

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	
	<u>Specifications for Nitrogen Cylinder:</u> Material: Seamless steel (C-Mn Steel). Capacity: Common size is 46.7 Liters water capacity, holding approximately 7 cubic meters (7 m ³) 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).		

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

Prakash Chandra Mishra
Dr. Prakash Chandra Mishra
Head

Head
Deptt. of Biotechnology
Guru Nanak Dev University
Amritsar-143005

Note:

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

Prakash Chandra Mishra
20/01/2026