

The Quotation must be sent in a sealed cover super-scribed with our reference no. and due date of opening, failing which the Quotation will be rendered invalid.

**DEPARTMENT OF BIOTECHNOLOGY
GURU NANAK DEV UNIVERSITY, AMRITSAR**

Ref.
Date:

1170/BTS

/BTS 20/01/2026

NOTICE FOR INVITING QUOTATION

Sir/Madam,

Quotations are invited for the purchase of "Nitrogen & Hydrogen Cylinder with accessories" as per the specification mentioned below through "Indian Registered Post/Tracking courier" in a sealed cover super-scribed: Quotation for the supply of "Nitrogen & Hydrogen Cylinder with accessories". The quotation should reach the office of Head, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, PIN-143005, latest by 27 January, 2026.

Item to be purchased:

Sr. No.	Name of Item	Qty	Price including GST
1	Nitrogen Cylinder	1	
2	Hydrogen Cylinder	1	
3	Regulators	2	
4	Key for Regulators	2	

Specifications for Nitrogen Cylinder:

Material: Seamless steel (C-Mn Steel).

Capacity: Common size is 46.7 Liters water capacity, holding approximately 7 cubic meters (7 m³) of gas at NTP (Normal Temperature and Pressure).

Pressure:

Working Pressure: ~150 bar (2175 psi) at 15°C.

Hydraulic Test Pressure: ~250 bar (3625 psi).

Dimensions (Typical 7m³ cylinder):

Outside Diameter: ~232 mm.

Length: ~1370 mm (without cap).

Minimum Wall Thickness: ~5.2 - 5.5 mm.

Weight (Tare): ~52 - 55 kg (empty).

Purity: Varies, commonly 99.99% (Grade 4.0) or 99.999% (Grade 5.0) for high-purity applications, with low critical impurities like oxygen and moisture.

Valve: Brass, O-ring sealed, conforming to IS 3224, with a handwheel and safety cap (neck ring).

Bottom: Concave.

Compliance & Safety

Standards: Must conform to Indian Standards like IS 7285 (for cylinders) and IS 3224 (for valves).

Certifications: Requires approval from PESO (Petroleum and Explosives Safety Organisation) or BIS (Bureau of Indian Standards) certification.

Painting: As per Gas Cylinders Rules 2004 (often smoke grey).

(Signature)
Dr. Meenu Hans
(Assistant Professor/PI)

Note:

1. Validity of quoted rates should be for minimum upto 02 months.
2. Rates should be For GNDU campus, Amritsar.
3. Only Bill payment will be made in INR after successful installation
4. (No advance payment will be made in any case)

(Signature)
Dr. Prakash Chandra Mishra
Head

Deptt. of Biotechnology
Guru Nanak Dev University
Amritsar-143005

(Signature)
20/01/2026