

Technical Specification of Liquid Nitrogen

Sl. No.	Name and Specification of the item	Quantity
1.	<p>Supply of Liquid Nitrogen as per following specification –</p> <ol style="list-style-type: none"> 1. Purity : $\geq 99.998\%$ 2. Oxygen : ≤ 10 ppm (V/V) 3. Moisture : ≤ 2 ppm (V/V) <p>1 Litre Liquid Nitrogen = 0.71 cu. M of Nitrogen Gas at N.T.P.</p> <p>Note :</p> <ol style="list-style-type: none"> 4. Quality Certificate of material is to be submitted during supply of each consignment. 5. Supplier of LN₂ should provide weighment certificate for gross weight (taken at the time of coming) and tare weight (taken on way back) from any nearby weighbridge (tested & stamped by the controller of legal metrology, Govt. of West Bengal). The difference in weight will be considered for billing. 6. Supply will be made on 'As and When Required' basis within 12 months from the date of purchase order. 7. Supplier should provide the purity certificate for each consignment. <p><u>General Conditions :</u></p> <ol style="list-style-type: none"> 1. In the event of an order, the supplier shall arrange delivery of the consignment as per the scheduled date on requisition. In case the delivery schedule could not be adhered, the same should be informed to VECC by fax / e.mail at least 2 days in advance. 2. The valid licence to transport compressed gas in a vehicle as per SMPV Rules and issued by the Chief Controller of Explosives, PESO, Nagpur should be made available with the vehicle carrying LN₂. If this is not available, the decantation of LN₂ at VECC's premises will be at VECC's discretion. 	750000 litres.

1. Purchase Order may be split between two vendors as per following - In between two (2) parties then ratio of splitting should be 60 : 40 between lowest and second lowest bidders respectively, provided second lowest bidder agrees to supply at L1, the rate of lowest bidder.

In case second lowest bidder would not agree to the L1 price, Purchase order will be placed on the lowest bidder L1 only.
2. Delivery will be made as and when required basis within a span of 12 months in around 54 installments from the date of purchase order.
3. Offer should be evaluated based on the following-
 - a) The past credentials of the vendor w.r.t. supply of LN₂ to VECC or any other Govt. organization at Kolkata are required.
 - b) The LN₂ requirement at VECC is continuous for operation of Superconducting Cyclotron and in order to keep a balance between consumption and supply, offers from the Producers, who can supply liquid nitrogen to us within 5 days from the date of our requisition will only be considered for evaluation.
 - c) Offers only from vendors who have their own LN₂ Production facility close to Kolkatta and satisfying the clause 2(a)&(b)are only considered. Offers from traders will be outright rejected.
 - d) LN₂ production capacity per day of the vendor's plant should not be less than 100 TPD.