



Institute of Infrastructure Technology Research And Management

(A Government of Gujarat Initiative)

Nr. Khokhra Circle, Maninagar (East),
Ahmedabad-380 026.

Tel. : +91-79-67775488 / 67775499

Fax : +91-79-67775475

E-mail : office@iitram.ac.in

Website : www.iitram.ac.in

No. : IITRAM/Corrigendum/2018/ *1104*

Date: 08/06/2018

Corrigendum - 1 in e-Tender Notice (2018/30)

IITRAM has invited sealed bid for the procurement of various items, the same has been published on n-procure website on 04-06-2018.

In Tender of **Procurement of Liquid Nitrogen Pressurized Cylinder** (Tender No. 2018/30) for IITRAM, following is the corrigendum:

1. In tender document, **Annexure-V: Compliance Report** is incomplete, thus do not consider that document.

Kindly read as follows:

Annexure-V is not to be considered as tender document. Kindly consider new document uploaded with the name as: **“ANNEX-V”**



Registrar

ANNEX-V

Compliance report

(I) Name of Instrument : Liquid Nitrogen Pressurized Cylinder

Sr. No.	Specification of e-Tender	Specification of Bidder/Vendor	Deviation (Yes/No)	Remarks
1	<p>Specifications for Liquid Nitrogen Pressurized Cylinder</p> <p>Capacity : 200 liters</p> <p>Configuration : Vertical</p> <p>Inner material of cylinder : Austenitic stainless steel (SS 304L)</p> <p>Outer material of cylinder : Carbon Steel</p> <p>Outlet port dimension for liquid : 1/2 inch and 3/8 inch</p> <p>Outlet port dimension for vapor : 1/2 inch and 3/8 inch</p> <p>Transfer line fitting type : Standard</p> <p>Insulation : Super insulation material or perlite</p> <p>Construction : It should be double walled and vacuum jacketed</p> <p>Max allowable pressure : 24 bar</p> <p>Liquid nitrogen storage pressure : 15 bar minimum</p> <p>Liquid nitrogen set pressure at outlet: 3 bar</p> <p>Design temperature : 77 K to 324 K</p> <p>Outlet temperature of liquid : 77 K</p> <p>Liquid flow rate : 0.1 liter / min to 4 liter /min</p> <p>Static evaporation rate : 0.5 liter/day maximum</p> <p>It must containing following:</p> <p>Safety valve</p> <p>Vent valve</p> <p>Liquid fill & withdrawal Valve</p> <p>Pressurizing valve : (There should be a vaporizer with appropriate pressure regulation for auto pressurization of the tank.)</p> <p>Gas withdrawal valve</p> <p>Bursting disc</p> <p>Level gauge : (Should be provided to see the level of liquid nitrogen inside the Storage Tank)</p>			



<p>Combined pressure regulator & economizer Pressure gauge : (Pressure gauges should be provided to see the pressure inside the LN2 chamber) Evacuation port cum safety device Support Structure : Heavy-duty footing and large diameter with supports. Caster base (wheeled) with temperature resistant handles for easy movement Safety of Vacuum chamber : There should be provision of automatic safety of vacuum chamber through safety valve or some other way in case of sudden pressure rise in the chamber Safety of inner liquid nitrogen chamber : There should be provision of three way Pressure Relief Valves (PRV) Warranty : 2 year minimum</p>			
<p>Tentative tests to be carried out at Vendor site:</p> <ul style="list-style-type: none"> • Liquid Storage capacity - As per specification • Configurations- As per specification • Transfer Line Fittings and Fitting type as per standard available. • Safety of Vacuum chamber - As per specification • Safety of inner liquid nitrogen chamber - As per specification • Pressure gauges - As per specification • Level Indicator - As per specification • Valve - As per specification • Vent Line - As per specification • Filing Lines - As per specification • Pressurization of the tank - As per specification 			

