

NOTICE INVITING QUOTATION

Procurement of Programmed Vacuum controlled solvent library rotary vacuum evaporator
system for chemistry research lab



NIQ NUMBER: NITD/2025/S&P/NIQ/015

NATIONAL INSTITUTE OF TECHNOLOGY DELHI
An autonomous Institute under the aegis of
Ministry of Education (Shiksha Mantralaya), Government of India
Plot FA7, Zone P-1, GT Karnal Road
Delhi - 110036

NIT Delhi is an autonomous Institute under the aegis of Ministry of Education (Shiksha Mantralaya), Government of India. The Institute is inviting bids for the Procurement of Programmed Vacuum controlled solvent library rotary vacuum evaporator system for chemistry research lab.

Quotations need to be submitted only through registered/Indian Post/ Speed Post, No by hand Quotation will be entertained. The bidders are requested to read the technical specifications carefully and ensure compliance with all specifications/ instructions. Non-compliance with specifications/ instructions mentioned in this document may lead to disqualification of the bidders.

The Competent authority of NIT Delhi reserves the right to accept/reject the offer or to accept/reject any bid wholly or partly or to cancel the complete purchase process without assigning any reason whatsoever. Incomplete bids or late bid submissions are liable to be ignored and rejected.

The quotations are hereby invited on behalf of THE DIRECTOR, NATIONAL INSTITUTE OF TECHNOLOGY (NITD) DELHI from the bidders with respect to the following item categories:

ITEM CATEGORIES

S. No.	Item	Quantity	Specification of the item
1	Programmed Vacuum controlled solvent library rotary vacuum evaporator system. (Make- IKA, EYELA, Buchi etc. equivalent to or higher)	1	As per Annexure I

IMPORTANT DATES

1. Last date for receiving quotation: 08 November 2025
2. Tentative Date of opening quotations: 10 November 2025 at 4:00 PM

OTHER TERMS AND CONDITIONS

1. Rates are to be quoted by the vendors on F.O.R basis.
2. The items quoted by the vendor should be new and as per the specifications mentioned in Annexure-I.
3. Rates to be quoted should be final (including delivery, installation, freight & labour charges etc) and nothing extra shall be paid over the quoted rates by the Institute. Annexure II is attached for the same.
4. The quotation must include separate Technical and Financial documents, each placed in individual sealed envelopes. These two envelopes should then be enclosed in one large, sealed envelope. Only bids that are technically qualified will be considered for the opening of the financial quotations.
5. Kindly note that the actual number of items is tentative, and the quantity may increase/decrease at the time of placing the order as per the requirement of the Institute.
6. Payment will be released only after satisfactory supply, installation, and inspection of the items by the Institute.
7. No part payment requests shall be entertained by the Institute and the payment shall be processed only after the delivery, installation, and inspection of all the ordered items as per the Purchase Order issued by the Institute.
8. **Maximum Delivery Period should be 30 days.**
9. **Copies of GST Registration and PAN** shall be provided.

ADDITIONAL INFORMATION / DOCUMENTS REQUIRED

1. The **delivery period** needs to be explicitly mentioned while quoting by the vendor.
2. The **warranty period** needs to be explicitly mentioned by the vendor.
3. **The printed literature and/or catalogue/brochure giving full technical details should be included with the quotation to verify the specifications quoted by the vendor.**

4. The bidders should provide copies of suitable documents in support of their reputation, credentials, and past performance.
5. The vendor should provide the documents in support of firm's registration with appropriate authorities.

***Heading on the envelope must be mentioned.**

"Programmed Vacuum controlled solvent library rotary vacuum evaporator system for chemistry research lab."

The postal address for submitting the Quotations in hard copy is as follows:

The Store & Purchase Section
3rd Floor, Admin Block
National Institute of Technology (NIT) Delhi
Plot No. FA-7 Zone P1, GT Karnal Road, Delhi-110036.

CONTACT DETAILS

If any queries related to the said NIQ then contact on below mentioned contact number or email address:

Name: Puneet

Designation: Superintendent, Store & Purchase

Phone: 01133861026

Email: centralstore@nitdelhi.ac.in

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Faculty Incharge (S&P)
National Institute of Technology, Delhi

Technical Specification

Rotary evaporator

Rotation speed control: 10 – 300 or more rpm with digital set & display for clock & anti-clockwise rotation

Minimum settable variation/accuracy: ± 1 rpm

Jack movement: Manual, 170-180 mm step less movement

Condenser: Vertical double helix type with 1450 cm² cooling area or higher & design to prevent reverse condensate flow into vacuum seal & sample flask, tiltable design for small flasks

Condensing capacity: 1.3L/hr (water) or higher

Rotary joint/vapor tube: Ts29/38 or 24/40 type.

Flasks: Sample flask pear shaped 29/38 or 24/40, Receiving flask round 35/20

Vacuum seal: Teflon R/ Teflon R- Viton make double seal.

Footprint: 540-545 W x 350-355D x 820-825 H mm

Heating Bath

Bath temp range: PID controlled, RT+5 to 90°C, display for setting & monitoring.

Temp accuracy: $\pm 1^\circ\text{C}$ or better

Bath: 4-5L for up to 2L sample flask capability with carrying handle

Safety: Protection against empty heating and settable high-temp alarms, Sensor & heater should be external to the bath for ease of cleaning, external insulation to the Bath to prevent heat shock, carrying handle for ease of draining of bath

Bath dimension: $\varnothing$ 240 x 120Hmm,

Vacuum pump (RPM control type)

Vapor displacement material: Corrosion-resistant PTFE and NBR make valves & diaphragm heads

Type: Single cylinder/2 stage displacement w/carrying handle

Ultimate vacuum: 10 mbar

Suction rate: Variable from 1.2 to 1.8m³/h $\simeq$ 20 to 30 L/min

Safety/convenience features: Equipped with a motor malfunction detector, a noise reducer and freely rotating inlet/outlet nozzles.

Programmable Digital Vacuum controller with solvent library mode

Typical 55 types of solvents are present

Working modes: Manual, Step control program, Automatic program with vapor sensor & pre-set Solvent (library) program with timer

Pressure detection & control range: 0-1000 mbar/0-760mm Hg with settable control accuracy/hysteresis

Accuracy: ± 1 -2 mbar

Control panel: Digital color display (4-5") console for provision setting & monitoring (Vacuum, Time, Heating Bath temp & RPM in text & graphic modes), status & alarm (for low vacuum) indications.

Additional features: Hold, Auto Leak & Valve Cleaning programs

Vacuum control: By controlling Pump RPM & valve control for purging.

Safety: Alarm for Hi & Lo vacuum (beyond hysteresis), Alarm for failure to reach setpoint, Alarm and leakage beyond atmospheric system pressure, Alarm for pressure sensor fault

Sd/-

Faculty In-charge
(Store & Purchase)