



# NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM

**Ravangla Sub Division, South Sikkim-737139**

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## NOTICE INVITING QUOTATION

Sealed quotations are invited from authorized dealers / standard manufacturers / agencies for Supply of “**Gas filled Cylinders**” as per the enclosed Annexure, as per the terms and conditions mentioned below:

### **TERMS AND CONDITIONS:**

Your quotation should reach this office on or before 31 / 01 / 2018 at 15:00 Hrs. The quotations received will be opened on the same day at 15:30 Hrs. at Department of Chemistry, NIT Sikkim in the presence of those who are willing to be present at the time of opening.

1. Details of taxes such as GST etc. if any should be clearly mentioned.
2. The quotation should be addressed to the **Dr. Achintesh Narayan Biswas, Department of Chemistry, National Institute of Technology Sikkim, Ravangla Sub Division, South Sikkim 737139.**
3. The cover containing the quotation should be super scribed with the words **QUOTATION FOR GAS FILLED CYLINDERS FOR LABORATORY.**
4. The bidders shall submit Sales Tax / GST registration certificate(s).
5. Normally, the lowest rates quoted will be accepted, but the undersigned reserves the right to reject any or all the quotations without assigning any reasons.
6. The warranty offered on the supplied item shall be for minimum 12 months.
7. All the erasing, mistakes, over writing should be duly attested; else it will make the quotation, disqualify.
8. All duties, GST, transportation and other levies payable by the suppliers / contractor under the contract shall be included in the total price.
9. Samples should be supplied if asked for or should be shown to the undersigned / his representative for inspection and approval.
10. Payment will generally be made within 30 days from the date of completion of supply, in correct and in good condition or receipt of your bill whichever is later and **as per the Institute's policy no advance payment is payable.**
11. The material need to be delivered at the office of the undersigned within 30 days from the date of supply order at your own cost.
12. Validity of the quotation should be for a period of minimum 60 days from the date of opening.
13. The bidders are requested to offer their best-discounted rates. No extra payment will be made other than the quoted amount. The rate shall be inclusive of all taxes, duties, entry tax, transportation, freight insurance etc.
14. The Explosive Certificates shall be provided for each cylinders separately along with the test certificates at the time of supply.

Dr. Achintesh Narayan Biswas  
Department of Chemistry, National Institute of Technology Sikkim  
Ravangla Sub Division, South Sikkim 737 139  
Email: [achintesh@nitsikkim.ac.in](mailto:achintesh@nitsikkim.ac.in)

### Technical Specification

<b>A. N<sub>2</sub> Filled Cylinder with regulator</b>
<p>1. Filled with nitrogen gas (Ultra High purity, 99.99 %), Brand new High Pressure Seamless Gas Cylinder.</p> <p>2. Cylinders are to be ISI marked, conforming to IS: 7285-1988 specification.</p> <p>3. Other technical details are as under:</p> <ul style="list-style-type: none"> <li>a). water capacity: 46.7/47 litres</li> <li>b). Gas Capacity: 7 cum.</li> <li>c). Outer dia.: 232 mm</li> <li>d). Wall Thickness: 5.5 mm</li> <li>e). Test Pressure: 250 kg/cm<sup>2</sup></li> <li>f). Working Pressure: 150 kg/cm<sup>2</sup></li> <li>g) Length (W/O Cap &amp; valve) :1370 mm</li> <li>h). Tare Weight: 54 kg</li> <li>i). Type of bottom: Concave</li> <li>j). Valve Specification: As per IS: 3224</li> <li>k). Material of construction: Carbon Mn Steel</li> <li>l). Neck Thread : 25.4 mm</li> </ul> <p>4. Cylinders are to be fitted with valve as per IS 3224 and protection cap, complete with neck ring and painted as specified under Gas Cylinders Rules,1981.</p> <p>5. Double stage SS regulator suitable for N<sub>2</sub> cylinder</p>
<b>B. Zero Air Filled Cylinder with regulator</b>
<p>1. Filled with Zero air gas (Ultra High purity, 99.99 %), Brand new High Pressure Seamless Gas Cylinder.</p> <p>2. Cylinders are to be ISI marked, conforming to IS: 7285-1988 specification.</p> <p>3. Other technical details are as under:</p> <ul style="list-style-type: none"> <li>a). water capacity: 46.7/47 litres</li> <li>b). Gas Capacity: 7 cum.</li> <li>c). Outer dia.: 232 mm</li> <li>d). Wall Thickness: 5.5 mm</li> <li>e). Test Pressure: 250 kg/cm<sup>2</sup></li> <li>f). Working Pressure: 150 kg/cm<sup>2</sup></li> <li>g) Length (W/O Cap &amp; valve) :1370 mm</li> <li>h). Tare Weight: 54 kg</li> <li>i). Type of bottom: Concave</li> <li>j). Valve Specification: As per IS: 3224</li> <li>k). Material of construction: Carbon Mn Steel</li> <li>l). Neck Thread : 25.4 mm</li> </ul> <p>4. Cylinders are to be fitted with valve as per IS 3224 and protection cap, complete with neck ring and painted as specified under Gas Cylinders Rules,1981.</p> <p>5. Double stage SS regulator suitable for Zero-air cylinder.</p>

### **C. H<sub>2</sub> Filled Cylinder with regulator**

1. Filled with Hydrogen gas (Ultra High purity, 99.99 %), Brand new High Pressure Seamless Gas Cylinder.
2. Cylinders are to be ISI marked, conforming to IS: 7285-1988 specification.
3. Other technical details are as under:
  - a). water capacity: 46.7/47 litres
  - b). Gas Capacity: 7 cum.
  - c). Outer dia.: 232 mm
  - d). Wall Thickness: 5.5 mm
  - e). Test Pressure: 250 kg/cm<sup>2</sup>
  - f). Working Pressure: 150 kg/cm<sup>2</sup>
  - g) Length (W/O Cap & valve) :1370 mm
  - h). Tare Weight: 54 kg
  - i). Type of bottom: Concave
  - j). Valve Specification: As per IS: 3224
  - k). Material of construction: Carbon Mn Steel
  - l). Neck Thread : 25.4 mm
4. Cylinders are to be fitted with valve as per IS 3224 and protection cap, complete with neck ring and painted as specified under Gas Cylinders Rules,1981.
5. Double stage SS regulator suitable for H<sub>2</sub> cylinder

### **D. Argon Filled Cylinder with regulator**

1. Filled with nitrogen gas (Ultra High purity, 99.99 %), Brand new High Pressure Seamless Gas Cylinder.
2. Cylinders are to be ISI marked, conforming to IS: 7285-1988 specification.
3. Other technical details are as under:
  - a). water capacity: 46.7/47 litres
  - b). Gas Capacity: 7 cum.
  - c). Outer dia.: 232 mm
  - d). Wall Thickness: 5.5 mm
  - e). Test Pressure: 250 kg/cm<sup>2</sup>
  - f). Working Pressure: 150 kg/cm<sup>2</sup>
  - g) Length (W/O Cap & valve) :1370 mm
  - h). Tare Weight: 54 kg
  - i). Type of bottom: Concave
  - j). Valve Specification: As per IS: 3224
  - k). Material of construction: Carbon Mn Steel
  - l). Neck Thread : 25.4 mm
4. Cylinders are to be fitted with valve as per IS 3224 and protection cap, complete with neck ring and painted as specified under Gas Cylinders Rules,1981.
5. Double stage SS regulator suitable for argon cylinder.