATION OF NATURAL GAS:

Interested entities may submit their interest against this EOI, indicating the Industrial Sectors they belong to, while submitting the EOI.

- a) It is worth mentioning here that OIL has potential to maintain the availability of natural gas at rate of 50000 - 200000 SCM/day from the above-mentioned field.
- b) It may be mentioned here that the parties offering better economics to OIL will be selected for their offered project.
- c) Party may visit the site to have a better understanding of the whole system.

4. INFORMATION TO BE FURNISHED BY ENTITIES

- a) Interested entities should submit their offer indicating the following:
 - Specification of the Gas Dehydration Unit (GDU) along with Process Design of the complete Gas Dehydration System.
 - Complete scope of the services along with the manpower and requirements for the operation and maintenance of the GDU.
 - Supply period
 - Tentative cost, if possible.
 - Offer details including the details of setup to be installed by the entity for dehydrating the natural gas.
 - Capacity of GDU suitable for the above-mentioned volume of gas.

5. Besides above the interested entities should also provide following details while submitting their Letter of Interests against this EOI:

- Documents for consideration – Detailed information of the party/company with their organization structure, ownership details etc.
- Documents establishing that the entity has executed project/projects before in this field. Such projects executed by the entity should be in operation.
- Company's financial performance documents i.e. (A) Audited balance sheets for the last three financial years and (B) Net worth for preceding financial/accounting year.
- Any other relevant details.



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6. **Interested** entities are requested to submit their EOI at e-mail ids : niponsarma@oilindia.in and bjdeori@oilindia.in within **30.07.2024**, followed by hard copies of the same in a sealed envelope through courier/post super-scribing “Expression of Interest No.: “OIL/RF/EOI/015/2024 - Project Proposal for hiring of GDU along with O&M for natural gas from Bakhritibba DSF Block” to the following address:

GM(Production) – RAJASTHAN ASSET
OIL House, Oil India Limited, 2A District Shopping Centre
Saraswati Nagar, Basni, Jodhpur Rajasthan-342005.
E-mail: niponsarma@oilindia.in, bjdeori@oilindia.in

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 our e-mail within above specified period.

7. **This EOI is not an invitation for bids for allocation or use of natural gas. The EOI is issued for technical proposals only.**
8. 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.
9. 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 service provider to influence OIL in the decision making in respect of EOI will result in the rejection of that service provider.
10. OIL reserves the right to:
- Accept or reject any/all EOIs submitted by parties.
 - Cancel the process at any time without any liability and assigning any reason thereof.
11. OIL may invite acceptable intents for a meeting to discuss further modalities and issues related to the project.
12. All Corrigenda, addendum, amendments, time extensions to the EOI will be hosted on OIL’s website www.oil-india.com under- for Vendors ---> Expressions of Interest 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.
