



वेधन प्रौद्योगिकी संस्थान
Institute of Drilling Technology
ONGC, Kaulagarh Road, Dehradun, 248001

NOTICE INVITING EXPRESSION OF INTEREST

for Benchmarking of Institute of Drilling Technology.

ONGC is the largest crude oil and natural gas Company in India, a **Maharatna** company of GOI, contributing around 71 per cent to Indian domestic production. Crude oil is the raw material used by downstream companies like IOC, BPCL, HPCL and MRPL (Last two are subsidiaries of ONGC) to produce petroleum products like Petrol, Diesel, Kerosene, Naphtha, and Cooking Gas LPG. ONGC has a unique distinction of being a company with in-house service capabilities in all areas of Exploration and Production of oil & gas and related oil-field services. Winner of the Best Employer award, this public sector enterprise has a dedicated team of around 27,000 professionals who toil round the clock in challenging locations.

Institute Of Drilling Technology, Dehradun, henceforth referred as IDT, is one of the premier R&D Institute of ONGC LTD. in field of Oil & Gas Drilling Technology, providing services related to R&D, dissemination of updated technical knowledge including training in all facets of drilling technology and offering solutions to problems encountered in ONGC fields – India or abroad.

A. In its quest for attaining excellence through performance evaluation, *IDT intends to benchmark its primary activities, as outlined below and available resources (manpower and equipment) for it,* to enable comparison with other such service providers/Institutes of International Standards.

- **Drilling (R & D):** Drilling (R&D) involved in designing of Critical and Complex wells i.e. Sub-hydrostatic/ High Pressure High Temperature/Hi-angle/Deep wells, having Well Planning software for designing and optimization of well operations & equipped with temperature modelling software for HPHT wells.
- **Drilling Fluid (R & D) including Drilling Fluid Lab:** Drilling fluid (R&D) involved in R&D work and testing of Drilling fluid additives such as bulk chemicals, payment Samples. Drilling Fluid formulations etc. are carried out as per API standard.

- **Completion Fluid (R & D) including Completion Fluid Lab:** It involved in development of Completion Fluid for testing, completion and work over operation of High Pressure and High Temperature (HPHT) and Low Pressure and Low Temperature wells & technological up gradation through R&D activities as per field requirement.
- **Cementing (R & D) including Cementing Lab:** It consists of unique facility to test static strength development of cement slurry, using equipment SGSA (FANN Make). Lab of Cementing (R & D) has UCA (Ultrasonic Cement Analyser) which can depict non-destructive compressive strength in real time. The equipment uses acoustic impedance in the c/slurry under test. The equipment at Cementing (R & D) is HPHT suitable for temperatures up to 260° C and pressure of 20000 Psi.
- **Operational monitoring, Audit and Benchmarking:** It is involved in real time Monitoring of wells through RTDMA, sending alerts to the responsible person in the field for prevention of complication, Analysis of complication by multi-disciplinary team and communication of meeting outcome/advisories to different work centres.

Consolidation of time balance data of completed wells and carrying out Benchmarking of drilling operations of various Assets & Basins. Also carrying out operational Audit of completed wells.

- **Drilling Technology School :** It conducts wide variety of courses ranging from Basic course in drilling, drilling fluid and cementing to advance courses such as Stuck pipe prevention, Mud loss Prevention, Safety in Drilling Operations, Practices for trouble free drilling and Well Planning which have been admired by most of our contemporaries from all around the world.
 - **Well Control School:** WCS is accredited to the IWCF Rotary Drilling well control certification program, IWCF Well Intervention Pressure Control certification program & IADC Well Sharp certification program.
- B.** The objective of the instant EoI document, as enumerated below, is to enable IDT set benchmarks of its performance of international standards and thus realize its aforesaid 'quest for attaining excellence through performance evaluation'.
- a) To have first-hand information on reputed consultants /consulting companies /Institutes /academic institutions/companies etc., hereinafter referred as companies, which have capability and are desirous of offering their services related to benchmarking of aforesaid activities of IDT.
 - b) Learning about methodologies which shall be proposed by different Companies for realizing the benchmarking objective. This shall assist IDT in firming up suitable scope of work which may be needed for selecting suitable Co. for providing service. Detailed

References to such methodologies adopted by other such Institutes/agencies as IDT, shall be quite helpful.

- c) Benchmarking methodology shall cover in its scope, but not limited to – quality of lab facilities, manpower, reports generated, raw data & software being used to process, standard of training facilities etc.

Submission of documents for EOI: Participants to EOI are requested to submit their detailed Proposals, addressed to in charge OMAB, IDT, email ID- patwey_rajesh@ongc.co.in, Contact number- 9470598222

Timeline: EOI are invited from reputed companies for benchmarking of IDT activities as illustrated in A. & B. above, within 45 days of publication of this notice. Queries, whatsoever, may be sent to I/c- OABG on the above mentioned email ID or may be contacted on above mentioned mobile number.