



**PATNA UNIVERSITY, PATNA**

**QUOTATION DOCUMENT FOR  
SUPPLY OF LAB EQUIPMENT FOR  
DEPARTMENT OF CHEMISTRY, PATNA  
UNIVERSITY, PATNA**

**(JUNE 2026)**

## GENERAL TERMS AND CONDITIONS

### **1) APPLY PROCEDURE**

- a) Quotation document should be placed in a properly sealed envelope addressed to “The University Engineer, Patna University, Patna - 800 005” with heading NIQ No.: .... /2026-27 dated ... /... /2026 for Sr. No. ...., Name of Work: .....
- b) Cost of quotation paper (Nun refundable) to be deposited through D.D in favor of “University Engineer, Patna University, Patna”.

### **2) QUOTATION VALIDITY**

Quotation shall remain open for acceptance for a period of 180 days from the date of opening of Quotation. Quotations received for shorter validity will be rejected.

### **3) QUOTATIONER’S ELIGIBILITY AND QUALIFICATIONS FOR TECHNICAL BID**

The Quotationer shall furnish as a part of the Quotation document, following documents establishing their eligibility to participate in the Quotation and qualification to perform the contract.

- a) The bidder shall submit full details of his Agency / Firm or, if the bidder is a Proprietorship/Partnership or a Private Limited Company, full details of ownership and name of the directors.
- b) Copy of PAN card issued by the Income Tax Department and Copy of the Income Tax Return for the financial year 2022-23, 2023-24, 2024-25. Copy of GST.
- c) The quotationer/bidders must have 20 Lakh turn over or received Purchase Order/Work Order payment in previous three financial years and current financial year up to the date of submission of Technical Bid.  
The tenderers/bidders shall submit certificate to this effect which may be issued by the concerned client or audited balance sheet clearly showing the amount of contractual receipts and certified by a Chartered Accountant.
- d) Experience in Similar supply experience amount involve upto 50% of Bid Value during last five years.
- e) The Bidder, to qualify for the award of contract, shall submit a written power of attorney authorizing the signatories of the Quotation document to participate in the quotation.
- f) The Bidder submit a written acceptance of technical specification full fill compliance letter on letterhead.

### **4) EARNEST MONEY DEPOSIT**

The final amount of EMD will be applicable as mentioned in quotation document is to be deposited in the shape of D.D./ Banker’s cheque/TD pleased in favour of “University Engineer, Patna University, Patna” which is refundable after completion of work.

- 5) Patna University shall not be responsible for non-receipt of bid due to internet issues or any other reasons whatsoever.
- 6) The Bidder should inspect the site before participating in this e-quotation to get fully acquainted with the scope of work as no claim whatsoever will be entertained for any alleged ignorance thereof.
- 7) The bidder is expected to examine all Instructions, Forms, Terms and Conditions in the Bid document. Failure to furnish all information required by the quotation document or submission of a quotation document not substantially responsive to the quotation document will be at the bidder’s risk and may result in rejection of his quotation document.
- 8) The bidder shall be solely liable to bear all costs and expenses associated with preparation and submission

of this quotation. Patna University will in no case be responsible for payment of any costs associated with the preparation or submission of this quotation irrespective of the outcome of the bidding process as also in case entire bidding process or part thereof is nullified/cancelled due to any reason whatsoever.

- 9) No quotation can be modified and withdrawn after the deadline for submission of quotation.
- 10) The quotation document shall be evaluated by a committee constituted for this purpose by the Patna University.
- 11) Any clarification related to bid document may be obtained from University Engineer, Patna University, Patna on Mobile No. +919431012707 between 2- 5 PM, OR Email: puer@patnauniversity.ac.in
- 12) **REJECTION OF QUOTATION:** Any quotation will be outright rejected on the ground
- (a) if bid is not accompanied by requisite cost of quotation paper and EMD .
  - (b) If required eligible criteria supporting documents in Technical Sheet are not submitted.

13) **TIE BREAKING CLAUSE:** In case two or more bidders quote same rate then the successful bidder will be decided through lottery system as per rule.

**14) PRICE SCHEDULE AND PAYMENT TERMS: -**

- a) Quotationers should quote rate of all equipment as per Financial Sheet. Patna University, Patna is not bound to accept the lowest bid or any Quotation and also reserves the right of rejecting all or any of the quotation without assigning any reason. As per Bihar Financial Rules, supply order will be given after negotiating rates with the lowest rate offering agency(L1).
- b) Payment: 100% against supply of equipment.
- c) All payments will be made in Indian rupees only and statutory deduction as per applicable rule i.e. IT@2%, GST@2%, Security Deposit 8% (which will be refundable after expiry of warranty period or one year after supply and installation of equipment whichever is earlier) of gross amount of bill.
- d) Bill in triplicate (pre-receipted) for the equipment supplied will be submitted by the Quotationer in the name of Registrar, Patna University, Patna for payment. The payment will be released only after the entire supply has been received to the satisfaction of the Registrar or authorized Committee.

**15) TERMS OF DELIVERY:-**

Free of cost delivery at Central Store, Patna University, Patna or Department/Institutions or directed by Registrar, Patna University, Patna

**16) DELIVERY PERIOD:-**

The equipment available in India will be supplied as per scheduled period.

**23) PENALTY CLAUSE:-**

- (a) **For delays**-if the supplier fails to supply as per purchase order within the time period specified in the contract, the purchaser shall deduct from contract price a sum equivalent to 0.5 percent of the price of delayed items for each week of delay or part thereof until actual delivery up to a maximum of 10 (ten) percent. Once the maximum reached, the purchaser may consider termination of the contract.
- (b) **Termination for default:** - The purchaser may without prejudice to any other remedy or breach of contract, by written notice of default sent to the supplier, terminate the contract in whole or part if the supplier fails to deliver any or all publications ordered to him within the time period specified in the contract, or if the supplier fails to perform other obligation(s) under the contract. In the event of the

termination of the contract by University Engineer, Patna University, Patna in whole or in part, the University may procure, upon such terms and in such manner as it deems appropriate the undelivered equipment the supplier shall be liable to pay for any excess costs for such purchases. However, the supplier shall continue performance of the contract to the extent not terminated.

- (c) **Force majeure** - The supplier shall not be liable for (a) and (b) above, if its delay in performance or other failure to perform its obligations under the contract is the result of an event of force majeure (means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable). Such events may include, but are not restricted to, acts of the purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargo. The supplier shall promptly notify the purchaser in writing of such conditions and the causes thereof.

#### **24) INSPECTION**

Supplied equipment will be accepted only after the inspection by the competent authority or any officer authorized by competent authority. Quotationers are required to comply with the above requirements and submit their Quotation complete in all respects and submit following documents along with the Quotation by the due date and time on Quotation.

- 25)** No Quotation may be withdrawn in the interval between the deadline for submission of Quotations and the expiry of the period of Quotation validity. Withdrawal of a Quotation during the interval may result in the Quotationer's forfeiture of its Earnest Money Deposit.
- 26)** The successful Quotationer shall not in any case sublet the contract in full or any part of it to third party
- 27)** The University Engineer, Patna University, Patna reserves the right to accept or reject any Quotation and to the annual Quotationing process and reject any or all Quotations at any time prior to award of the contract, without thereby incurring any liability to the affected Quotationers or Quotationers or any obligations to inform the affected Quotationers or Quotationers of the grounds for the purchaser's action.

#### **28) RESOLUTION OF DISPUTES**

In case of a dispute or difference arising between supplier and purchaser relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the Sole Arbitrator duly appointed by the Vice Chancellor, Patna University, Patna. The award of the arbitrator shall be final and binding to the parties concerned.

## Technical Sheet

### Sr. No. 8 Supply of Lab Equipment for Department of Chemistry, Patna University, Patna

Cost of quotation document			Required Earnest Money		
DD/Banker's Check No.	Date	Amount	Ref. No.	Date	Amount
		₹			₹

**Bid should indicate following information along with the self-attested photocopies of supporting documents:**

1. THE FIRM
  - a) Name \_\_\_\_\_ (Power of attorney attached pg no. ....)
  - b) Registration No of firm. \_\_\_\_\_ (Attached pg no.....)
  - c) Address of Office at Patna \_\_\_\_\_
  - d) Contact Person's
    - i) Name & Design. \_\_\_\_\_
    - ii) Address \_\_\_\_\_
    - iii) Tel No. Landline \_\_\_\_\_ Mobile \_\_\_\_\_
    - iv) Email ID \_\_\_\_\_
  - v) Type of Firm : Proprietorship/ Private Ltd./Public Ltd./ Cooperative/ NGO/PSU (Please tick and enclose copy of Memorandum/ Articles of Association/ Certificate of Incorporation)  
\_\_\_\_\_ enclosed. (Pl. specify) Pg No. ....)
2. (i) PAN : \_\_\_\_\_ enclosed. (Pl. specify) (Attached pg no.....)
- (ii) GST : \_\_\_\_\_ enclosed. (Pl. specify) (Attached pg no.....)
- (iii) 3 years return file: FY 2022-23 Gross Value \_\_\_\_\_ Tax Deducted \_\_\_\_\_  
FY 2023-24 Gross Value \_\_\_\_\_ Tax Deducted \_\_\_\_\_  
FY 2024-25 Gross Value \_\_\_\_\_ Tax Deducted \_\_\_\_\_  
(attached page no. ....)
3. Turn Over as mentioned: FY 2022-23 Turn Over: ₹ \_\_\_\_\_  
FY 2023-24 Turn Over ₹ \_\_\_\_\_  
FY 2024-25 Turn Over ₹ \_\_\_\_\_  
(attached page no. ....)
4. Experience certificate of similar work: Value: ₹ \_\_\_\_\_ completion of year: \_\_\_\_\_  
Name of Govt. Org./University: \_\_\_\_\_ (Attached pg. no.....)
5. Powe of Attorney authorizing the Signatories of the Quotation: \_\_\_\_\_  
(Attached pg. no.....)
6. Technical Specification acceptance compliance letter : \_\_\_\_\_  
(Attached pg. no.....)

Signatures of authorized person

Name \_\_\_\_\_

Designation \_\_\_\_\_

Seal:

Date:

## FINANCIAL SHEET

**SR. NO.8: Supply of equipment for Department of Chemistry, Patna University,  
Patna**

<b>Name of agency:</b>					
<b>Address:</b>					
Sl. No.	Name of Instruments	Qty	Rate	Unit	Amount
1	Polarimeter	1		Each	
2	Rotavapor	1		Each	
3	Flame Photometer	1		Each	
4	Potentiometer	2		Each	
5	PH meter	2		Each	
6	Conductivity meter	2		Each	
7	Soxhlet	3		Each	
8	Digital Chemical Balance	1		Each	
9	Hot air oven	1		Each	
10	High vaccum suction pumps	1		Each	
11	Digital melting point apparatus	2		Each	
12	Magnetic stirrer with hot plate	1		Each	
<b>Bid Amount in figure ₹</b>					
<b>In word: Rupees</b>					
Note:					
1. Rate quoted in Indian Rupees inclusive GST.					
2. The quantity of the above equipment may in increase or decrease as a time of issue of supply order.					
Instruction: Bidder should quote the rate in given Financial Sheet and upload the sheet in price break-up section of BOQ Tab and also quote Gross Total in rate section of BOQ Tab					

Signatures of authorized person

Name\_\_\_\_\_

Designation\_\_\_\_\_

Seal:

Date:

## TECHNICAL SPECIFICATION

### Sr. No. 8: Supply of Lab Equipment for Department of Chemistry

#### Digital Polarimeter:

##### Specifications

- Power 1 Watt (w)
- Product Type Meter
- Voltage 230 Volt (v)
- Color White. Blue
- Material Mild Steel, Stainless Steel
- Dimension (L\*W\*H) 850x500x470 Millimeter (mm)
- Application Laboratory
- Weight 30-40 Kilograms (kg)

#### Digital Melting Point Apparatus

##### Specifications

Type	Digital
Type of Product	Digital Melting Point Apparatus
Model No	HTLP-071
Display Type	4 Digit, 7-Segment LED
Voltage	220-230 V
Application	Clinical, Pharmaceutical, Life Science and Industrial Laboratories
Outer Body Material	MS Powder Coated
Usage For	For accurate measurement of melting points
Name of Manufacturer/Packer/Importer	Hi- Tech Lab Products

#### High vacuum pump

Specification:

Type Diaphragm Vacuum Pumps

Number Of Stages Double

Stage

Model Name/Number Vacuum Pumps oil free

Usage/Application Industrial

Application Pharma Industry, Chemical Industry, All types of laboratories, Institutes & Research Centres

Power 110 V AC Brand:

Labline

## Digital Conductivity Meter (Electronics India)

Display	3½ Digit LED	
Measurement	Conductivity & Temperature	Conductivity & Temperature
Ranges	Five Ranges 0 – 200 µS/cm 0 – 2 mS/cm 0 – 20 mS/cm 0 – 200 mS/cm 0 – 1000 mS/cm	Six Ranges 0 – 20 µS/cm 0 – 200 µS/cm 0 – 2 mS/cm 0 – 20 mS/cm 0 – 200 mS/cm 0 – 1000 mS/cm
Range Selection	Automatic in 5 Ranges	Automatic in 6 Ranges
Temperature Range	0 to 100 °C	0 to 100 °C
Accuracy Cond. Temp.	±0.5 % FS ± 1Digit Temp: ±0.1°C ± 1Digit	±0.5 % FS ± 1Digit ±0.1°C ± 1Digit
Temperature Compensation	Auto : 0 to 50 °C Manual : 0 to 50 °C	Auto : 0 to 50 °C Manual : 0 to 50 °C
Cell constant	Adjustable on Digital Display	
Measuring Cell	Platinum DIP Type	
Auto Cell Constant Measurement	Available	Available
Accessories	Conductivity Cell, Operation Manual, Dust Cover, Cell Stand, Temperature Probe (with models 602 and 601)	

## Soxhlet Apparatus

Specification:

Type of Product	Extraction Apparatus Soxhlet Complete With Allihn Condenser
Model No	3840020
Capacity	200 ml
Flask Capacity	500 ml
Country of Origin	India
Name of Manufacturer/Packer/Importer	Borosil Limited

## Magnetic stirrer with hot plate

<b>Brand NAME</b>	Remi
<b>Capacity</b>	2 litres
<b>Stirring Paddle</b>	Q-19 9 x 25 mm
<b>Dimensions</b>	150 x 220 x 150 mm
<b>Type</b>	With Hotplate
<b>Capacity</b>	2 litres

## Digital Potentiometer

Length	23 cm
Brand	Sky
Resistance Range	0-1999.9 mv
Voltage	220 v ac
Material	metal
Color	white
Usage/Application	lab
Part Number	sky 484
Rated Power	220 v ac
Resolution	0.1 mv
Type	table top
Approx cost: 5000/-	

## **Rotary Evaporator with Vacuum pump and Chiller**

### **(a) Rotary Evaporator**

- \* Lift type: Hand lift
- \* Height adjustment speed: Manual
- \* Height adjustment range :155 mm
- \* Rotation speed range : 20-280 rpm
- \* Rotation speed setting : Scale
- \* Drive: DC motor with electronic speed control
- \* Heating capacity: 1,300 W
- \* Heating bath temperature range: 20-210 ° C
- \* Temperature accuracy :  $\pm 1K$
- \* Overheat cut- off Protection: 5°C over set temperature via separate PT 100 sensor
- \* Bath temperature display: Digital
- \* Heating bath temperature control: Electronic / digital
- \* Secondary over temperature cut-off: 250 °C
- \* Heating bath material: V4A (1.4404) stainless steel
- \* Heating bath diameter: 255 mm
- \* Heating bath volume : 4.5 L
- \* Supply power: 1,400 W
- \* Weight: 16 Kg
- \* Dimensions (L x W x H) : 395 x 490 x 430 mm
- \* Protection class : IP20
- \* Operating conditions: 0-40 °C at 80% relative humidity
- \* Cooling surface area: 1,400 cm<sup>2</sup>

### **(b) Specifications for Vacuum Pump**

- \* Suction Capacity: 0.75 m<sup>3</sup>/h
- \* Ultimate Vacuum: 12 mbar
- \* Power Input : 80 W
- \* Dimensions ( L x Wx H) : 145 x 315 x 169 mm
- \* Weight: 6 kg

### **(c) Chiller**

- \* Storage Tank Marmum Capacity: 5 Liters
- \* Temperature Range: -20°C to 20°C (Option: -20° C to 80° C)
- \* Ambient Temperature Range:  $\pm 5^{\circ}C$  to 30° C
- \* Temperature Accuracy:  $\pm 2^{\circ}C$
- \* Cooling Capacity at 10°C : 530 W
- \* Cooling Capacity at 0° C : 230 W
- \* Cooling Capacity at 20°C: 0.6 W
- \* Cooling Capacity at 0°C (Alternate Measurement) : 0.23 W
- \* Cooling Capacity at -20°C : 0.09 W
- \* Refrigerant: R404A
- \* Security Features: Delay, leakage, overcurrent, overvoltage
- \* Sensor: PT100
- \* Display LCD
- \* Total Power: 550 W
- \* Power Requirements: AC220V  $\pm 10\%$  /50 Hz
- \* Pump Flow Max: 6 L/min
- \* Maximum Head: 9 m
- \* intet / Outlet Pipe Diameter: 10 mm (to 10 pagoda)
- \* Noise Level: 45 dB
- \* Liquid Tank Opening /Depth: 240 mm x 150 mm x 150 mm
- \* Dimensions (WxD x H): 210 mm x 410 mm x 511 mm (includes caster )
- \* Adaptation Rotary Evaporator (L/SET) : 2L x 1

## Digital Flame Photometer

### Specifications

Range Na: 0 – 100 ppm

K : 0 – 100 ppm

Ca: 15 – 100 ppm

Li: 10 – 100 ppm (Optional)

Sensitivity: Na: 5 ppm

K : 5 ppm Ca: 10

ppm

Li: 10 ppm

Accuracy + 2% upto 40 ppm,+ 5% above 40 ppm

Measurement System: One element at a time

Readout 2½ Digit 7-Segment LED

Ignition System: In-built electronic Ignition by press of switch

Repeatability: + 2 Counts

Detector: Silicon Photodiode

Filters; Narrow band interference glass filters

Nebulizer; Black bakelite, axial flow type

Flame System; LPG & dry oil free air

Warm-Up Time; 10 minutes

Power: 230 V + 10% AC, 50 Hz

Dimensions 375 x 245 x 220 mm (L x B x H) (Approx.)

Weight 7.5 Kg (Approx.)

#### COMPRESSOR UNIT

Air Supply; By oil free mini compressor unit with pressure regulator

Combustion Gas; LPG controlled by precision regulator

Power; 230 V + 10% AC, 50 Hz

Dimensions; 290 x 255 x 210 mm (L x B x H) (Approx.)

Weight 8 Kg (Approx.)

## Digital Chemical Balance:

Accuracy	.01 gm
Model No.	PGB 600
Readability	.01g
Brand	Wensar
Application	Laboratory Chemical balance
Calibration	Automatic External
Dimensions	360x230x140
Make	Wensar
Power Source	Rechargeable Battery
Tare	Full
Weight	2.5 Kg
Plate Diameter	120 mm
Weighing	Digital

## Hot air Oven

Technical Specifications		
Parameter	RDHO 50	RDHO 80
Internal dimension (W x D x H mm)	420x395x350	450x400x450
External dimension (W x D x H mm)	720x590x520	740x618x630
Chamber volume (Litres)	50	80
Temperature range	RT+10°~300°C	
Temperature accuracy	1°C	
Display resolution	±1°C	
Timing range	1~9999min	
Shelves (Nos)	2	
Power consumption	1100W	1550W
Electrical requirements	220V, 50Hz, Single phase	

Repeatability:  $\pm 1\text{mV} \pm 1$  digit

Temperature range (Automatic compensation):

Range: : 0 to 100 °C

Resolution: 01°C

Repeatability:  $\pm 0.2^\circ\text{C} \pm 1$  digit

Manual Temperature setting: °C to 60 °C, User selectable

Sample ID no setting: : 0 to 99, User selectable

Deviation to buffer pH value

acceptable for calibration: pH approx.

Stability: 0.01 pH per hour

Display: 7 digits, 7 segment LEDs (3 for temperature and 5 for pH) with Auto polarity and decimal point. Mode annunciation by LED

Power Requirement: : 230 V AC  $\pm 10\%$ , 50 liz

Dimensions: 250 (W), 240 (D), 110 (H)

Weight: 2.2 Kg approx.

Accessories

(a) Supplied

Manual :(i) Electrode (ii) Electrode stand (iii) Instructional

(b) Optional :Centronic printer interface