



EXPRESSION OF INTEREST (EOI)

EOI for Development of QBS Matrix and PQC Criteria for Empanelment of Design & Engineering Consultants (DEC) - Onshore Projects

1. Introduction

Oil and Natural Gas Corporation Limited (ONGC) is seeking to empanel Design & Engineering Consultants (DEC) for both the Pre-Award and Post-Award phases of LSTK contracts. The consultant's Pre-Award responsibilities will extend up to the award of the LSTK work.

In the post-award phase, the DEC will participate in the Design Kick-off Meeting, review document control indexes (DCI/ MCI), validate document weightages and submission schedules aligned with procurement and site execution, and establish a milestone-based system for monitoring design and engineering progress in line with the project delivery schedule.

2. Key Information and Dates

EOI Reference Number	ONGC/DEC/EOI/2025/01
Date of Issue	20- 11-2025
Last Date for Submission of EOI	10.12.2025
Contact Phone Number	Tel- (011) - 26752010 / 26752035
Address	DUB, Plot No. 5A- 5B Nelson Mandela Road, Vasant Kunj, New Delhi, 110070

3. Objective

The primary objective of this EOI is to develop a robust Quality-Based Selection (QBS) evaluation matrix for the empanelment of Design & Engineering Consultants (DEC) under the Onshore category. Through this EOI, ONGC intends to establish a structured framework for assessing and empanelling DEC's based on their experience, technical capability, and suitability for projects of varying complexity and capital investment.

Once the empanelment process is complete, ONGC will invite offers from the qualified agencies for specific jobs, as required, along with detailed special conditions and scope of work. The empanelled agencies will be expected to confirm their acceptance and readiness to undertake the assigned tasks.

4. DEC's Role (Indicative)

DEC's Key activities are expected to cover the following areas:

A. Pre-Award Activities

1. DEC develops project schemes, prepares FR/ FDP when required, and provides cost estimates with required accuracy.
2. Conducts site/office visits to finalize scope, verify data, and gather additional details of existing systems and equipment.
3. Prepares drawings, detailed Scope of Work, and tender cost estimates based on the approved scheme.
4. Suggests new technologies, conducts preliminary safety studies, and includes results in the Technical Bid Package (TBP).
5. Prepares the complete TBP on Basic Design Engineering Package (BDEP) or Front-End Engineering Design (FEED), as required, comprising of- Design Basis, PFDs, P&IDs, SLDs, Layout, Plot Plan, specifications, datasheets, drawings, QAP/ ITP, SVL, functional specs, and standard drawings- ensuring statutory compliance.
6. Prepare detailed MTO and Cost Estimates.
7. Develops missing functional specifications/ QAP/ ITPs and submits editable e-tender compliant TBP files in Smart Plant-compatible formats.
8. Uses engineering tools (Aspen HYSYS, ETAP, STAAD Pro, CAESAR-II, PV Elite, ETAP, etc.) and supports ONGC's digital data management throughout.
9. Assists in bidding activities- handling bidder queries, attending site visits and pre-bid meetings, preparing amendments/ corrigendum/ addendum, and revising scope of work and estimates accordingly assisting in price schedules, milestones, and timelines.
10. Supports technical evaluation by reviewing offers, preparing TER, and responding to LSTK contractor technical queries post-award.

B. Post-Award Activities

1. DEC shall attend design kick-off and project/engineering review meetings, and review the complete document list, weightage, and submission schedule.
2. DEC shall monitor Design & Engineering progress through milestone-based tracking aligned with procurement and execution needs.
3. DEC shall review all engineering, procurement, and vendor documents of the LSTK contractor and may deploy coordinators at ONGC or contractor offices.
4. DEC shall ensure timely submission of deliverables and verify statutory compliance, assisting ONGC in securing required approvals.
5. DEC shall evaluate alternate vendors, support 3D model reviews, and participate in safety studies and agency evaluations.

6. DEC shall assess scope changes and associated cost impacts during project execution.
7. DEC shall review As-Built documents and process all engineering reviews through ONGC's OPMAC platform within specified timelines.
8. DEC shall review punch points and assist in its closure.

5. Key Outcome of this EOI

This EOI does not seek to empanel the DEC at this stage. Instead, it is intended:

- A. **To develop a comprehensive Quality-Based Selection (QBS) evaluation matrix:** – This matrix will serve as the key tool for assessing and ranking Design & Engineering Consultants (DECs) under the Onshore category based on experience, technical expertise, and capability to handle projects of different complexity and capital investment. Quality score as discovered during empanelment tender shall be used for QCBS based evaluation in the subsequent limited tenders (price bids) for actual award of design engineering works.
- B. **To define Pre-Qualification Criteria (PQC) for DEC empanelment:** – The PQC will establish the minimum eligibility standards that agencies must meet to be considered for empanelment.

6. Information Sought from Interested Parties

A. Details of engineering experience:

- a) **Pre-award engineering** – Preparation of the Technical Bid Package (TBP) on a Basic Design Engineering Package (BDEP) or Front-End Engineering Design (FEED) basis.

AND / OR

- b) **Post-award detailed engineering** – Including approval of drawings and purchase specifications for the following categories, **along with work value, executed in the last seven years:**

- i. Oil Refining
- ii. Natural Gas Processing
- iii. Petrochemicals
- iv. Oil or Gas Separation & Handling Facilities such as Group Gathering Stations/ Gas Collecting Stations/ Central Tank Farms
- v. Gas Compressor Plant
- vi. Cross-country trunk pipelines.
- vii. Early Production System
- viii. Dew Point Depression Unit
- ix. Gas De-Hydration Unit

x. Onshore Pipeline

- B. Engineering Databases and Software Systems such as** AutoCAD/ DraftSight / Smart Plant P&ID for P&IDs; CAESAR II for Pipe Stress Analysis; ETAP for Electrical Power System studies; Aspen HYSYS for Process Simulation; Flaresim for Flare System Design; STAAD Pro for Foundation and Building Design.
- C. Engineering Manpower Strength:** Number of Lead / Discipline Engineers (Civil/ Structural, Mechanical, Process/ Chemical, Piping, Instrumentation, Electrical, Pipeline, Fire & Safety, Costing) on the agency's payroll, year-wise, for the **last five years**.

7. Submission Guidelines

Interested parties are invited to submit their EOI documents, clearly indicating the **applicable category** as specified in **Para 6 against each of the project submitted in support of their experience**. The EOI submission should include the following information:

1. **Experience Details:** A comprehensive list of Design & Engineering contracts or projects executed over the last seven years, including a brief description and scope of work for each project.
2. **Project-Specific Details:** The order / completed value (in terms of INR or USD) of each of the Detailed Engineering Consultancy contracts listed at sr. no. 1.
3. Details of the **Engineering Databases and Software Systems available with the agency**
4. Manpower resource details as specified above in para 6 section C..

Submission Deadline: 10.12.2025

Submission Format: Electronic copies in PDF/PPT format (& additional documents), submitted via email to sanghi_sanjiv@ongc.co.in & mishra_sb@ongc.co.in

8. Disclaimer

This EOI is solely for the purpose of market exploration and scope definition. It does not constitute a commercial tender or RFP, nor does it commit ONGC to proceed with any procurement process.