EXPRESSION OF INTEREST (EOI)

Defining Scope & Qualification Framework: Appointment of Nuclear Consultant for SMR Deployment at ONGC

1. Introduction

Oil and Natural Gas Corporation Limited (ONGC), India's premier energy company, is exploring the deployment of Small Modular Reactors (SMRs) as part of its transition towards sustainable and low-carbon energy sources. This aligns with the Government of India's **Nuclear Energy Mission for Viksit Bharat**, targeting the establishment of **100 GW of nuclear power capacity by 2047**.

To ensure a structured approach, ONGC intends to engage a specialized nuclear consultant with the expertise of a Detailed Engineering Consultant (DEC). This consultant will provide technical advisory, regulatory guidance, and feasibility studies required to advance SMR initiatives across ONGC's onshore and offshore facilities

2. Key Information and Dates

EOI Reference Number	**ONGC/SMR/EOI/2025/02**
Date of Issue	06- Aug-2025
Pre-Submission Meeting	18- Aug-2025
Last Date for Submission of EOI	10- Sept-2025
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3. Objective

The primary objective of this EOI is to develop a comprehensive Scope of Work (SOW) and establish qualification criteria for an upcoming open tender to hire a nuclear consultant.
Through this EOI, ONGC aims to:

- Finalize a technically robust and commercially viable SOW for consultant engagement.
- Gather market intelligence to align qualification requirements with industry standards for hiring a nuclear consultant.
- Identify experienced and capable nuclear consultancy firms with expertise in SMRs and nuclear regulations.

4. Consultant's Role (Indicative Focus Area)

The consultant is expected to support ONGC across the entire spectrum of pre-implementation planning for SMRs. The expected SMR capacity requirement would be between 5 MW and 20 MW for offshore and around 35 MW for onshore facilities at ONGC. Key activities are expected to cover the following areas:

A. Technology Assessment & Feasibility Study

- Comparative evaluation of global SMR technologies.
- Assessment of maturity, safety features, operational flexibility, and commercial viability of shortlisted technologies.
- Technical and economic feasibility analysis tailored to ONGC's onshore and offshore requirements.

B. Site Selection and Evaluation

- Development of siting criteria considering technical, seismic, hydrological, environmental, and logistical parameters.
- Preliminary site surveys and recommendation of suitable ONGC locations for pilot SMR deployment.

C. Regulatory & Licensing Alignment

- Detailed mapping of the Indian nuclear regulatory landscape (AERB guidelines, IAEA standards).
- Advisory on required clearances, certifications, and safety approvals with timelines and dependencies.
- Facilitation of engagement with regulatory bodies and development of a compliance roadmap.

D. Strategic Advisory & Roadmap Development

- Development of a phased implementation roadmap for SMR adoption across ONGC facilities.
- Recommendations on EPC/BOO/PPP engagement models for future deployment.
- Support to ONGC in drafting the RFP and defining technical specifications for selection of technology providers.

5. Key Outcome of this EOI

This EOI does not seek to appoint a consultant at this stage. Instead, it is intended to:

- Develop the Scope of Work (SOW) for the proposed consultant tender.
- Establish qualification benchmarks (experience, technical expertise, certifications) for prospective bidders.
- Identify leading nuclear consultancy players capable of partnering with ONGC.

6. Information Sought from Interested Parties

- Organizational credentials – Expertise in nuclear consultancy, SMR projects, and regulatory advisory.
- Relevant experience – Past consultancy or engineering work in nuclear power or SMR projects (domestic or international).
- Key personnel – Profiles of experts with relevant domain knowledge.
- Approach & suggestions – Feedback or recommendations to strengthen the proposed SOW.
- Readiness for future tender participation – Willingness and capability to bid when the formal RFP is released.

7. Submission Guidelines

Interested parties are invited to submit their EOI documents, encompassing:

- **Executive Summary**: A concise overview of the proposal.
- **Detailed Proposal**: Comprehensive responses to the information requirements outlined in Section 6.
- **Supporting Documents**: Relevant case studies, certifications, and any other pertinent documentation.

Submission Deadline: 10.09.2025
Submission Format: Electronic copies in PDF/PPT format (& additional documents), submitted via email to sanghi_sanjiv@ongc.co.in and/or singh_ak25@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.