



राष्ट्रीय प्रौद्योगिकी संस्थान नागालैंड
NATIONAL INSTITUTE OF TECHNOLOGY NAGALAND
(An Institute of National Importance under Ministry of HRD, Govt of India)
Chumukedima, Dimapur
Nagaland - 797 103

E-mail: registrar@nitnagaland.ac.in
Ph: +91-3862-241821

Tender No. 0219/NIT-N/S&H /2017/08-02

Dated: 25-08-2017

NOTICE INVITING QUOTATION (NIQ)

Sealed Quotations are invited from the reputed Manufacturers / Dealers / Registered Suppliers for Supply and installation of Equipments for Physics Laboratorie whose detailed specifications are given in Annexure I & II, National Institute of Technology Nagaland, Chumukedima, Dimapur, Nagaland – 797 103.

Package-I: (Quantity-1 No.)

Computer Workstation (As per the Detailed Specifications given in Annexure I

Package-II: (Quantity- Each 1 No.)

Physics Laboratory Equipments (As per the Detailed Specifications given in Annexure II)

- A. Centrifuge
- B. Vortex
- C. Probe Sonicator
- D. Tube Furnace
- E. Oven

In this connection, you are requested to furnish the lowest quotation for Supply and installation of Equipments for Physics Laboratorie. Sealed quotations should reach to the office of **The Registrar, NIT Nagaland, Chumukedima, Dimapur, Nagaland 797 103** on or before 11th September 2017, 2:00 p.m. and it will be opened on same day at 3:00 p.m. in the Administrative Building, NIT Nagaland. Quotation received after the due date will not be considered.

The Terms and Conditions are detailed below:

1. The bidder shall be required to deposit the earnest money (EMD) for an amount of Rs. 20,000/- (Rupees Twenty Thousand only), which is refundable and a tender fee for an amount of Rs. 3,000/- (Rupees Three Thousand only), which is non-refundable by way of demand draft only. The demand draft shall be drawn in favour of “Director, NIT Nagaland” payable at Chumukedima, Dimapur.
2. The earnest money deposit of the successful bidder shall be refunded after the completion of contract / order. For unsuccessful bidder(s) it will be refunded after award of the contract / order. Bid without demand drafts of EMD and Tender fee shall be liable for rejection.
3. The specifications and rates offered should be sent only in sealed covers.
4. The rates should be quoted in INR including all taxes and Freight charges at FOR destination at NIT Nagaland, Chumukedima, Dimapur – 797 103 on Door Delivery Basis.
5. The transportation charges if any shall be notified.
6. The PAN and TIN numbers of company should be notified.
7. The item should be delivered within 2 weeks of time from the date of issue of the purchase order.
8. The safe delivery shall be the sole responsibility of the supplier.
9. The Institute reserves the right to accept in part or in full any quotation(s) or reject any or more quotation(s) without assigning any reason or to cancel the tendering process and reject all quotation(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).
10. The vendor can submit separate quotations for each Package.

Payment Terms

The payment of 100 percent of the order value shall be released after receipt of the items in good condition at the institute.

REGISTRAR

25/08/2017

Computer Workstation

Technical Specification for Server, Qty 1		
Sl. No.	Feature	Specification
1	Form Factor	1U Rack
2	Processors	1x Intel Xeon E5-2683V4 16 core 40 MB Cache, 2.1GHz, 9.6 GT/s QPI (85W)
3	Chipset	Intel C610
4	Memory	32 GB = 2 x 16GB RDIMM, 2400MT/s, Dual Rank, x8 Data Width expandability upto 356 GB
5	Hard Drive	4 x 1TB 7.2K RPM Near-Line SAS 2.5in Hot-plug Hard Drive
6	RAID	RAID, 0,1,5
7	I/O slots	2 x PCIe 3.0
8	Storage controller	PERC H330 RAID Controller, Minicard
9	Drive bays	SAS, SATA, nearline SAS, SSD Multiple R430 chassis available: • 10 x 2.5” hot-plug drives • 8 x 2.5” hot-plug drives • 4 x 3.5” hot-plug drives • 4 x 3.5” cabled drives
10	Embedded NIC	4 x 1GbE LOMAdd-in network interface cards (NICs) and host bus adapters (HBAs)
11	Power supplies	Dual, Hot-plug, Redundant Power Supply (1+1), 550W
12	Remote management	<p>An integrated Remote Access Controller (iDRAC) with Lifecycle Controller is embedded in the server</p> <p>It provides functionality that helps you deploy, update, monitor and maintain servers with or without a systems management software agent. This agent-free operation means that with Open Manage technology, your new server is ready to deploy a new OS or accept new settings with no extra software to install</p> <p>It enables streamlined local and remote server management, and reduces or eliminates the need for administrators to physically visit the server — even if the server is not operational.</p>
		<p>As an integral part of iDRAC, the Lifecycle Controller simplifies server lifecycle management tasks like provisioning, deployment, servicing, user customization, patching and updating. It’s a collection of out-of-band automation services, embedded pre-OS applications, and remote interfaces that give you deployment, update, and maintenance capabilities through managed, persistent storage. This means you can reduce or eliminate dependence on media-based systems management tools and utilities.</p>

13	Systems management	<p>Available version of Intelligent Platform Management Interface is designed to extend customers' IT capabilities and further improve remote management by introducing enhanced security, remote access, and configuration capabilities</p> <p>New authentication and encryption algorithms enhance security for remote management access</p> <p>Serial over LAN supports remote interaction with serial-based applications, BIOS, and operating system</p> <p>SMBus system interface provides low-pin count connection for low-cost management controllers</p> <p>Firmware Firewall supports partitioning and protection of management between blades in modular system implementations</p>
14	Warranty	3Yr Pro Support: Next Business Day Service (On site)
15	Bidder Status	Bidder should be ISO Certificate company. Bidder should have Service Centre from the past 10 years in North East. Bidder should have executed at least three similar order in any reputed Institute or govt organisation in the last three financial years.

Physics laboratory Components

A. Centrifuge

- i) Low volume, high speed
- ii) Maximum speed – 16000 RPM (with suitable rotor and variable “g”)
- iii) Compatible motor which can generate the above mentioned speed without generating heat.
- iv) Variable speed and timer (spinning time) which will be specified by the user.
- v) Digital display (LED) for accurate speed, spinning time and temperature. Speed and time should be changed by the user according to research requirement.
- vi) Inner chamber should be quoted with non-reacting, safe material like carbon fiber etc. so that bio-safety is maintained.
- vii) Capacity of tubes to be fitted – 0.5 ml – 2 ml (mandatory)
- viii) Falling (of liquid sample) prevention mechanism should be present in the chamber/doors
- ix) Should be designed properly to handle small volume DNA/RNA/protein/ nano particle/drug samples (sensitive). Bio-safety and bio-compatibility should be maintained all through out.

B. Vortex

- i) With speed controller and display
- ii) Automatic and manual both modes should be operative
- iii) Flexible (detachable) one hand, one cup, hard and soft (foam) top, hand insert, micro tube insert (capacity – 5 to 6 no tubes - 0.5 ml – 2 ml) attachments should be present.
- iv) Should be designed properly to handle small volume DNA/RNA/protein/nano particle/drug samples (sensitive). Bio-safety and bio-compatibility should be maintained all through out.

C. Probe Sonicator

- i) Operating voltage - 230V - 50 Hz
- ii) Power Output – 1000 Watts (flexible)
- iii) Mean Operating Frequency - 23 +/- 3 KHz
- iv) Generator Unit Size (mm) - 360x360x260 to 450x450x250
- v) Sonicator Tip - S.S.316 Titanium

- vi) Sonicator Probe Length - 115 mm or higher
- vii) Sonicator Tip Diameter (mm) – 2, 4, 6, 12,15,20,24,28 (all required)
- viii) Process Sample volume - 0.5 to 50ml
- ix) Micro Controller Based Digital Timer with different Program facility/PLC with touch Screen (color)
- x) Sound Abating Chamber
- xi) Ultrasonic Probe and Sample Temperature indicator / Controller
- xii) Should be designed properly to handle small volume DNA/RNA/ protein/nano particle/drug samples (sensitive). Bio-safety and biocompatibility should be maintained all through out.

D. Tube Furnace

Temperature Range	Ambient to 1200°C with Programmable Controller
Outer dimensions (Width × Depth × Height)	350×345×495 mm ³
Tube Inner length	20 mm
Heated length	250 mm
Tube length	500 mm
Power	1 kW
Voltage	230 V
Accessories	<ul style="list-style-type: none"> a. Special accessories for operation under inert gas or vacuum. b. Gas-tight, water-cooled flanges for operation under inert gas or vacuum. c. Automatic gassing systems for non-flammable gases or for vacuum operation. d. Argon cylinder.

E. Oven

Temperature Range	Ambient to 250°C, fitted with Microprocessor based PID electronic digital temperature controller along air circulating fan, perforated shelves etc.
Chamber Size (Width × Depth × Height)	350×350×350 mm ³ .
Inner Chamber	Stainless Steel.
Voltage	220 Volts