Prof. K. Sreenivas, Director
University Science Instrumentation Center, (USIC)
Near Dept. Physics
University of Delhi, Delhi – 110007, INDIA

E-mail: directorusic.du@gmail.com

Limited Tender enquiry Date: 07-12-2015

Director, USIC, Univ. of Delhi invites sealed quotations from reputed manufacturers/authorized agents, or dealers for the supply of a Liquid nitrogen storage tank.

Technical bid and Financial bid must be submitted in separate envelopes, and both envelopes to be enclosed in one big envelope- **Super-scribed with our Reference No**.

1) **Item description**: **Liquid Nitrogen Storage Tank**

2) **Our Reference No**. USIC/415/2015/XII Plan/LN2 tank

3) **Technical bid** Must consist of the following documents in a **sealed envelope**

Super-scribed with our Ref. No., and marked as Technical bid.

i) Covering Letter on your Company letter head. (**Format given below**)
Cover letter must be **signed and contact person details to be given.**
Give details of: PAN, TIN No., Bank account details with IFSC code
For direct transfer of payment.

ii) Compliance to our Technical specifications (**Our desired specs given below**)

iii) Printed Product leaflet/picture of the product with specs.

iv) Validity of the offer (min 60 days required)

v) Delivery schedule after receiving the order, **Delivery to be made at our site.**

vi) General warranty

vii) To whom you have supplied earlier in recent years – Attach list of clients/users

viii) If OEM manufacturer – Give manufacturing authorization form

ix) Provide the following details:

1.	Name of the company
2.	Specify if authorized dealer/OEM company, In case of dealer **attach** authorization certificate
3.	Details of the registered office of the company (OEM/Dealer) - Year of establishment, Registration No. Address, Contact person's name , Tel. phone Nos. and Mobile phone Nos.
4.	Maintenance and Local service center facilities Give Address, Tel No. and contact details
5.	The vendor should have executed orders of supplying during the **TWO** years to Academic institutions/**Central or State govt**. offices, Attach order copies without price information
6.	Tendered must submit a certificate that he has not been debarred from participation in Tender process

4) Financial bid: Must be given in a **separate sealed envelope** super-scribed – "Financial bid" with Our Ref. No.

i) Indicate item wise prices of the product being offered.

ii) All taxes- **Indicate separately**: Excise, Sales, Insurance, Transit, and Installation charges etc.,

iii) Specify terms and conditions. (Note: We cannot give advance payment.
100% payment against (Delivery + installation) within 30 days.

5) Address **Director**

(Where the tender is to be submitted) Univ. Science Instrumentation Center
(Near Dept. of Physics and Astrophysics
University of Delhi (North campus)
Delhi-110007

6) Last date for Tender submission **30th Dec. 2015, 4:00 PM.**

7) Technical bid opening date **30th Dec. 2015, 4:30 PM**

Representative of all bidders are invited at the time of Opening of the submitted bids

The Univ. reserves the right to reject any or all of the tenders received without assigning any reason thereof.

A) **Format for the Covering letter**: To be submitted by the **supplier on the bidder's Company letter head**.
(Letter to be submitted along with the Technical bid)

The Director,
Univ. Science Instrumentation Center
University of Delhi
Delhi-110 007 Sub: Submission of Technical and Price bid for "Liquid Nitrogen storage tank"

We, the undersigned (herein after called as Contractor/Vendors/Suppliers) hereby offer to execute the supply of items as per specifications against which we have submitted the following documents separately: (a) Technical bid in sealed envelope, and (b) Price bid in sealed envelope"
The submitted documents may be accepted at the rates stated there in and subject to the terms & conditions set forth for such items as may be ordered by the Director, Univ. Science Instrumentation Center, Univ. of Delhi

Date…… Signature (Full name)
Company seal/stamp Address:….. Contact details: (Tel./ mobile Tel nos. and E-mail)

B) Our Desired **Technical specifications**

Our required specifications	Mention your offered specifications Specify compliance and deviation if any
Our purpose: Bulk storage of Liquid nitrogen, and to draw LN2 from the tank Whenever required for distribution. Note: Vaporizer **not required** for producing N2 gas. Cryogenic storage tank to store liquid nitrogen (LN_2) (i) Specify Gross volume Capacity: **approx. (950 to 1000) liters required** (ii) Specify Net capacity	
Tank configuration : **Vertical**	
Insulation High quality insulation required (super insulated + vacuum)	
Inner vessel - Specify the quality of steel to be used - Specify maximum allowed working pressure - Temp withstanding range reqd. (-196 to 35 °C)	
Outer vessel – specify the quality of steel to be used	
Pressure: - Specify the max allowable working pressure (inner vessel)	
Valves: All valves marked with identification tags & lifting hooks All valves to be made up of SS/Bronze Specify piping material Location of valves & accessories to be explained in the design diagram	
List of Safety devices: Specify No. of safety valves and their locations	
Gauges: Large size (~100 mm dia) level gauge & pressure gauge	
Weight Empty weight …….. and Full weight with N2……	
Dimensions: **Overall** Height of the frame on which tank is mounted Dimension of the inner and outer vessels. All External surface to be coated. Specify No. of coats	
Frame: Tank mounting on steel frame with strong galvanized base. - Give overall dimensions of the frame (LxWxH) The (frame + container) to be designed for convenience to handle with forklift/chain pulley/overhead crane and mobile crane	
Drawings to be provided Flow scheme drawing……. GA reference drawing……. Concrete platform dimensions reqd. to place the tank with frame at our site.	
List of Documentation: Maintenance and operating manual Test certificates of cryogenic pressure vessel, CCOE approvals Manufacturing approval for the model offered from PESO organization Third party inspection certificate & approvals Test reports and Material heat chart for inner vessel pressure parts Certificate of safety valve, pressure & level gauge	
Delivery and complete installation time.	