

Enquiry No: PHY/LHE/2014-2015/2 (Deadline 7th Feb.2015)

The Central Cryogenics Facilities, Department of Physics, IIT Kanpur invites quotation for **Liquid helium and liquid Nitrogen Containers**. The Specifications are given below

1. Liquid helium Container:

Net Capacity- 100 L, Gross Capacity -110 L, Material of Construction-304 Stainless Steel, N.E.R. (Normal Evaporation Rate)-1 %, Operating Pressure -10 PSI, Design Pressure -45 PSI, Neck ID 1.45", Depth (Flange to Bottom)- 46", Outside Overall Diameter-24", Height -59", Maximum Transfer Line O.D.-1/2", Minimum Transfer Line O.D.-3/8", Transfer Line Length For Withdrawal-56", Minimum Fill Lance Length- 30", Caster Size-4", Vent Connection (MNPT)- 1/2", Liquid valve, Vent valve, Isolation valve, Relief Valve, 15PSI, Relief valve, 10PSI, Pressure Control valve- 0.5PSI, Compound Pressure Gauge 30" Hg-0-15PSI

2. Liquid Nitrogen Container-

Net Liter Capacity-160 L, Outside Diameter -22", Height -56", N.E.R. (Normal Evaporation Rate) -2.2 L/day, M.A.W.P. (Maximum Allowable Working Pressure)- 25 PSI, Regulator Setting -20, Secondary Relief -100 PSI, Caster Size -4", Level Gauge, Liquid Flow@22 PSI-TBD, Liquid Fitting- CGA 295 1/2" 45° male Flare, Vent Fitting - 3/8" NPT, Material of Construction-304 grade Stainless Steel, Liquid Fill/Withdrawal Valve, Pressure Building, Vent Valve, Rupture Disk, Relief Device, Pressure Gauge, Liquid Level Building, Pressure Building Regulator, Pressure Building Coil.

Terms and conditions:

- * Maximum educational discount, if any should be offered
- * All units must be equipped with integral caster wheel base
- * Two -year warranty on vacuum
- * All the taxes need to be clearly specified in the quotation
- * Transportation conditions such as FOR/Ex-works/To & Fro charges should be clearly mentioned in the quotation
- * Delivery period should be clearly mentioned
- * Quotation should be valid upto 60 days
- * Maximum educational discount, if any should be offered.
- * Quotation should carry all the appropriate certifications like agency certificate, proprietary certificate if applicable etc.
- * The bidders must enclose a list where their sputtering chambers have been supplied and Installed. Final decisions will take into account market reputation.

Method of submitting the quotation

The prospective suppliers are required to send quotation as two separate sealed envelopes. One envelope labeled as "**Technical Bid**" should contain **only the technical specifications** and the "**Financial Bid**" should contain **only the financial documents** relating to the price bid. **Note the Technical Bid should contain detailed technical specification of the product being offered and should not mention any prices.** The Financial Bid should include the detailed price quotation clearly including the cost of the equipment, taxes, service charges if any, shipping and handling charges. Both the sealed and labeled bids need to be sent to the address below (both sealed and labeled envelopes are to be enclosed in a single envelope while sending).

Please send sealed offer latest by **7th Feb.2015** in favour of Prof. Satyajit Banerjee,
Convener, Central Cryogenics Facilities, Department of Physics, IIT Kanpur.

Sincerely

Prof. Satyajit Banerjee,
Convener, Central Cryogenics Facilities,
Department of Physics, IIT Kanpur