



राष्ट्रीय औषधीय शिक्षा तथा अनुसंधान संस्थान गुवाहाटी
**NATIONAL INSTITUTE OF PHARMACEUTICAL
EDUCATION AND RESEARCH GUWAHATI**

(Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Govt. of India)
SilaKatamur (Halugurisuk), P.O.: Changsari, Dist: Kamrup, Assam, Pin: 781101.

**Minutes of the Pre Bid Committee Meeting held on
09/03/2021 at 11:00 AM**

Item Description: Liquid Nitrogen Plant

Reference No: NIPER-G/167/EQP/Liquid Nitrogen Plant/2020-21 dated: 25.02. 2021

As per the terms and conditions of tender inquiry, the pre-bid meeting for procurement of Liquid Nitrogen Plant was held on 09 March, 2021 at 11:00 am, in the Dean office NIPER- Guwahati. The Following Amendments has been made in the tender document..Bidders are requested to quote accordingly.

Ammended Specifications of Liquid Nitrogen Plant

1	Production Capacity	At least 20 litres / hour at 1 bar [g]	No Change
2	Purity	99% or above at 1 barg	No Change
3	Storage Vessel working Pressure	5 bar [g]	No Change
4	Start-up Time	Should be \leq 30 minutes	No Change
5	Restart after power failure	Auto-restart after of power resumption with start- up time to full production within 15-30 minutes thereafter under plant cold start up condition.	No Change
6	Storage Capacity	At least 1000 Lit. with level, pressure sensors & display and more than one port for connecting vacuum jacketed delivery/transfer lines. Storage vessel should also be fitted with all standard safety and required accessories.	No Change
7	External Cooling	Cooling system should be able to cool the liquefier even at atmospheric temperature 45 C. In case of water cooling, it should be Integrated Closed Loop water chiller. Other utility like Helium gas feed for cooling, is not accepted.	No Change
8	Space Consumption	The system should be well integrated and the vendor should mention the total space required for the installation of the plant including all accessories. There should be technical drawing of the space utilization.	The system should be well integrated and the vendor should mention the total space required for the installation of the plant including all accessories. There should be technical drawing of the space utilization. Vendor Should provide the technical drawing along with tender documents
9	Preventive Maintenance	Preventive maintenance interval should be at least 6000 hours or more of	No Change

	Interval	operation at full rated capacity	
10	Operation and Control	Should be fully automatic, single-switch, PLC Controlled Operation. Provision for remote monitoring feature as an optional.	No Change

11	Defrosting / Purging	Defrosting / purging interval should be mentioned if required	No Change
12	Nitrogen Gas Separation	The purity of nitrogen gas should be more than 99%.	No Change
13	Nitrogen Liquefaction	Should be on turbine based cold cox technology. Details of liquefaction process should be specified in the technical part of the quotation.	Should be on high COP Thermodynamic cycle or turbine based cold cox technology. Details of liquefaction process should be specified in the technical part of the quotation.
14	Nominal Operating Conditions	Temperature 25-45°C, RH 20-95%, Voltage (3 ph) :415V ±5%, Frequency – 50Hz ±2%.	No Change
15	System Diagnostics	Should be system integrated with visual display.	No Change
16	Noise Level	Should be less than 80 dBA at 1 m distance from the compressor of the machine.	No Change
17	Testing	The system should be rigorously tested at factory or at site in presence of buyer personnel. All accessories should be OEM approved.	No Change
18	Acceptance criteria	After commissioning the supplier should demonstrate <ol style="list-style-type: none"> 1. Specified production rate by increase in liquid level for a specified period of time 2 hours. 2. Noise level of the system to be measured and it should be as specified above [sl no 17]. 	No Change
19	Bidder qualification criteria	The offers submitted by the Bidders meeting the following essential eligibility criteria only will be considered for acceptance. <ol style="list-style-type: none"> a) The bidder should be an Original equipment manufacturer. b) During last 5 years, the bidder should have supplied at least 5 Nos Gaseous / Liquid Nitrogen plants in India in last 5 years. 	The offers submitted by the Bidders meeting the following essential eligibility criteria only will be considered for acceptance. <ol style="list-style-type: none"> a) One bidder one Original equipment manufacturer (OEM). b) During last 5 years, the bidder should have supplied at least 5 Nos Gaseous / Liquid Nitrogen plants in India in last 5 years.

20	Accessories and spare parts	Vendor(s) must provide the tools set and consumables for plant servicing and repairs for 0-8000 hr of at full rated capacity operation; Two sets of complete user manuals and service manuals in English (hard copy and soft copy); liquid nitrogen handling package for personal protection such as cryogenic gloves, goggle, flexible cryogen transfer siphon with handle etc. must be included in the offer; Offer must also include any other equipment required for the proper functioning of the plant; must ensure complete installation and onsite training of the operators.	No Change
21	Warranty Offers	Must be with 365 days on the site warranty. The number of days during the downtime within the warranty period will not be considered.	Must be with 3 years on the site warranty. 2 years AMC after expiry of warranty period. The duration of warranty will be get extended equivalent to the down time period of the instrument during warranty.
22	Technical Service	The Technical service for installation & commissioning should include the following i. Pre-installation Site visit and Plan Layout: ii. Consignment Checking at Site, iii. Physical Installation, iv. Trial run and Parameter testing, v. Training at site for operation and basic maintenance, vi. Commissioning, vii. Handing over and acceptance,	No Change
23	Supply and availability of Spares:	Firm must have capability to support, supply of spares, accessories for a period of 2 years (24 months) from the date of initial operation to avoid any operational problem due to obsolesce or/ any other reasons.	No Change
24	Service Facility and Down-time Call Attendance:	<ol style="list-style-type: none"> 1. Supplier should clearly mention about their service set up in India for prompt service support. 2. Direct service support from the company in India is must. 3. During the warranty period, only factory trained and certified engineers are acceptable to attend the service. 	No Change

25	Pre-dispatch	Firm should arrange the pre-dispatch inspection prior to packing & dispatching of the item. Firm should share the entire detail of the LN2 System with images and schematic diagram before packing for export items.	No Change
26	Plant safety standard	Industrial Safety standard on plant site.	No Change
27	Plant Lay-out and Schematic Diagram	<p>(a) Standard Layout of the LN2 System with dimension must be attached along with the technical bid for reference,</p> <p>(b) Layout of the plant, required power supply and other statutory requirements shall be indicated along with the Technical Bid.</p> <p>(c) Firm should share the schematic diagram along with the Technical Bid.</p>	No Change
28	Pre-Installation Requirement:	Necessary pre-installation advice should be sent immediately after the placement of the order.	No Change
29	Installation, Commissioning	Installation, commissioning and demonstration of performance should be carried out by the supplier. Supplier should provide all materials required for commissioning the equipment including piping, electrical cables if any etc. For all service work the department will provide required lifting and transporting equipment.	No Change
30	Training:	Training for operation of the instrument/ system and basic maintenance of the system should be provided for a group of technical staff (around 3 nos.).	No Change
31	Performance	Satisfactory performance of instrument will be considered by the committee in evaluating the technical bid. The satisfactory performance / appreciation letters from the end user needs to be submitted along with contact details of the user.	No Change

32	Product Catalogue	Firm should submit detailed specification and product catalogue.	No Change
33	Validity of Quotation	Minimum 3 months.	No Change
34	Submission of Bids:	Tender should be submitted in two parts – Technical and Financial	Tender should be submitted in two parts – Technical and Financial PO (last 3 years) of National level reputed organization need to submit along with Financial Bid.
35	Bid evaluation criteria	The overall landed cost of the equipment including cost of erection and commissioning will be considered for arriving L1. Cost of any accessories and AMC will not be considered for arriving L1.	No Change
37	General Instructions	<ol style="list-style-type: none"> 1. On placement of order, the supplier shall make all the detailed design, calculations and fabrication drawings, get all the necessary clarification and submit it for approval from the purchaser before commencing manufacture. 2. Supplier should produce test certificates for all pressure vessels material including its composition/properties. All pressure vessels shall be designed and fabricated as per ASME section VIII Div 1 code. 3. Supplier shall prepare inspection reports of all the components and sub assemblies at appropriate stages during fabrication and submit to purchaser as and when required during manufacturing. 4. Hard copies of all mechanical/electrical/electronic circuit drawings shall be supplied along with the equipment. A soft copy shall also be supplied in CD form/pen drive. 	No Change

The payment terms and other conditions remain same as mentioned in the tender document.

The Last date for the submission of tender document is 18.03.2021.

Sd/

Stores and Purchase officer

Sd/

Registrar Incharge