

**EXPRESSION OF INTEREST (EOI)**  
**FOR**

**HIRING THE SERVICES OF RADIAL DRILLING IN THE NEWLY DRILLED WELLS AND PRODUCING WELLS OF DEPLETED RESERVOIRS OF OIL INDIA LIMITED (OIL) LOCATED IN OIL FIELDS OF ASSAM AND ARUNACHAL PRADESH INCLUDING SUPPLY OF CHEMICALS AND CONSUMABLES ON “CALL OUT” BASIS.**

**EOI No.: EOI/PSS/RD/005/2025**

**DESCRIPTION:**

**Hiring the services of Radial Drilling in the newly drilled wells and producing wells of depleted reservoirs Oil India Limited (OIL) located in oil fields of Assam and Arunachal Pradesh including supply of chemicals and consumables on “CALL OUT” basis.**

**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 as well as production of LPG. 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, Nagaland, Mizoram and Tripura. Additionally, OIL operates in Rajasthan, Andhra Pradesh, Andaman and Kerala-Kankan and also has overseas presence.

**2.0 OBJECTIVE:**

Radial Drilling being well known technology in the oil industry for enhancing hydrocarbon recovery from oil fields, OIL has already executed several rounds of Radial Drilling campaigns in its depleted reservoirs in Assam, India.

(i) Newly drilled wells:

Considering the experience of earlier campaigns and to augment its production, OIL now intends to carry out radial drilling campaign in its newly drilled wells in the depleted reservoirs from the oilfields located in Assam and Arunachal Pradesh, India for the first time on “CALL OUT” basis.

(ii) Producing wells:

OIL also intends to carry out radial drilling campaign in its producing wells in the depleted reservoirs from the oilfields located in Assam and Arunachal Pradesh, India for the first time on “CALL OUT” basis.

**Note:** This EOI is floated to invite participation from the prospective vendors and thereby to submit their bids to carry out Radial Drilling in OIL's newly drilled wells as well as producing wells in its depleted reservoirs located in Assam and Arunachal Pradesh, India on "Call Out" basis. Based on the inputs and feedback received vide this subject EOI on the "Call Out" basis, OIL shall, at a later stage, float an open tender for carrying out Radial Drilling in OIL's newly drilled wells as well as producing wells in its depleted reservoirs on "Call Out" basis.

### **3.0 DELIVERABLES:**

The bidder may be required to give a presentation to OIL on a later date after submission of EOIs on the possibility of rendering the services of radial drilling of OIL's newly drilled wells as well as producing wells in its depleted reservoirs on "Call Out" basis to be hired through an open tender in the future.

### **4.0 EVALUATION CRITERIA:**

The proposals received through this Expression of Interest (EOI) shall be evaluated based on the following criteria for OIL's future open tender for radial drilling of OIL's newly drilled wells as well as producing wells in its depleted reservoirs on "Call Out" basis:

- i. Technical details with solution & feasibility of implementation. This may include the type of well data required for design of Radial Drilling job of any newly drilled well as well as producing wells in its depleted reservoirs.
- ii. Proven experience and track record of the bidder in executing similar projects.
- iii. Cost-effectiveness and value for investment.
- iv. Compliance with safety, environmental, and regulatory requirements.

### **5.0 SUBMISSION OF EXPRESSION OF INTEREST:**

Interested parties are requested to submit their EOIs in electronic format to [nazirahmed@oilindia.in](mailto:nazirahmed@oilindia.in) or [abhijit\\_bora@oilindia.in](mailto:abhijit_bora@oilindia.in) hard copy may be submitted to the following address no later than **01.08.2025:**

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

The EOI shall include the following information:

- i. Company profile, including relevant experience in similar projects.
- ii. Technical feasibility and innovation of the solution.
- iii. Track record of the bidder in executing similar projects.
- iv. Outline of proposed methodology and approach.

- v. Tentative Scope of Work, Terms of Reference and necessary specification with proposed methodology.

**Note:** Based on the inputs received from the prospective bidders, a Scope of Work will be prepared and forwarded to the parties for obtaining Budgetary Quotation for OIL’s future open tender.

**6.0 TIMELINE AND DELIVERABLES FOR EXECUTION IN FUTURE:**

The Contractor shall design and execute the Radial Drilling job in any well assigned by OIL within a specified timeline post award of a contract to be awarded by OIL through an open tender. The contractor shall maintain their base office for operation and maintenance from in and around Duliajan, Assam.

An outline of the activities / execution philosophy, as presently envisaged by OIL, to be incorporated in the “Scope of Work” for the upcoming open tender for hydraulic fracturing campaign on “Call Out” basis is enclosed as **Annexure-I** of this EOI document. The prospective service providers may submit their offers in this EOI taking into consideration the contents of the **Annexure-I** enclosed.

**7.0 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.

**8.0 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 / Schedule of Rate for OIL’s upcoming open tender for hydraulic fracturing in its newly drilled wells as well as producing wells on “Call Out” basis.

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.

Should you have any questions or require further clarification, please do not hesitate to contact us at [nazirahmed@oilindia.in](mailto:nazirahmed@oilindia.in) or [abhijit\\_bora@oilindia.in](mailto:abhijit_bora@oilindia.in). We look forward to receiving your Expression of Interest and exploring the potential of working together on this important project.

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**OUTLINE OF ACTIVITIES/EXECUTION PHILOSOPHY TO BE INCORPORATED IN THE “SCOPE OF WORK” (AS ENVISAGED BY OIL) THROUGH AN OPEN TENDER (IN FUTURE) FOR OIL’S RADIAL DRILLING CAMPAIGN IN ITS NEWLY DRILLED WELLS AS WELL AS PRODUCING WELLS IN DEPLETED RESERVOIRS ON “CALL OUT” BASIS.:**

**1.0 INTRODUCTION:** OIL intends to carry out Radial Drilling job in its newly drilled development wells as well as in its producing wells on “Call Out” basis. Radial Drilling shall be carried out once production testing is done by OIL. The well selection criteria shall be decided by OIL and thereafter handed over to the service provider to carry out the radial drilling job. However, the service provider may also opt to review the wells that OIL selected for the proposed radial drilling job. In such a situation, OIL may provide the available well-completion data of the candidate well. However, for data pertaining to reservoir characteristics and reservoir fluid rheological properties, OIL may provide the data from the neighboring well(s) (producing / shut-in) drilled within the same reservoir pool for co-relation purpose, subject to availability of the same. In other words, it may be noted that there shall be no scope for candidate well selection criteria and that the service provider may opt to study the suitability of the candidate well selected by OIL free of cost only with the purpose of better understanding and job execution planning.

**2.0 CALL-OUT PHILOSOPHY:** OIL shall select the candidate newly drilled development well(s) in depleted reservoirs based on its Tentative Drilling Program (TDP). Once the drilling rig is allotted and the tentative spud-in time is envisaged by OIL, OIL shall inform the service provider to mobilize its equipment(s), consumables & manpower on “Call Out” basis and the service provider shall be equipped and ready to immediately mobilize the same so that the requisite radial drilling job can be carried out in the designated well on time and without any delay.

OIL shall select the candidate producing well(s) in depleted reservoirs. OIL shall inform the service provider to mobilize its equipment(s), consumables & manpower on “Call Out” basis and the service provider shall be equipped and ready to immediately mobilize the same so that the requisite radial drilling job can be carried out in the designated well on time and without any delay. The service provider may note that mobilization may be required to be carried out for radial drilling in only a single well at a time during each phase of maiden “Call Out”. OIL shall however endeavor and plan to assign a maximum no of wells to the service provider for every maiden “Call Out”. In worst case, for unforeseen situations like well complications, it may so happen that even the single assigned well may not be available for radial drilling.

**3.0 GENERAL WELL COMPLETION (PRACTICED BY OIL):** The service provider shall consider the following general well completion design that is followed in OIL:

5 M/10 M well head, 2 7/8" 6.4 ppf P110 tbg, 5 1/2" 20-23 ppf N80 csg.  
OIL shall inform the service provider in advance in case OIL decides to complete any well with different well completion policy.

**Post Radial flowback:** Using CTU+NPU as per the well requirement and as desired by OIL.

**4.0 RADIAL DRILLING EQUIPMENT, TOOLS AND MATERIALS:** The service provider shall provide all required radial drilling equipment, tools, materials etc. with their operating personnel necessary to perform the job. Coiled tubing unit offered for radial drilling shall not be manufactured before 07 years from original Bid Closing Date (i.e., vintage of less than 7 years) of the Open Tender. For reference purpose, it is hereby informed that the Contractor shall provide the following equipment, tools and materials, but not limited to, for execution of the radial drilling job:

**The surface system:** The surface unit as described in the equipment description below, is to be designed such that it is fully self-contained in each configuration, be that skid, trailer, truck or modular unit. The unit is to be placed close to the surface well location, but within the safety zone as per standard statutory requirements. The unit is to be earthed and then connected to the well head either through a mechanical riser mast and gooseneck or a hydraulic injector head. Pressure control is to be maintained by utilizing a 5000-psi lubricator device, a BOP (Pipe, slip, shear, Blind) system, stuffing box etc. To allow circulating and bypass in case of a well-control situation, various connections, valves and high-pressure lines are available and can be installed at the well head either on the production casing or production tubing as per safety requirements. Surface facilities typically consist of the following, but not limited to the following: Power generating section which includes an engine and control functions for the engine, fluid tanks, hydraulic oil tanks and diesel tanks. Low pressure section with charge pumps, transfer pumps and various cooling and circulating fans etc. This section also includes requirement of suitable filtering system and a chemical feed system for the addition of various fluid additives. High-pressure section with pumps that should generate up to 20,000 psi of surface pressure complete with all piping for acid and other chemicals that may be injected to the fluid stream. Reel compartment houses the coil string, hydraulic connectors, for the injector head and other auxiliary hydraulic components such as a coil straightener etc. required for successful lowering. The drum (reel) should be capable of holding sufficient coiled tubing to operate efficiently upto the required well depth. Included here is also the level wind device and depth metering adaptor. Control cabin houses, the surface unit control devices and computers for control of the overall system. The control cabin also has an incorporated casing milling control system. The system

should provide verification of successful opening of the casing. Cooling and heating (if required) is controlled from this cabin also. Additional to the Radial/Jet Drilling surface unit, a water container of sufficient quantity of suitable filtered water is needed along with containers for chemicals which is under bidder's scope. Any other special equipment, tool(s) etc. required for the successful execution of the radial/jet drilling but not mentioned in this document is to be provided by the service provider at no additional cost to OIL. All tools, equipment etc. required for successful execution of the said service shall comply to the prevailing statutory norms for E&P business.

OIL requires both digital (in control room like pressure drop, vibration changes etc.) and physical verification to its satisfaction for opening of the hole confirming casing cutting.

**The Downhole System Assembly:** The downhole system is comprised of (but not limited to): A Deflector/ diverter system for deflecting of the radial drilling bottom hole assembly from 0 to 90 deg. BHA for casing milling run to drill lateral hole size of 20mm to 50 mm. BHA for onward drilling of Open hole of size upto 50 mm having maximum lateral length of upto 100 Mtrs in the hydrocarbon bearing formation. 2 7/8" Production tubing to surface and 2 3/8" EUE Tubing. (To be provided by OIL) Or/and any other special equipment required for the purpose to be provided by the service provider.

**5.0 RADIAL DRILLING JOB EXECUTION AND SUPERVISION:** The Service Provider has to perform the operation as per the radial drilling design submitted by the Service Provider and jointly agreed by OIL and the Service Provider.

**6.0 POST TREATMENT ACTIVITIES:** The contractor shall carry out continuous post Radial Drilling flowback operations of the well using their own CTU & NPU as per the well requirement and as desired by OIL. All necessary consumables, equipment, fittings etc. will be under the scope of the contractor. Evacuation of the flowback fluid will be under OIL's scope. Finally, the contractor shall provide a comprehensive report of all related treatment data and radial drilling operations, review the radial drilling operations, lessons learnt and to present the results of the radial drilling treatment to OIL.

**7.0 DURATION OF THE CONTRACT:** The duration of the contract shall be four (04) years with multiple "Call Out" option.

**TERMS OF PAYMENT TO THE CONTRACTOR:** The basic essence of OIL's future subject radial drilling campaign is "Call Out" basis. Therefore, payment to the Contractor shall be done well wise only in case of success of radial drilling operation and any additional gain in crude oil &/or natural gas production is established. Mobilization/demobilization charges shall be paid one time during the currency of the Contract. For radial drilling services rendered including

consumables used, payment shall be made well wise for every successful job being carried out by the service provider. The service provider, vide this EOI, may provide their views and inputs in this regard.

For better and clear understanding of the roles and responsibilities to be adopted by OIL and the Service Provider in the upcoming open tender, a “Deliverable Matrix” is provided below:

<b>Vendor/Contractor</b>	<b>OIL</b>
Job design in collaboration with OIL.	Full access to well site radial/jet location for the drilling system.
The complete Radial/Jet Drilling Unit equipped with all relevant tools & tackles, including BOP to complete the job of Radial Drilling with minimum 400 meter of laterals in each well.	A complete work-over unit for pipe pulling, circulating and pipe handling & lifting (crane) capabilities, if required.
<ul style="list-style-type: none"> <li>• Any other X-Over’s required for connecting the deflector sub-BHA to 27/8” EUE tubing.</li> <li>• 2 7/8” to 2 3/8” EUE Crossover</li> </ul>	<ul style="list-style-type: none"> <li>• Pup joints of 2 7/8” EUE.</li> <li>• Pup Joints of 2 3/8” EUE</li> </ul>
Manpower for operating & managing radial/jet drilling	An adequate Work Platform for access on top of 2 7/8” tubing.
Supply of all tools, tackles and equipment for successful radial/jet drilling.	Receptacle for fluid recovery.
Supply of BHA, Gyro, Hydraulic Injector PDM (Positive displacement motor), High pressure pump, Flex Shaft, BIT, Nozzle, Coiled Tubing, pack off, filtration unit etc. as required.	For Surface Read out system E-line service to be provided by OIL. The details of the E-Line/Wireline service that will be provided by OIL is below the table*
Any other specialized item required for the radial drilling operation to be provided by vendor /contractor.	Proper arrangements and Chemical additives for well subduing (if required).
<ul style="list-style-type: none"> <li>• Necessary arrangement to be made by the contractor to collect water available at well plinth.</li> <li>• Primary/ Secondary filtration, storage etc. to be arranged by the contractor.</li> </ul>	OIL will only provide the source of technical water at well site.
Inventory of equipment, tools or critical spares for smooth radial/jet drilling operation.	E -line services needed to log BHA up to the target depth in the zone of interest. (Slim CCL-GR)
Transportation/placement of tank, container or any other equipment of	For 24 hrs. operations, adequate night illumination must be assured

the contractor, when moving to the other designated site mainly during Inter Location Movement between one site to the other.	between the Rig and Radial/Jet Drilling Unit.
	Other suitable radial drilling /Jet drilling fluid (except water) required for drilling at least 400 meters in each of the well.
	Diesel or any other aromatic solvent for pumping/circulation to mitigate down-hole restrictions during radial drilling operations

OIL's Available wireline cable specification:

Cable OD size	No. of Conductors	Breaking Strength	Weak Link
15/32 inch	7	24,500 lbs	8,000 or 10,000 lbs
5/16 inch	1	12,400 lbs	4200 lbs
7/32 inch	1	6,000 lbs	1800 lbs

Cable head:

- For 7 conductors (15/32-inch OD) cable: Standard 3 5/8 inch DITS cable head
- For mono conductor (5/16 inch and 7/32 inch) cable:
- Cable head 1 7/16" OD – Spring Pin connection type (NOT having banana pin connection) with thread size 1 3/16" - 12 N – 2 ("GO" connection.)

System Software:

- For recording open hole log using 7 conductor cable: INSITE
- For recording cased hole log and well completion job using mono conductor cable: WARRIOR

Note: Compatibility with OIL's supplied wireline / E – line is under the scope of the service provider. The service provider is to bring their own crossover sub or adopter assembly and any other panels or equipment required to connect their tools to utilize the wireline services.

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