



Ref: EOI No: ONGC/Tubing/EOI/2026/09

EXPRESSION OF INTEREST (EOI)

For Supply of Wear-Resistant Internally Surface-Engineered Production Tubing and/or Provision of Surface Engineering Services for Production Tubing for Use in Rod Pumped Wells

1. INTRODUCTION

Oil and Natural Gas Corporation Limited (ONGC) invites Expressions of Interest (EOI) from established manufacturers, technology providers, licensors, specialized processing facilities, and integrated tubular suppliers having demonstrated experience in wear-resistant internal surface engineering technologies applicable to oilfield tubular products.

Production tubing deployed in sucker rod pumped wells is frequently subjected to rod-on-tubing wear, abrasion due to entrained solids, cyclic loading, vibration, and corrosive production environments. These mechanisms often result in premature tubing failures, increased workover frequency, and production interruptions.

ONGC intends to explore commercially proven technologies capable of enhancing the service life of production tubing through permanent internal surface engineering treatments that reduce rod-on-tubing wear while maintaining compliance with applicable API standards and preserving the mechanical integrity of the base tubular.

Information received through this EOI will be used for market assessment, technology evaluation, capability mapping, pilot field trial planning, and formulation of future procurement specifications.

2. OBJECTIVES OF THE EOI

The objectives of this EOI are to:

1. Identify qualified technology providers and manufacturers.
2. Assess commercially proven wear-resistant tubing technologies.
3. Evaluate applicability for sucker rod pumping operations.

4. Understand manufacturing capacities and delivery capabilities.
 5. Assess anticipated service-life improvements.
 6. Evaluate inspection and quality-control methodologies.
 7. Obtain field performance data and reference installations.
 8. Determine the feasibility of future field trials and commercial deployment.
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3. BROAD TECHNICAL SCOPE

ONGC seeks information regarding technologies capable of providing enhanced resistance to rod-induced wear and abrasion on the internal diameter of production tubing used in sucker rod pumped wells.

The proposed technology should:

1. Be suitable for full-length application on production tubing.
2. Constitute a permanent metallurgical, thermochemical, diffusion-based, surface-engineering, or equivalent wear-resistant treatment.
3. Be suitable for oilfield operating conditions.
4. Maintain compatibility with standard rod pumping equipment.
5. Permit inspection and quality verification.
6. Preserve tubing mechanical integrity.
7. Have documented field performance and operating experience.

The following are outside the intended scope of this EOI:

- Temporary coatings.
 - Lubricants and paints.
 - Consumable wear-mitigation systems.
 - Polymer lining and similar solutions.
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4. EXECUTION OPTIONS

Interested parties may respond under one or both of the following options.

Option A: Supply of Finished Wear-Resistant Production Tubing

The vendor shall:

1. Procure and/or manufacture the base tubing.

2. Apply the proposed surface-engineering treatment.
3. Perform all inspections and testing.
4. Supply the finished tubing to ONGC.

Option B: Surface Engineering Services on Free-Issue Tubing

The vendor shall:

1. Receive and inspect ONGC-supplied free-issue tubing.
2. Apply the proposed treatment.
3. Conduct testing and inspection.
4. Certify the processed product.
5. Return the finished tubing to ONGC.

5. INDICATIVE BASE TUBING REQUIREMENT

Parameter	Requirement
Tubing OD	2-7/8"
Weight	6.5 lb/ft
Material Grade	API 5CT L-80 Type-1
Connection	EUE 8RD
Manufacturing Process	Seamless
Length Range	API Range-2
Service	Sucker Rod Pumping
Product Standard	API Spec 5CT

Note: The above requirements are indicative and may be modified during subsequent procurement stages.

6. TYPICAL OPERATING CONDITIONS

Parameter	Typical Value
Artificial Lift	Sucker Rod Pump

Well Depth	Up to 1200 m and above
Fluid Type	Crude Oil
Water Cut	Up to 95%
Solids Content	Sand-bearing service
Wear Mechanism	Rod-to-Tubing Wear
Service Mode	Continuous Cyclic Operation

7. MINIMUM PERFORMANCE OBJECTIVES

The offered technology should demonstrate the capability to achieve the following:

7.1 Wear Resistance

Significant improvement in wear resistance compared with untreated API L-80 tubing.

7.2 Service Life Improvement

Demonstrable extension of tubing operating life.

7.3 Friction Reduction

Reduction in rod-to-tubing friction, where applicable.

7.4 Mechanical Integrity

The finished product shall maintain, as applicable to the specified tubing grade:

- Yield strength
- Tensile strength
- Burst resistance
- Collapse resistance
- Connection integrity

7.5 Dimensional Stability

The treatment shall not adversely affect:

- Tubing drift characteristics
- Running operations
- Pulling operations

- Thread integrity

7.6 Quality Verification

The technology shall be capable of verification through recognized testing and inspection methodologies.

8. INFORMATION TO BE FURNISHED

Interested parties shall provide information under the following categories:

A. Company Information

- Organization profile
- Ownership details
- Years of operation
- Manufacturing locations
- Quality certifications

B. Technology Information

- Technology name
- Technology description
- Process mechanism
- Technical advantages
- Limitations, if any

C. Manufacturing Information

- Manufacturing process
- Annual production capacity
- Maximum pipe-length capability
- Quality infrastructure

D. Field Experience

- Oilfield references
- Customer references
- Service history
- Performance records

9. EOI RESPONSE FORMAT

Interested parties are required to submit their responses in the sequence of Sections 8(A) to 8(D), supported by relevant technical literature, brochures, certificates, test reports, and field-performance documentation, wherever applicable.

10. SUBMISSION GUIDELINES AND DATES

EOI Reference no. ONGC/Tubing/EOI/2026/09

Language: English

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Submission Deadline: 22.10.2026

Submission Format: Electronic copy in PDF format

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11. 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.

12. DISCLAIMER

This EOI is issued solely for market exploration and technology assessment purposes and shall not be construed as a commitment by ONGC to issue a tender or award any contract.

ONGC reserves the right to modify, suspend, or cancel the EOI process at any stage without assigning any reason and without incurring any liability whatsoever.

