

**Technical specifications for nitrogen (N<sub>2</sub>) and argon (Ar) gas distribution system**

IISER Mohali is inviting quotes for the installation of nitrogen and argon distribution system for a research laboratory.

*Technical and financial bid should be quoted in separate sealed envelopes and labeled. Please send both envelop sealed in a large envelope to:*

**Assistant Registrar  
Purchase Section  
IISER Mohali, Knowledge City  
Sector 81, SAS Nagar, Manauli PO 140306 (Punjab)**

**For N<sub>2</sub> Distribution System**

S. No.	Item/Description	Quantity
(1)	<b>1/4" Gas controller and purification system for N<sub>2</sub> with mounting brackets</b> Including moisture and oxygen drying system. Moisture trap based on molecular sieves & blue silica gel. Oxygen trap based on commercially available catalyst 100cc that can be regenerated. (Each panel must contain one on/off valve, pressure gauge & pressure regulator to regulate the pressure with appropriate end fittings).	02
(2)	1/4" Online micron filters	02
(3)	1/4" SS316 tubing with color coated sleeve (straight); approx. length	150 feet
(4)	Dual stage cylinder regulator, Spectron (Messer make) <i>(for N<sub>2</sub>)</i> Body: Brass (chromplated) Diaphragm: Stainless steel Diaphragm Seal: Teflon Inlet Pressure: 0 to 280 kg/cm <sup>2</sup> Outlet Pressure: 0 to 16 kg/cm <sup>2</sup> Gauges: Wika (Germany)	02
(5)	Single cylinder manifold with mounting bracket <i>(for N<sub>2</sub>)</i> Material: Stainless steel 316 Needle Valve: As per IS3224	02
(6)	1/4" SS tube clamp (Single line)	20
(7)	SS Braided <i>high pressure pigtail</i> for N <sub>2</sub>	02
(8)	1/4" NPT(M) X 10mm Nozzle	08
(9)	1/4" NPT(M) X 1/4" OD connector	08
(10)	Mini online pressure regulator with bracket Spectron (Messer make) for <i>inlet pressure 0-7 kg/cm<sup>2</sup></i>	06
(11)	1/4" SS Tee with fittings <i>(for N<sub>2</sub> gas line)</i>	06
(12)	1/4" SS Union with fittings <i>(for N<sub>2</sub> gas line)</i>	15
(13)	1/4" OD x 1/4" OD union (with fittings)	08
(14)	1/4" OD x 1/4" OD bulkhead	03

**Note:** Please include necessary miscellaneous fittings and hardware set.