



**NORTH EASTERN REGIONAL INSTITUTE OF
SCIENCE & TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
NIRJULI :: ITANAGAR :: ARUNACHAL PRADESH**

**OPEN TENDER NOTICE NO. PUR/393/Central Workshop/2025-26
Dated. 23/03/2026**

THE LAST DATE OF RECEIPT OF TENDER	:	13/04/2026 up to 4.00 PM
DATE OF OPENING OF TENDER	:	14/04/2025 at 4.00 PM



NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of the UGC Act, 1956)

Under the Ministry of Education, Govt. of India

NIRJULI :: ARUNACHAL PRADESH

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TENDER NOTIFICATION NO. PUR/393/Central Workshop/2025-26

Dated. 13/03/2026

Sealed tenders are invited from reputed manufacturers/authorized dealers for supply, installation, and commissioning of the laboratory items for the Central Workshop (Mechanical Engineering Department). The details of tender can be downloaded from our website : www.nerist.ac.in. Tender fee of Rs.2,500/- (non refundable). The last date of receiving tender is 13/04/2026 upto 4.00 PM and the date of opening of tender is 14/04/20226 at 4.00 PM. The Director, NERIST reserves the right to accept or reject any tender partly or fully without assigning any reasons whatsoever.

Sd/-

Assistant Registrar (S&P)

CONTENT

Sl. No.	Particulars	Page No.
1.	Terms & Conditions	1 – 4
2.	Equipment / Items	5 – 15

// 1 //

**NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY
NIRJULI :: (ITANAGAR) :: ARUNACHAL PRADESH**

OPEN TENDER : NO. PUR/393/Central Workshop/2025-26 Dated. 23/03/2026

TERMS AND CONDITIONS :

1. A) Rate : The rate which should be quoted both in figure & words must be not inclusive of packing forwarding freight and all other incidentals charges.
- B) GST : Rate inclusive of GST will not be preferred. GST to be shown separately.
2. A) Consignee : All stores are required to be consigned to the Director, North Eastern Regional Institute of Science & Technology, Itanagar, Nirjuli, Arunachal Pradesh – 791109.
- B) Mode of dispatch : The consignment is required to be dispatched by Road Transport or delivered at this Institute under supplier's own arrangement free of additional charges. All offers of delivery should be made ex-stock and clear note should be inserted in case of damage or loss in transit, if any will be borne by the supplier.
- C) Dispatch of Document: The consignment note along with the quadruplicate of copy of relevant bill and two copies of priced challan should dispatch to the Director, NERIST, Nirjuli (Itanagar), Arunachal Pradesh – 791 109 immediately on completion of dispatch of consignment. If these documents do not reach the said office in time all wharf age/demurrage incurred, if any will be recoverable from the suppliers.
3. Delivery : The stores are required to be delivered/dispatched within thirty (30) days from the date of receipt of the supply order OR as per mutual agreement, suppliers are requested to take care that all the items mentioned above are to be supplied in full set basis and the items are required to be installed in the Laboratory/field. Users manuals are also to be provided along with the items supplied.
4. Quality Specification : The stores offered should be of the best/standard quality available unless, otherwise specified conforming strictly to the specification cited. The Director reserves the right to reject such stores as are found unacceptable on these grounds. Items of only reputed manufacturers will be given preference.

Contd.....P/2

5. Liquidated damages : If a firm accepts the order and fails to execute the order in full or part as per terms and conditions stipulated therein, it will be open to the Competent Authority to recover liquidated damages from the firm at the rate of 1% per month or the part thereof, subject to a maximum of 5% of the value of the undelivered stores. It will also be open to the Competent Authority, alternatively to arrange procurement of the required stores from any source, at the risk and expense of the firm that has accepted the order and failed to execute the order according to stipulations agreed upon. This will also entail removal of the defaulters name from the approved/registered list of suppliers.
6. A) Submission of quotation: Quotation should be submitted to the Assistant Registrar (S&P), NERIST, Itanagar, Nirjuli, Arunachal Pradesh – 791109 in double sealed cover. The cover should bear tender enquiry/Notice Number and date.
- B) Earnest Money : At the time of submission of Tender, the earnest money in the form of Demand Draft Deposit @2% on the quoted tender value is to be deposited with the tender which will be interest free. No Tender will be accepted without earnest money. The earnest money is to be deposited in favour of Director, NERIST on State Bank of India, NERIST Branch. On receipt of supply order, in case the firm fails to supply, the earnest money will be forfeited.
7. Validity (Firmness): The rate should be valid for six months from the date of opening of tender. No representation for enhancement of price once accepted will be considered during the contract.
8. Opening of Quotation: (a) Every quotation will be opened on the date and time as fixed in presence of a duly constituted committee of the Institute. A firm may depute its accredited representative to witness the opening if it so desires.
- (b) In the event of the specified date for the opening of Tender is declared a holiday or due to any circumstances, if the Tenders could not be opened on the specified date by the NERIST, the Tenders will be opened at the appointed time and location on the next working date.
9. GST clearance : The tender should be accompanied by up to date GST Return certificate.

10. Mode of payment : Payment will be made on receipt of the bill (on full satisfactory supply of ordered stores, their commissioning, installation etc. as required as per terms and conditions) through RTGS. No advance payment will be made to any selected firm as per Institute norm.
11. Quantity of Stores : The Purchaser reserves the right to increase or decrease the quantity to be ordered of bid quantity and actual quantities of item will be fixed as per our requirement at the time of placement of purchase order.
12. Special discount/rebate: Special discount/rebate admissible to Educational Institute of National importance may be specifically indicated in the quotation.
13. Rejection of offer : Tenders not conforming to the terms and conditions and procedure so out lined are liable to be rejected summarily.
14. Guarantee/Warranty : The stores should be covered by warranty of quality/warranty of performance and manufactures defect for a minimum period of thirty six months OR as per company norms, from the date of satisfactory installation.
15. Special condition : Special condition, if any, printed on the quotation sheets of the tenders or condition attached with the tender will not be applicable to the contract unless these are expressly accepted in writing by the Director. Due weight age will be given to bidder offering warranty for a longer period.
16. ISI Marks : The tenders shall specify whether the articles offered bear bureau of Indian standard certification mark or not. In such cases they shall produce copies of certification mark along with their tender in support of it. Also, specific make and model No. of the item is to be mentioned.
17. Discretionary power : The Director, NERIST reserves the right to accept or reject any or all tenders without assigning any reason there of and also to modify in exceptional case any of the stipulated terms and conditions on merit on genuine and justifying grounds if it is in the larger interest of the Institute. The final acceptance of the tenders rests entirely with the Director who does not bind himself to accept the lowest tender.
18. Tender fee: Tender fee of Rs.2,500.00 (Rupees two thousand five hundred) only (nonrefundable) in the form of Demand Draft in favour of Director, NERIST, Payable at SBI, NERIST Branch must be sent along with tenders.

// 4 //

19. Receipt of the tender: The last date of receiving tender is 13/04/2025 upto 4.00 PM.
20. Price: Abnormal price OR price higher than prevailing Market Rate / MRP will not be accepted.
21. This is not a turnkey project, so interested bidder can participate for full/part.

22. The following updated documents should also accompany with the tenders:

- Trade License
- Income Tax clearance certificate
- GST Registration certificate
- Up to date GST return Certificate.
- Authorization must be from Original Equipment Manufacturer (OEM). The OEM certificate will be cross verified. If found faulty, the firm will be liable to be blacklisted by the Institute.
- Manufacturer /Proprietary Certificate.
- All the above documents are mandatory.

Sd/-
Assistant Registrar (S&P)
NERIST :: NIRJULI
ARUNACHAL PRADESH

Contd.....P/5

Central Workshop (Mechanical Engineering Department)

Sl. No.	Items	Specification	Quantity
1.	Mounting Press (Hot Mounting Machine)	Detailed specification at Annexure-A	01
2.	6 Axis Robotic Cell for multi-purpose	Detailed specification at Annexure-B	01
3.	Drilling-cum-Milling (mill-drill) machine with stand	Detailed specification at Annexure-C	01
4.	Educational CNC Trainer Lathe Machine	Detailed specification at Annexure-D	01
5.	Educational CNC Trainer Milling Machine	Detailed specification at Annexure-E	01
6.	Slotting Machine	Detailed specification at Annexure-F	01

Contd.... P/6

Annexure A

1. Equipment Name: Mounting Press (Hot Mounting Machine)

Quantity: 01

Detailed Specifications

Parameter	Specification
Mounting Type	Hot Mounting (Thermoplastic Compression Type)
Operation Mode	Semi-automatic / Fully automatic
Sample Diameter	Standard dies: 25 mm, 30 mm, or 40 mm
Mould Material	Hardened stainless steel or high-strength alloy die
Heater Power	1.2 kW – 2.5 kW (depending on size)
Temperature Range	Ambient to 200°C – 300°C
Mounting Pressure	Up to 250 – 350 bar (3.5–5 ton)
Cycle Time	5 – 15 minutes per sample
Cooling System	Air-cooled / Water-cooled
Control Interface	Digital / touch panel PID controller with cycle timer, pressure & temp. display
Power Supply	230 V, 50 Hz (single-phase)
Safety Features	Over-temperature cut-off, pressure release valve, auto stop on door open
Machine Body	Powder-coated mild steel, insulated chamber
Mounting Compounds	Bakelite (black/red), Epoxy, Acrylic, Transparent resins

Contd.... P/7

2. Equipment Name: 6-Axis Robotic Cell for multi-purpose

Quantity: 01

Detailed Specifications**Robot Arm & Motion**

- Robot type: 6-axis industrial robot (e.g., Dobot CR10, JAKA Zu 7, or similar cost-effective models suitable for welding, handling, and basic machining)
- Payload capacity: 6–10 kg
- Maximum reach: 1400–1800 mm
- Repeatability: ± 0.02 – 0.03 mm
- Mounting orientation: Floor-mounted, wall-mounted, or inverted
- Axes motors: Servo motors with absolute encoders for high precision

Workstation & Cell

- Work table/positioner: Fixed steel table with provision for optional rotary positioner (manual or motorized) for complex joint orientations
- Safety features:
 - Enclosed cell frame with polycarbonate safety panels
 - Safety interlocks on access doors
 - Emergency stop buttons at multiple locations
 - Risk-assessed collaborative mode option for operator interaction
- Lighting: Internal LED work lighting for better visibility

Programming & Operation

- Programming interface:
 - Handheld touchscreen teach pendant (≥ 7 -inch display)
 - Offline programming capability via PC software
 - USB/Ethernet connectivity for program upload
- Programming modes: Direct teach, point-to-point programming, and AI-assisted path generation
- Simulation: Offline simulation software for motion verification

Controller & Power Source

- Control system: Integrated robot controller with servo drive unit
- Power requirement: Single-phase 230 V or three-phase 415 V, 50 Hz
- Memory: Minimum 2 GB program storage capacity
- Diagnostics: On-screen fault logging and troubleshooting guidance

Optional Add-ons

- Vision system: Compact industrial camera for part recognition/alignment (extra cost if selected)
- Tooling options: Quick-change flange for welding torch, gripper, or dispensing head

Annexure C

3. Drilling-cum-Milling (mill-drill) machine with stand

Quantity: 01

Detailed Specifications

- Drilling Capacity (Steel): 40 mm
- Spindle Travel / Drilling Depth: 40 mm
- Motor Power: 2 HP
- No. of Spindle Speeds: Multi-step (not specified)
- Net Weight: ~400 kg
- Type: Pillar drill with integrated milling slide and DRO (Digital Read-Out)

4. Equipment Name: Educational CNC Trainer Lathe Machine

Quantity: 01

Detailed Specifications

Machine Structure & Build

- **Machine type:** Compact CNC trainer lathe (bench-top or small floor-standing) for educational and light prototyping use.
- **Bed type:** Flat-bed, rigid cast iron or steel structure.
- **Maximum turning diameter:** 80–120 mm
- **Maximum turning length:** 200–300 mm
- **Spindle bore:** 20–30 mm
- **Spindle speed:** 100–3000 RPM (variable via VFD)
- **Main drive:** 1–2 kW AC motor
- **Axis travel (X/Z):**
 - X-axis: ~100 mm
 - Z-axis: ~250 mm
- **Axis drive:** Ball screw with stepper/servo motors.
- **Positioning accuracy:** ± 0.02 mm
- **Repeatability:** ± 0.015 mm

Control & Programming

- **CNC controller:** Low-cost industrial controller (FANUC-compatible, Siemens SINUMERIK 808D BASIC, or PC-based Mach3/Mach4).
- **Display:** 7–10" touchscreen or small industrial LCD.
- **Programming modes:** G-code programming, conversational cycles.
- **Offline programming software:** Compatible CAM software (Fusion 360 EDU, Mach3/Mach4, or proprietary vendor software).
- **Data transfer:** USB, LAN, or SD card.

Tooling & Accessories

- **Tool post:** 4-station manual or quick-change tool post.
- **Tailstock:** Manual, MT-2 taper.
- **Coolant system:** Small pump with recirculation tank.
- **Workholding:** 3-jaw manual chuck (\varnothing 100–125 mm).

// 11 //

- **Tool holders:** Basic turning, facing, and boring holders.
- **Safety features:** Emergency stop, spindle guard, interlocks.

Training & Educational Features

- Designed for teaching CNC turning basics, G-code structure, tooling setup, and small part manufacturing.
- Suitable for cutting aluminum, brass, plastics, and mild steel (light cuts).
- Can be used for demonstration, basic component manufacturing, and skill development labs.

5. Equipment Name: Educational CNC Trainer Milling Machine

Quantity: 01

Detailed Specifications

Machine Structure & Build

- **Machine Type:** Compact CNC vertical milling trainer, 3-axis.
- **Construction:** Cast iron base and column for vibration damping; compact footprint for classroom/lab use.
- **Work Table Size:** ~300 mm × 150 mm
- **Table Load Capacity:** 15–20 kg
- **X/Y/Z Axis Travel:**
 - X-axis: 200–250 mm
 - Y-axis: 120–150 mm
 - Z-axis: 150–200 mm
- **Spindle Nose to Table Distance:** 50–250 mm (adjustable)
- **Spindle Taper/Collet:** ER-16 or ER-25 collet chuck system

Spindle & Motion

- **Spindle Speed:** 500–5000 RPM (variable, electronically controlled)
- **Drive System:** Stepper motor or low-cost servo motor drive
- **Feed Rate:** 0–1500 mm/min (programmable)
- **Repeatability:** ±0.02 mm or better
- **Positioning Accuracy:** ±0.05 mm

Control System & Programming

- **Controller Type:** PC-based CNC controller or standalone LCD controller (Mach3/GRBL or equivalent)
- **Control Interface:** USB/Ethernet connection; G-code compatibility (ISO standard)
- **Programming Modes:**
 - Manual Data Input (MDI)
 - G-code upload from CAD/CAM
- **Teach Mode:** Step-by-step execution for learning purposes

Safety & Accessories

- **Safety Features:** Emergency stop, spindle guard, axis limit switches
- **Standard Accessories:** Set of ER collets, basic work holding vice, tool set, coolant bottle (manual spray)
- **Optional:** Basic mist coolant system, small enclosure for chip control

Power Requirements

- **Power Supply:** Single phase, 230 V AC, 50 Hz
- **Power Consumption:** < 2 kW

6. Equipment Name: Slotting Machine

Quantity: 01

Detailed Specifications

Machine Structure & Build

- **Machine Type:** Pedestal type, geared slotting machine suitable for educational/training purposes
- **Construction:** Heavy-duty rigid cast iron column & base, precision machined slides for smooth operation
- **Table Size:** ~250 mm × 250 mm (rotary or fixed table type)
- **Table Adjustment:** Longitudinal, cross, and rotary movement for machining versatility
- **Maximum Slotting Stroke Length:** 150–250 mm (adjustable)
- **Stroke per Minute:** 30–80 SPM (variable, mechanical or V-belt drive)
- **Table Travel:**
 - Longitudinal: 150–200 mm
 - Cross: 100–150 mm
 - Rotary: $\pm 45^\circ$ (for rotary table type)

Tool & Work Capacity

- **Maximum Job Height:** 200–250 mm under ram
- **Maximum Job Diameter (Rotary Table):** ~400 mm
- **Cutting Tool Holding:** Standard slotting tool holder with adjustable clamping
- **Typical Applications:** Keyways, internal splines, slots in gears, square holes, blind keyways

Drive & Motion

- **Motor:** 1–1.5 HP, 3-phase induction motor (1440 RPM)
- **Transmission:** Gear and crank mechanism for ram movement
- **Speed Selection:** Multi-step pulley or gearbox for stroke rate changes
- **Feed Mechanism:** Automatic table feed (longitudinal/cross) with manual override

Control & Safety

- **Safety Features:** Emergency stop switch, guard over moving linkages, overload protection for motor
- **Manual Controls:** Handwheel for fine positioning, locking levers for table adjustment

Power Requirements

- **Power Supply:** 3-phase, 415 V AC, 50 Hz
- **Power Consumption:** < 2 kW

Accessories

- Standard slotting tool set (HSS) – 5 pieces
- Machine vice – 150 mm
- Allen key & spanner set
- Instruction & maintenance manual