

Expression of Interest

EOI REF NO.: FE/CWS/EOI/C.7(A)/112/2026

September 02nd, 2026

LAST DATE OF SUBMISSION: 15:00 HRS (IST) OF 05/10/2026

Sub: Notice Inviting “Expression of Interest (EOI)” for empanelment of Vendor for Annual Maintenance Contract (AMC) services of all CNC Machines at Central Workshop, Field Engineering Department, Oil India Limited.

1. INTRODUCTION

Oil India limited (OIL), a “Maharatna” Category, Government of India Enterprise) is a fully integrated National Oil Company operating under the Ministry of Petroleum and Natural Gas. With an impeccable credential spanning over six decades, OIL is actively involved in exploration, production and transportation of crude oil and natural gas as well as refining, petrochemicals and renewable energy generation.

The Central Workshop (CWS), under the Field Engineering Department at Field Headquarters, Duliajan, was commissioned in 1962. It plays a critical role in supporting Oil India Limited’s drilling and production targets by providing comprehensive workshop services to internal departments and select external clients.

CWS serves as a central hub for overhauling, repair, fabrication, reclamation, re-engineering, and maintenance of oilfield equipment used in drilling, workover, and production operations. The workshop handles a wide range of jobs—from manufacturing small components to refurbishing major equipment such as draw works, rig pumps, and rotary systems.

Oil India Ltd (OIL), Field Engineering Department, Central Workshop (CWS), invites EOI from reputed OEMs, authorized dealers, system integrators, or service partners for comprehensive Annual Maintenance Contract (AMC) of all critical CNC machines listed below. **This EOI aims to shortlist technically qualified vendors for future limited tendering.**

2. EOI OVERVIEW:

The successful vendor will be eligible to provide preventive and breakdown maintenance (mechanical, electrical, electronic, hydraulic, pneumatic) plus software-level support for CNC controllers (Siemens/FANUC/Heidenhain/Mitsubishi or equivalent). Work includes machine alignment, calibration, accuracy checks, spindle and tool-changer servicing, ball-screw/servo maintenance, diagnostics, parameter backup, and safety-system verification. All activities must follow OEM recommendations and industry best practices.

Ensure maximum machine availability, accuracy and productivity; minimize unplanned downtime; implement structured maintenance covering all systems; maintain documentation

(service reports, breakdown analysis); evaluate vendors for long-term AMC/CMC; and establish a reliable support network (trained personnel, tools, spares).

3. MACHINES & SPECIFICATIONS

Below are the CNC machines at CWS, with major specifications and capabilities (to help bidders understand scope):

3.1 CNC Thread-Milling Lathe (BTC-510) – Make: Tirupati CNC Products; Controller: Siemens SINUMERIK 840D SL; Commissioned: Mar 2023.

- 3.1.1 Operational Capabilities: Oilfield threading machine for API-standard threads on drill pipes, collars, subs, kellys, etc. Supports straight/taper turning, threading (pin & box per API 7-1/7-2/5DP), drilling, boring. Handles very long/heavy workpieces (up to ~14 m). Can machine high-strength alloy steels (up to ~300 BHN).
- 3.1.2 Key Features: Heavy-duty slant-bed with rigid cast-iron construction. Large work envelope (swing-over-bed ≥ 1000 mm, turning dia ≥ 900 mm). High-power spindle (≥ 37 kW continuous, torque ~ 9500 Nm) with a 275 mm bore. 8+ station servo-driven turret. CNC control permits simultaneous multi-axis operations and advanced threading cycles with ≤ 0.015 mm positioning accuracy.
- 3.1.3 Support Systems: Central auto-lubrication, high-volume coolant filtration, chip conveyor. Real-time CNC diagnostics, alarms, and data-interface. Comprehensive safety: interlocks, overload protection and fail-safe shutdowns.

3.2 CNC Surface Grinder (JP SG 12×40 CNC) – Make: JP Machine Tools; Controller: Siemens Sinumerik; Commissioned: May 2025.

- 3.2.1 Capabilities: Precision surface grinding of flat, angular and complex profiles. Supports plunge and traverse grinding, T-slot and vertical surface grinding. Delivers very high surface finish and dimensional accuracy.
- 3.2.2 Key Features: 2-axis CNC (Vertical & Transverse). Large table ($\sim 1000 \times 250$ mm) and max grinding height ~ 400 mm. Table load ~ 300 kg. Programmable resolution 0.001 mm and repeatability ~ 0.002 mm. AC servo drives with precision ball screws; electro-hydraulic table feed control.
- 3.2.3 Support Systems: Coolant system for thermal stability and finish control. Centralized lubrication for guideways and lead screws. (Dust/exhaust systems for grinding debris.)

3.3 CNC Plasma Cutting Machine (King Cut PRO) – Make: Ador Welding Ltd; Controller: Hypertherm EDGE Connect (Phoenix HMI); Plasma Source: Hypertherm XPR 300; Commissioned: Sep 2025.

- 3.3.1 Capabilities: High-definition plasma (and oxy-fuel) cutting for steel fabrication. Multi-torch (up to 4 torches) contour profiling. Cutting range: Plasma from ~ 0.5 mm up to ~ 56 mm (mild steel) and oxy-fuel up to ~ 76 mm thickness.
- 3.3.2 Key Features: High-speed X-Y gantry on linear guides with servo rack-and-pinion drives. Hypertherm EDGE Connect CNC with ProNest nesting software, real-time diagnostics and process control. Touchscreen HMI ($\approx 18"$) for advanced programming.
- 3.3.3 Advanced Functions: Hypertherm XPR tech ensures superior cut quality and productivity. Automatic torch-height and collision sensing. Remote diagnostics/monitoring capability.

- 3.3.4 Mechanical: Rigid dual-support gantry for precision (backlash-free dual-servo drives). Burn tables with water troughs. Efficient dust/exhaust extraction.

3.4 CNC Lathe (LX20TL3, 60 mm spindle bore) – Make: LMW; Controller: FANUC Oi-TF Plus; Commissioned: Nov 2025.

- 3.4.1 Capabilities: Compact high-precision slant-bed lathe for oilfield parts (shafts, studs, adapters, rope sockets, etc.). Medium-duty turning and threading with tight tolerances.
- 3.4.2 Key Features: Max swing ~320 mm, spindle bore 60 mm. Spindle speed up to ~3500 RPM, motor ~7.5–11 kW. AC servo drives on X/Z axes with high-speed ball screws (rapid up to ~30 m/min). 8-station servo turret (index time ~0.4 s).
- 3.4.3 Accuracy: Positioning ± 0.005 mm, repeatability ± 0.002 mm.
- 3.4.4 Support Systems: Auto-centralized lubrication and coolant. FANUC CNC functions (graphic simulation, tool offset/table, multi-thread cycles, etc.) and built-in diagnostics.

4. SCOPE OF MAINTENANCE

- 4.1 Comprehensive AMC:** Vendors must execute *both* scheduled preventive maintenance and unscheduled breakdown service for all systems (mechanical, electrical, electronic, hydraulics, pneumatics) as well as CNC controls. This includes routine checks (alignment, backlash, wear), cleaning (chips, filters, coolant tank), lubrication of guideways, spindles, ball screws, checking tool changer function, hydraulic/pneumatic pressures, motors and drives. Machine accuracy (geometry and positioning) shall be verified periodically per OEM specs.
- 4.2 Preventive Maintenance (PM):** Periodic visits (quarterly/monthly, as per future tender terms & conditions) covering the above tasks. Example: one vendor's CNC AMC included two preventive inspections and one geometric calibration annually. Bidder should propose PM schedules (e.g. daily lubrication, monthly alignments, annual geometry). Use calibrated instruments (laser interferometers, ball bars, etc.) for checks. All work must follow CNC OEM guidelines and statutory HSE practices.
- 4.3 Predictive Maintenance:** In addition to fixed-interval PM, *condition-based monitoring* is expected. The latest trend is to use sensor data and analytics to predict faults. For example, vibration, temperature and spindle-current sensors can detect bearing or misalignment issues, while monitoring ball-screw backlash and coolant oil quality helps predict wear. Implementing machine monitoring (e.g. IoT/vibration sensors) can dramatically cut unplanned downtime (Messer reports up to ~50% reduction) and extend equipment life.
- 4.4 Breakdown Service:** Unplanned repair calls must be attended as emergencies. A maximum 48-hour response time is required for any breakdown call. The service engineer should arrive on-site and begin repair work within this window (24–48 hrs typically). Each machine's mean-time-to-repair (MTTR) should average ≤ 6 hours per month across the contract (i.e. downtime minimized). Vendor must provide on-call support beyond normal hours/shutdowns.
- 4.5 Tools & Diagnostics:** Vendor shall supply all required diagnostic tools, measurement instruments, jigs/fixtures, and test equipment for CNC and power systems. This includes oscilloscopes, CNC diagnostic software, alignment lasers, vibration meters, etc. The more self-sufficient the team (e.g. having local stock of special tools and Fixturing for each machine), the better.

5. SERVICE LEVELS & RESPONSE

- 5.1 Local Support:** The bidder must have a service office or authorized representative within ~50 km of Duliajan to ensure quick response.
- 5.2 Service Engineers:** Only qualified, OEM-trained technicians and engineers may work on the machines. Unskilled labor is not permitted. (For safety and warranty, repairs should be done by personnel authorized by the CNC OEM or equivalent.)
- 5.3 Performance Metrics:** Breakdown calls must be responded to within 48 hours. Vendor must meet the agreed Mean Time To Repair (MTTR); OIL targets ≤6 hours downtime per machine per month. Multiple breakdowns or prolonged repairs will invoke penalties per the subsequent tender.
- 5.4 On-site Coordination:** All maintenance will be coordinated through the CWS shift engineer or designated officer. Work will generally occur during official hours (07:00–15:30, Mon–Sat). OIL does not provide accommodations or TA/DA. Emergency visits (beyond schedule) are on-call.

6. SPARE PARTS & CONSUMABLES

- 6.1 Spare Parts Supply:** The AMC covers service labour; all *chargeable* spare parts and consumables are supplied by CWS/OIL. The vendor will identify required spares, provide estimates, and only install them with written approval. Spare parts must be OEM originals or OEM-approved equivalents, brand-new, and comply with relevant quality/safety standards. No refurbished or unauthorized parts are allowed without prior written consent. Consumables (cutting oils, lubricants, filters, belts, bulbs, batteries, etc.) are managed by OIL (excluded from AMC cost).
- 6.2 Pricing & Warranty:** Spare parts prices (if invoiced to OIL) will follow current OEM price lists or mutually agreed schedule. Any price escalation needs written approval. All installed spares carry a minimum 6-month warranty (or OEM warranty) from install date. Defective parts under warranty must be replaced at no cost. Vendor should maintain awareness of lead times for critical spares and notify CWS of potential delays.
- 6.3 Stocking:** Vendors should suggest a list of critical spares for each machine. OIL encourages clients to maintain an inventory of recommended spares to minimize downtime.

7. VENDOR QUALIFICATIONS

- 7.1 Experience:** Vendors (OEMs or third-party service firms) must demonstrate experience in servicing CNC machines of similar makes/controllers. Submitting companies should provide case histories or certificates for past AMC/CAMC contracts on comparable equipment. Experience with PSUs or Government Organization or Government Institutions is an advantage.
- 7.2 OEM Authorization:** OEMs or their authorized dealers/service centers are preferred (with proof of certification for the specific machine categories). Third-party bidders must show robust in-house capability (trained multi-disciplinary engineers, demo tools, etc.).
- 7.3 Personnel & Infrastructure:** The bidder should have a team of qualified mechanical and electrical engineers, CNC/PLC programmers, and technicians. Availability of specialized tools, test equipment, and lathes/grinders for off-site repairs is a plus. Presence of a local/regional service office with spare parts inventory will strengthen the bid.
- 7.4 Compliance:** Vendor must comply with all Indian procurement rules (statutory taxes, MSE policies, Purchase Preference, etc.) as per tender terms.

8. INSPECTION / SITE VISIT

Prospective bidders are encouraged to inspect the CNC machines and workshop facilities. A site visit can be arranged during the EOI period by contacting the Dy. General Manager (Field Engineering - CWS). This will help bidders understand machine conditions, shop layout, and related infrastructure. Visits should be scheduled in advance; CWS will facilitate access on working days.

9. SUBMISSION & EVALUATION

This EOI is **for pre-qualification only**; it does *not* constitute a contract offer. Interested vendors should submit capabilities and relevant credentials. After evaluation, suitable firms may be invited for a limited tender (AMC/CMC contract), where detailed scope, SLAs, pricing format and terms will be finalized.

Applicants are required to submit the duly filed application form as mentioned below along with their supporting Documents/Certificates in the Attachments (Response Sheet No. 1, 2, 3 and 4) enclosed in this document.

OIL reserves the right to shortlist or reject any or all EOI responses without assigning reasons. Submission of EOI implies acceptance of all terms herein.

No request for future AMC/CMC will be entertained outside the formal tender process.

All communications regarding this EOI should be addressed to the Dy. General Manager (Field Engineering - CWS), OIL, Duliajan.

10. INSTRUCTION TO THE APPLICANTS

- 10.1 The Application Document can be downloaded free of cost from our website www.oil-india.com
- 10.2 All costs incurred by applicant for preparing and submitting the EoI, in providing clarification or any other expenses whatsoever shall be borne by Applicants themselves.
- 10.3 The Application for empanelment is non-transferable.
- 10.4 Applicants are required to furnish all information and documents as called for in this document in English language preferably. Any printed literature furnished by the Applicant in another language to be accompanied by an English translation, which shall govern in case of any variation.
- 10.5 The financial data must be in Indian Rupees only.
- 10.6 If it is established that the Applicant has submitted fraudulent documents or has indulged into corrupt and fraudulent practice at any point of time, the Applicant would be debarred from the Empanelment / tendering / taking up of work in OIL as per OIL's banning policy.
- 10.7 OIL reserves the right to cross check and confirm the information / details furnished by the Applicant at any time during the period of empanelment
- 10.8 Joint Ventures or Consortium of firms shall not be allowed to apply for Empanelment.
- 10.9 After empanelment, depending upon the requirement, OIL will float limited tender within the empanelled consultant asking them to submit their price bid (in amount) for a particular project and the L1 bidder will be awarded the work. However, at the time of submission of bids in response to specific projects, the short-listed applicant's technical and financial capability may be re-assessed for the capacity and capability as per the

Eligibility Criteria for the specific project. The details of work and all data necessary for the project will be provided in the subsequent limited tender document.

- 10.10 Time schedule of delivery and payment schedule of consultancy services will be detailed in the subsequent limited tenders.
- 10.11 The empanelment of the vendors/firms will be for a period of 2 (two) years from the date of empanelment. However, OIL reserves the right to cancel the empanelment of any or all the consultant(s) and invite fresh proposals for empanelment at any time. In case, the period of empanelment is expired or cancelled, any work awarded during the currency of the empanelment will not be affected and such work shall continue till completion, as per the terms of the subsequent contract
- 10.12 OIL reserves the right to extend the period of empanelment of vendors/firms for further period depending on the requirement and the performance of the consultancy firms. The decision of the company in this regard would be final.

11. ADDRESS FOR COMMUNICATION

Interested EOI applicants are requested to visit our website www.oil-india.com for further details on the above and submit their Expression of Interest latest by **05.10.2026 till 15:00 Hrs (IST)** to the following email addresses: bikash_bharali@oilindia.in & ratnadeep.malakar@oilindia.in. EOI Submitted to the email ids bikash_bharali@oilindia.in & ratnadeep.malakar@oilindia.in shall only be considered and therefore Interested EOI applicants are requested to submit their EOI to these e-mail ids only.

For any clarification, the EOI applicant may contact:

Mr. Bikash Bharali Dy. General Manager – FE (CWS) Central Workshop, Field Engineering Department, OIL INDIA LIMITED Duliajan, ASSAM - 786602 Email: bikash_bharali@oilindia.in Mobile: 9435302790	Mr. Ratnadeep Malakar Superintending Engineer – FE (CWS) Central Workshop, Field Engineering Department, OIL INDIA LIMITED Duliajan, ASSAM - 786602 Email: ratnadeep.malakar@oilindia.in Mobile: 6000833909
--	---

APPLICANT'S GENERAL INFORMATION

To
The Chief General Manager (HOD)
Field Engineering Department
Oil India Limited
Duliajan, ASSAM – 786602

Sub: **EOI Ref. No. FE/CWS/EOI/ /2026 for empanelment as Vendor for Annual Maintenance Contract (AMC) services of all CNC Machines at Central Workshop, Field Engineering Department, Oil India Limited.**

SN	Description	Details
1	Name of the Applicant	
2	Status of Firm/ Company: [Mark √]	Proprietorship Firm / Partnership Firm/ Company (Private or Public)
3	Brief description of the Company including details of its business groups/subsidiaries	
3	Number of years in the business	
4	Details of Technical Manpower	
5	Registered Office Address:	
6	Operational Address:	
7	Telephone No. & Fax No.:	
8	E-mail ID & Website:	

(Sign & Company Seal)
Authorized signatory

DECLARATION

To
The Chief General Manager (HOD)
Field Engineering Department
Oil India Limited
Duliajan, ASSAM – 786602

Sub: **EOI Ref. No. FE/CWS/EOI/ /2026 for empanelment as Vendor for Annual Maintenance Contract (AMC) services of all CNC Machines at Central Workshop, Field Engineering Department, Oil India Limited.**

Dear Sir / Madam,

We hereby confirm that we are not under any 'liquidation', any 'court receivership' or similar proceedings and 'bankruptcy' and we agree that if any noticed in future, our application may be rejected / terminated.

In case the applicant has any dispute in court of law of any kind which can affect the services as spelled in the Scope, in such case the applicant shall furnish the status of all cases along with all relevant documents.

(Sign & Company Seal)

Authorized signatory

PROFORMA FOR FURNISHING DETAILS OF PAST EXPERIENCE DURING LAST FIVE YEARS

Sl. No.	Client Detail (Name and Address)	Details of AMC Service Provided for CNC Machines	Work Order / Contract no / Completion Certificate No.	Date of Completion of Project

(All relevant documents including Work Order, Contract Document, Work Completion Certificate, etc. to be attached)

(Sign & Company Seal)

Authorized signatory