



## Oil and Natural Gas Corporation Ltd

### INDEG

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Ref: EOI/INDEG/SRP Sub-surface Pump/2026

Dated: 26, August 2026

## **Expression of Interest (EOI) from Domestic Manufacturers for Development of SRP Downhole Pumps and Accessories as per GOST Standard**

### **1. Background**

Oil and Natural Gas Corporation Limited (ONGC), India's flagship Exploration & Production (E&P) Company, is committed to promoting indigenous capability under the Government of India's Atmanirbhar Bharat initiative. In furtherance of this objective, ONGC has introduced a Development Order Policy (available at <https://tenders.ongc.co.in>), which provides a dedicated mechanism for development of indigenous products and services outside the regular tendering process.

With a view to developing reliable indigenous sources for SRP Downhole Pumps and Accessories conforming to GOST Standards, ONGC hereby invites Expression of Interest (EOI) from eligible domestic manufacturers. The proposals received shall be evaluated for consideration under ONGC's Development Order Policy.

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### **2. Objective**

The objective of this EOI is to identify competent domestic manufacturers having the capability to manufacture and supply SRP Downhole Pumps and Accessories conforming to GOST Standards for oilfield applications.

The developed products/services shall be evaluated through ONGC's Development Order process for consideration in future regular procurement.

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### **3. Eligibility**

Interested manufacturers should possess necessary manufacturing facilities, infrastructure, quality systems and testing capability for manufacturing SRP Downhole Pumps and Accessories conforming to GOST Standards for oilfield applications.

The manufacturers should also possess a valid GOST licence/certificate, as applicable, conforming to the latest edition of the relevant standard.

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#### **4. Information to be Submitted**

Interested firms shall submit the following documents:

- Letter expressing interest.
  - Company profile.
  - Details of manufacturing facilities/infrastructure.
  - Copy of valid applicable GOST licence/certificate (latest edition), or an undertaking/commitment to obtain the same if the Development Order is awarded.
  - Technical literature and product specifications.
  - Quality Assurance Plan (QAP).
  - Details of similar supplies/services executed, if any.
  - Customer references/performance certificates.
  - Any other supporting technical documents considered relevant.
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#### **5. Submission of EOI**

- Last date of submission: 16 September 2026
- Interested vendors shall send the EOI with requisite documents to:

Email: [sanghi\\_sanjiv@ongc.co.in](mailto:sanghi_sanjiv@ongc.co.in)/ [mishra\\_sb@ongc.co.in](mailto:mishra_sb@ongc.co.in)

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#### **6. General**

- The EOIs received shall be evaluated by ONGC to assess the technical capability of the applicants for consideration for a Development Order.
- This EOI is only an invitation to participate in the Development Order process and shall not be construed as a commitment to place any order.
- All information submitted shall be treated as confidential and used solely for evaluation purposes.

## TECHNICAL SPECIFICATION

### SRP DOWNHOLE PUMPS AND ACCESSORIES

#### 1. INTRODUCTION

The SRP downhole pumps covered under this specification are intended for lifting hydrocarbons from oil wells operating with Sucker Rod Pumping (SRP). This specification has been prepared by revising the existing ONGC API-based SRP downhole pump specification to adopt GOST 31835-2012 (or latest addition) as the governing product standard.

The present specification applies only to normal-service SRP downhole pumps.

#### 2. SCOPE

The specification covers SRP downhole pumps of the following sizes/configurations presently used by ONGC:

| Sl. No. | Existing ONGC Pump Designation | Pump Type          | Tubing             | Basic Bore / Nominal Cylinder | Barrel Length | Plunger Length | Total Extension | Plunger Clearance |
|---------|--------------------------------|--------------------|--------------------|-------------------------------|---------------|----------------|-----------------|-------------------|
| 1       | API 30-275-THM-16-4-4          | Tubing, Heavy Wall | 3-1/2 in, EUE, 8RD | 2.75 in (≈70 mm)              | 16 ft         | 4 ft           | 4 ft            | 0.004 inch        |
| 2       | API 25-225-THM-16-4-4          | Tubing, Heavy Wall | 2-7/8 in, EUE      | 2.25 in (≈57 mm)              | 16 ft         | 4 ft           | 4 ft            | 0.004 inch        |
| 3       | API 25-175-THM-16-4-4          | Tubing, Heavy Wall | 2-7/8 in, EUE      | 1.75 in (≈44 mm)              | 16 ft         | 4 ft           | 4 ft            | 0.004 inch        |

The GOST designation and detailed component configuration shall be confirmed by the manufacturer through approved drawings before manufacture.

#### 3. APPLICABLE STANDARD

- GOST 31835-2012 – Specification for sucker rod pumps / well sucker-rod pumps, as applicable.
- Applicable GOST standards referenced by GOST 31835-2012 for tubing, sucker rods, threads, testing, marking, preservation and transportation shall also apply.
- Where an interface with existing ONGC tubing or sucker rods is retained, the corresponding interface dimensions shall be maintained as specified in the approved drawing.
- API Spec 11AX shall not be the governing manufacturing/compliance standard under this specification. API designations are retained only as reference identification of existing ONGC pump configurations.

#### 4. GOST PUMP CONFIGURATION

GOST 31835-2012 uses metric nominal cylinder diameters and its own pump designation system. The following configurations are proposed for procurement mapping. The exact GOST designation shall be confirmed by the bidder/OEM against the final approved drawing.

| Existing ONGC Configuration | Proposed GOST Configuration* | Tubing Nominal Size | GOST Nominal Cylinder | Approx. Existing Bore |
|-----------------------------|------------------------------|---------------------|-----------------------|-----------------------|
| 30-275-THM-16-4-4           | 89-NN2B-70 (proposed)        | 89 mm / 3-1/2 in    | 70 mm                 | 2.75 in               |
| 25-225-THM-16-4-4           | 73-NN2B-57 (proposed)        | 73 mm / 2-7/8 in    | 57 mm                 | 2.25 in               |
| 25-175-THM-16-4-4           | 73-NN2B-44 (proposed)        | 73 mm / 2-7/8 in    | 44 mm                 | 1.75 in               |

**\*Important:** These are working procurement mappings, not asserted one-to-one conversions. GOST 31835-2012 itself provides correspondence tables with API Spec 11AX for pump families and sizes. The supplier shall state the exact GOST designation, pump type, anchor arrangement, cylinder type and component configuration in its offer.

## 5. GENERAL TECHNICAL REQUIREMENTS

- All pumps shall be designed, manufactured, assembled, inspected and tested in accordance with GOST 31835-2012(or latest edition) and the requirements of this specification.
- The pump shall be suitable for reciprocating operation in an SRP system and for the specified tubing and sucker-rod arrangement.
- The pump shall provide reliable suction and discharge valve operation throughout the specified operating cycle.
- All critical dimensions shall be verified and recorded in pump passport.
- The manufacturer shall submit detailed assembly drawings, component drawings and material specifications for approval before manufacture.
- Any deviation from this specification or the approved drawing shall require prior written approval from ONGC.

## 6. CYLINDER / BARREL REQUIREMENTS

| Parameter                 | Requirement                                                                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                      | Heavy-wall cylinder for the specified pump configurations, unless otherwise approved by ONGC.                                                                 |
| Nominal sizes             | 70 mm, 57 mm and 44 mm, corresponding approximately to 2.75 in, 2.25 in and 1.75 in.                                                                          |
| Material                  | Low-alloy/carbon steel, or other material permitted by GOST 31835-2012 (or the latest edition) and suitable for the specified well environment.               |
| Surface treatment         | Nitriding, chrome plating or other GOST-permitted surface-hardening treatment selected for the service condition.                                             |
| Nitriding, where selected | Total nitrided layer depth 0.2–0.5 mm; surface hardness minimum HV 8.7 GPa; microhardness at 0.12 mm depth minimum 4.4 GPa, as applicable to the GOST design. |
| Cylinder bore variation   | Maximum difference in internal diameter of one cylinder: 0.03 mm.                                                                                             |
| Straightness              | Maximum deviation of cylinder axis: 0.1 mm per 1 m, as applicable.                                                                                            |
| Actual bore               | Actual measured bore shall be recorded in the pump passport.                                                                                                  |
| Inspection                | 100% dimensional inspection of finished cylinders.                                                                                                            |

## 7. PLUNGER REQUIREMENTS

| Parameter                  | Requirement                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal sizes              | Plunger matched to the applicable GOST cylinder size / seating group.                                                                      |
| Plunger length             | GOST standard lengths include 1200, 1500 and 1800 mm. The required length shall be as stated in the approved pump drawing.                 |
| Material                   | Steel material permitted by GOST 31835-2012 (or the latest edition) and suitable for the well environment.                                 |
| Surface treatment          | Chrome-plated, nitrided or other GOST-permitted wear-resistant surface treatment, as specified in the approved design.                     |
| Chrome coating, where used | Minimum coating thickness 0.08 mm and hardness in accordance with the applicable GOST requirement.                                         |
| Clearance / fit            | Plunger-cylinder clearance shall be selected from the GOST seating/fit groups and shall be stated on the purchase order and pump passport. |
| Actual plunger OD          | Actual measured plunger outside diameter shall be recorded in the pump passport.                                                           |
| Surface condition          | Free from cracks, scoring, unacceptable pits, burrs and other defects affecting pump performance.                                          |

## 8. VALVE REQUIREMENTS

- Suction and discharge valves shall conform to the applicable GOST 31835-2012(or latest edition) pump design.
- Hard-alloy / tungsten-carbide valve components may be specified for abrasive service where required by ONGC.
- Valve ball and seat shall be properly matched and finished to provide reliable sealing.
- Valve operation shall be verified during functional/bench testing.
- Valve ball and seat material certificates shall be supplied for each batch.

## 9. PUMP ROD, SUBS, ADAPTERS AND CONNECTIONS

- Pump rod and plunger connection shall comply with the applicable GOST design and the specified sucker-rod interface.
- The pump shall be compatible with the existing ONGC sucker-rod string and tubing arrangement.
- Tubing-side connections shall be suitable for the specified 2-7/8 in or 3-1/2 in tubing and the approved interface drawing.
- Where existing EUE 8RD tubing connection is required, the connection shall be manufactured, gauged and inspected in accordance with the applicable referenced tubing-thread standard.
- Required changeovers/crossovers shall be supplied as part of the pump package.

## 10. BARREL, PLUNGER AND EXTENSION LENGTH

| Pump configuration | Barrel / cylinder length          | Plunger length                   | Extension requirement |
|--------------------|-----------------------------------|----------------------------------|-----------------------|
| 30-275-THM-16-4-4  | 16 ft (existing ONGC requirement) | 4 ft (existing ONGC requirement) | Total extension 4 ft  |
| 25-225-THM-16-4-4  | 16 ft                             | 4 ft                             | Total extension 4 ft  |
| 25-175-THM-16-4-4  | 16 ft                             | 4 ft                             | Total extension 4 ft  |

The manufacturer shall convert these existing functional dimensions into the exact GOST-compliant component lengths and shall submit the dimensional drawing for ONGC approval. No dimensional change affecting field interchangeability shall be made without approval.

## 11. INSPECTION AND TESTING

- Inspection and testing shall be carried out in accordance with GOST 31835-2012(or latest edition).
- Each pump shall undergo dimensional inspection and verification of all critical components.
- Each pump shall be checked for correct assembly, smooth plunger movement and correct valve operation.
- Acceptance/bench testing shall be carried out at the frequency specified by GOST 31835-2012(or latest edition).
- The test procedure shall cover pressure tightness of the pump/valve assembly and cylinder assembly as applicable.
- The supplier shall submit calibrated equipment certificates for test instruments.
- Test results shall be recorded against the individual pump serial number.
- Any pump failing the applicable GOST acceptance criteria shall be rejected or reworked and re-tested in accordance with the approved quality plan.

## **12. QUALITY ASSURANCE AND TRACEABILITY**

- Manufacturer shall operate a documented quality management system suitable for manufacture of SRP downhole pumps.
- Heat number / batch number traceability shall be maintained for critical pressure-containing and wear-resistant components.
- Material certificates shall be traceable to the supplied component.
- Dimensional inspection records, hardness/coating reports and functional test reports shall be maintained.
- Inspection and Test Plan (ITP) shall be submitted to ONGC for approval before commencement of production.
- ONGC / its authorized inspection agency shall have the right to witness inspection and testing as specified in the approved ITP.

## **13. SPARES AND ACCESSORIES WITH EACH PUMP**

| <b>Item</b>                              | <b>Requirement</b>                                                |
|------------------------------------------|-------------------------------------------------------------------|
| Standing / suction valve ball and seat   | 1 set per pump                                                    |
| Travelling/discharge valve ball and seat | 2 sets per pump                                                   |
| Changeover/crossover                     | Both-side arrangement as required for specified tubing connection |
| Product catalogue                        | Pump design, sectional drawing, part numbers and nomenclature     |
| Pump passport                            | Mandatory for every pump                                          |
| Material certificates                    | For all critical materials                                        |
| Inspection/test report                   | For each supplied pump/batch as applicable                        |

## **14. PUMP PASSPORT AND DOCUMENTATION**

- Manufacturer name and manufacturing location.
- Exact GOST pump designation.
- Pump serial number and date of manufacture.
- Nominal tubing size and connection.
- Nominal cylinder diameter and actual measured bore.
- Nominal and actual plunger diameter.
- Specified clearance / seating group.
- Cylinder and plunger material and surface-treatment details.
- Valve ball and seat material.
- Barrel/cylinder length, plunger length and extension lengths.

- Pump weight and overall dimensions.
- Inspection and testing results.
- Operating limitations and manufacturer's recommended operating conditions.
- Sectional assembly drawing and component list.

## 15. MARKING

- Each pump shall have permanent identification marking showing manufacturer, pump designation, serial number and date/month of manufacture.
- Marking shall be legible and durable throughout normal handling and installation.
- Transport marking shall comply with the applicable GOST requirements.
- Pump components supplied as loose spares shall be individually identified and traceable to the relevant pump/batch.

## 16. PACKAGING, PRESERVATION AND STORAGE

- All machined and finished surfaces shall be protected against corrosion and mechanical damage during transportation and storage.
- Internal surfaces shall be suitably preserved and protected from ingress of dust, moisture and foreign material.
- Threaded connections shall be protected with suitable thread protectors.
- Pump components shall be securely packed to prevent deformation, impact or scratching.
- Packaging shall be suitable for transportation from manufacturer to ONGC Mehsana Asset and subsequent storage at PTYS.

## 17. BIDDER'S TECHNICAL DATA SHEET

| Parameter                                                 | Bidder to specify |
|-----------------------------------------------------------|-------------------|
| Manufacturer / OEM                                        |                   |
| Exact GOST 31835-2012(or latest edition) pump designation |                   |
| Pump type                                                 |                   |
| Anchor/seating arrangement                                |                   |
| Tubing size and connection                                |                   |
| Nominal cylinder diameter                                 |                   |
| Actual cylinder bore                                      |                   |
| Cylinder material/grade                                   |                   |
| Cylinder surface treatment                                |                   |
| Nominal plunger diameter                                  |                   |
| Actual plunger diameter                                   |                   |
| Plunger material/grade                                    |                   |
| Plunger surface treatment                                 |                   |
| Clearance/seating group                                   |                   |
| Valve ball material                                       |                   |
| Valve seat material                                       |                   |
| Barrel/cylinder length                                    |                   |
| Plunger length                                            |                   |
| Extension length                                          |                   |
| Overall pump length                                       |                   |
| Pump weight                                               |                   |
| Maximum recommended operating temperature                 |                   |

| Parameter                              | Bidder to specify |
|----------------------------------------|-------------------|
| Maximum recommended operating pressure |                   |
| Test pressure and test method          |                   |
| Warranty                               |                   |

## 18. ACCEPTANCE CRITERIA

1. The supplied pump shall conform to GOST 31835-2012(or latest edition) and this ONGC technical specification.
2. The exact GOST pump designation and detailed drawings shall be approved by ONGC before manufacture.
3. All specified dimensions, materials, surface treatments and clearances shall conform to the approved documents.
4. Required inspection and testing shall be successfully completed.
5. Pump passport, material certificates and inspection/test reports shall be complete and traceable.
6. Any deviation from the approved technical specification shall require prior written approval from ONGC.

## 19. API-TO-GOST TRANSITION REQUIREMENT

The existing ONGC specification requires manufacture and supply in accordance with API 11AX and API monogramming. Under the revised procurement basis, GOST 31835-2012(or latest edition) shall be the governing product standard. API monogramming shall therefore not be mandatory unless ONGC separately specifies it as an additional qualification requirement.

- Existing API pump designations are retained only to identify the existing ONGC application/configuration.
- The bidder shall quote the corresponding exact GOST pump designation.
- The bidder shall provide a cross-reference statement between the quoted GOST pump and the existing ONGC pump configuration.
- The bidder shall demonstrate dimensional and functional compatibility with the existing ONGC tubing/sucker-rod system.
- GOST 31835-2012 contains informative correspondence with API Spec 11AX; this may be used for technical cross-reference.

| Existing ONGC Configuration | Proposed GOST Configuration* | Required Quantity |
|-----------------------------|------------------------------|-------------------|
| 30-275-THM-16-4-4           | 89-NN2B-70 (proposed)        |                   |
| 25-225-THM-16-4-4           | 73-NN2B-57 (proposed)        |                   |
| 25-175-THM-16-4-4           | 73-NN2B-44 (proposed)        |                   |