



EXPRESSION OF INTEREST (EOI) FOR HIRING EPMC CONSULTANCY FOR DEVELOPMENT OF 1.75 MMT STRATEGIC PETROLEUM RESERVE (SPR) IN ROCK CAVERN AT MSEZL MANGALORE (PH-I EXTN)

1. Introduction

Oil and Natural Gas Corporation Limited (ONGC) invites Expressions of Interest (EOI) from reputed Engineering & Project Management Consultants for EPMC role for development of a 1.75 MMT-capacity Strategic Petroleum Reserve (SPR), along with associated facilities, at Mangalore (Phase-I Extension) in MSEZL.

The type of proposed strategic storage to be set up will be in underground-unlined rock caverns. While the crude storage caverns are built underground, its associated facilities e.g. heat exchangers, metering skids, boiler, flare, fire water storage and pumping station, control and personnel buildings, effluent treatment plant, outdoor electrical switch yard, compressed air system, standby power generator, maintenance workshop etc shall be located above ground, The scheme includes receipt of Crude oil in to the underground mined rock cavern storage at Mangalore and associated facilities through pipeline.

Brief Details of the facility are as below: -

S.No.	Detail	Capacity
1.	Storage	1.75 MMT or 12.6 million barrels @ 0.87 SG
2.	Caverns	4 nos. (0.67 MMT x 1 + 0.36 MMT x 3) 60 mtrs below ground surface
3.	Excavation (approx.)	6.35 MMT rock + 30,000 m ³ soil To be disposed of at 2 km from site
4.	Pump Configuration and Rated capacity of submersible 'Cavern Crude Oil Transfer Pumps'(CCTP) installed at cavern bottom	1600 m ³ /hr rated flow rate of each pump. (4W+1S)
5.	Pump Configuration and Rated capacity of 'Seepage Water submersible Transfer Pumps'	100 m ³ /hr rated flow rate of each pump. (1W+1S)



	(SWTP) installed at cavern bottom	
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Location and Orientation: -

The proposed strategic storage site is situated at Mangalore in Karnataka state which is in south part of India. The proposed land is in the near vicinity I,e, 2 km East of ISPRL operational Mangalore Crude oil cavern (Phase-I) executed during 2009 to 2016. Further, the underground storage has been aligned with an orientation of N85°E.

2. Objective

The primary objective of this EOI is to:

- Assess the market/ industrial landscape to identify qualified, experienced and reputed Engineering & Project Management Consultants for providing technical, commercial and project management support throughout the project lifecycle.
- Validation of Market Capability : Assess whether adequate experienced and credible Engineering & Project Management Consultants are available globally to support ONGC's proposal to execute the development of a 1.75 MMT-capacity Strategic Petroleum Reserve (SPR).

Interested participants/parties having the experience of Engineering & Project Management Consultant (EPMC)/ PMC, who have successfully commissioned/handed over strategic petroleum reservoir (SPR) of unlined underground rock caverns project, should respond to this EOI.

3. Submission Guidelines, Key Information and Dates

EOI Reference No.	ONGC/EPMC-SPR/EOI/2026/10
Issue Date	07.10.2026
Submission Due Date	27.10.2026
Submission Mode	Electronic Submission by Email
Language	English
Contact Email(s)	sanghi_sanjiv@ongc.co.in gupta_p1@ongc.co.in mishra_sb@ongc.co.in
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4. Broad Technical Requirement

The EPMC Consultant shall act as the **Engineering and Project Management Consultant (PMC)** for the Project at Mangalore within MSEZL and provide comprehensive engineering, procurement, project management, and construction management support throughout the project lifecycle.

The detailed engineering and design, procurement, construction, pre-commissioning and commissioning of the storage systems in unlined underground rock caverns is proposed to be executed through two main contracts:

i) Underground civil works (Part A): Part A shall be an item rate contract, and shall comprise civil works for all underground works including caverns, shafts, water curtain system and access tunnels including all concrete barriers in tunnels, pump pits, cavern floor and other concrete works.

Although detailed engineering for the underground works shall be the responsibility of the Contractor, the detailed engineering for critical items shall be the responsibility of ONGC hired EPMC.

ii) Topside (above ground) facilities (Part B): Part B shall be a lump sum turnkey contract (LSTK type). This will include all top sides as well as all underground installations in caverns and shafts, concrete barriers in shafts, tap-off, booster pump station and pipeline for crude oil, pre-commissioning, commissioning, start-up, performance test and handing over.

The broad scope of work of EPMC Consultant shall be as follows:

- Revalidation of earlier prepared Detailed Feasibility Report (DFR)
- Site visit of installations for pre-engineering surveys
- Preparation of Basic Engineering (FEED preparation) for preparation of bidding documents for Parts A and B
- Development of scheme/project in consultation with ONGC, providing detailed time & cost estimates for the scheme with appropriate basis at different stages of the project for screening various alternatives based on inputs given by ONGC.
- Preparation of detailed scope of work based on the scheme finalized



- System design basis & process design for Parts A and B i.e. for above ground (A/G) and underground ground (U/G) facilities
- Preparation of separate Tender bid package including price schedule & payment formula for above and below ground facilities
- Detailed engineering of critical items related to underground storage
- Assistance in preparation of BEC for the ITEM RATE/LSTK Project (Parts A and B)
- Assisting ONGC for Pre-qualification of bidders for Part-A and Part-B tenders, if needed.
- Assist ONGC in the evaluation of bidder's technical offer and submission of Technical Evaluation Report (TER).
- Assisting ONGC in recommendation for award of work for Part-A and Part-B
- Review of detailed engineering of Contractors for Parts A and B contracts
- Assisting ONGC in Procurement and Monitoring of Procurement by Contractors for Parts A and B
- Assistance to ONGC in preparation of Project Network Diagram, PERT/CPM chart, Work Breakdown Structure (WBS) of the scheme finalized.
- Project management and associated services including pre-project activities for supplementary investigations
- Construction Management and Supervision for Parts A and B contracts
- Assistance in pre-commissioning, commissioning and performance test
- Coordination for handing over the facilities by contractor
- EPMC to work out list of equipment for TPI for inspection at vendor works with respect to the final bid package
- Assist ONGC in settling the Post contractual issues with contractors

5. Information Sought from Interested Parties

Interested entities must submit a comprehensive dossier detailing their technical credentials and relevant experience in executing EPMC services for similar projects. The response should include the following:

1. Company Profile.
2. Firm technical proposal, along with the requisite supporting documents.
3. Details of relevant experience in executing EPMC services for similar projects.



4. Detailed track records, case studies, and reference customer details from major global operators.

6. Confidentiality

All information received by ONGC as part of this EOI shall become the property of ONGC and will be maintained in confidence and utilized solely for internal evaluation and assessment purposes.

7. Disclaimer

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