

Purchase of EQUIPMENTS under DST FIST Level - O

Guru Nanak Institute of Technology
157/F, Nilgunj Rd, Panihati
Kolkata - 700114

TENDER NOTICE

Ref. No.- GNIT/FIST//PURCHASE/2020

DATE:- 14/02/2020

Sealed Quotations are invited from authorized Vendor/Suppliers/Manufacturer for the following Instruments and goods for the **Supply of Equipments under DST FIST Level –0**. Sealed Quotations must reach to the Principal, Guru Nanak Institute of Technology (Autonomous),157/F, Nilgunj Road, Panihati, Sodepur, Kolkata, Pin-700114, on or before 30.03.2020 at 4-00 p.m. Price should be inclusive of all taxes.

The detail specification of each equipment is mentioned below. For further details visit the college Website: www.gnit.ac.in

Specification of Instruments for FIST Level 0 2018-2019

Sl. No.	Item	Specification
1	DI Water Unit	Output (Tank is empty. 25°C): 5 liter/ hour Flow rate (Tank is Full): 1.8 liter / min (with pressure tank) UP water Resistivity: 18 .2MΩ.cm Heavy metal Ion: <0.1ppb TOC: <20ppb Microbe (Bacteria): <1 CFU / ml Particles(>0.2 pm): <1 /ml
2	Fume Hood	Working area dimension : 3'-6" W x 2' D x 3' H. Working Table height from floor level : 30". Total Height ; approx 8'-6".
3	Spin Coater	Oil-free Vacuum Pump, Substrate diameter 1"=2" with speed 500-8000 r.p.m.
4	Digital Multimeter Table Top	V DC Ranges : 100 mV to 1000 V Resolution : 100 nV Accuracy :0.0024 + 0.0005 A DC Ranges : 100 μA to 10 A Resolution : 100 pA Accuracy : 0.050 + 0.005 A AC Ranges : 100 mA to 10 A Resolution : 100 pA Accuracy : 0.10 + 0.04/Frequency : 3 Hz to 10 kHz Freq/Period Ranges : 3 Hz to 1 MHz Resolution : 1 μHz Accuracy : 0.01 %/

		Capacitance Ranges : 1 nF to 0.1 F Resolution : 1 pF Accuracy : 1 %
5	Hot plate With Magnetic Stirrer	Magnetic Stirrer complete with Hot Plate & Digital speed indicator
6	Annealing Furnace	Maximum Temperature 1000°C
7	Vacuum Evaporation Unit	High Vacuum Pumping System Vacuum Measuring Gauges Substrate Heater with Controller Digital Thickness Monitor Water Chiller
8	FT/IR-4600 LE FT/IR Spectrometer with Spectra Manager Software	Michelson's Interferometer 45deg, corner cube alignment free with mechanical bearing. Wave Number Range : 7800-350cm ⁻¹ Expandable Wave Number Range : 15000-2200, 5000-220 Resolution : 0.7cm ⁻¹ S/N Ratio : 25000:1 Detector : DLATGS (Option: MCT, Si, InSb, : InGaAs) Beam Splitter : Ge/KBr (Option: Si/CaF ₂ ,Ge/CsI)
9	Ultra sonicator (Bath)	Capacity : 2.5 ltr Tank Inner Size : 245mm x 135mm x100mm
10	Ultra Centrifuge	Centrifuge with one rotor 15ML
11	Semiconductor Parametric analyzer	Impedance Analysis 20 Hz to 10 MHz
12	Autoclave (Table Top)	AUTOCLAVE (VERTICAL) pressure of 15 psi to 20psi (adjustable) with Pressure Cut out Switch, Boiler Size:10" Dia x 18" Load 1.5KW
13	Fluorescence Spectrophotometer (PL Spectra)	Light source , Wavelength range : Em : Zero order, 200 - 750 nm
14	CVD system	Maximum Design Temp 1200°C Cont. Operating temperature 1100°C for long duration Temperature accuracy +/- 1°C Heating rate 10°C/min POWER RATING KW rating 2.6 Kw

		Voltage Rating 170-240 V AC, 50 Hz Current Rating 18 A @ 220 V
15	Dessicator with vacuum pump	ABROSROONS IL" DESICCATOR, 250 mm complete with PTFE stick with "TARSON" ROCKYVAC VACUUM PUMP Rocky VAC-300
16	Gas Measurement Set Up	Automatic gas control set up including 2 nos. Mass flow sensor and controller mixing chamber gas regulator, gas cylinder, SS pipeline etc.
17	Hall measurement set up with Computer Console	(i) (a) Hall Probe (Ge Crystal - n type) (b) Hall Probe (Ge Crystal - p type) (ii) Hall Probe Multipurpose Stand, HPS – 2pcs (iii) Hall Effect Set-Up, Model DHE-21C (iv) Constant Current Power Supply, DPS-50C (v) Digital Gauss meter, DGM-202C (vi) Computer Aided Measurement Module

TERMS AND CONDITIONS

I. General Information:

- a) Last date and time of receipt of the Tenders: March 30, 2020 4.00 PM
- b) Date & Time of opening of the Tender: March 31, 2020 3.00 PM
- c) Quoting merely the lowest price does not confer any right to any bidder for award of supply order. The College Purchase Committee, reserves the right to select the quotation of any bid under the grounds of specification compliance, technologically, advanced quality, proven performance track record, brand reputation, service backup support & training, offer of additional / special features, Compatibility with the existing System, etc.
- d) The quotation must be submitted along with the stipulated tender document in proper format within the sealed cover to:

Dr. Sunipa Roy
Principal Investigator
DST FIST Level –0
Guru Nanak Institute of Technology,
157/F, Nilgunj Road, Panihati
Sodepur, Kolkata-700114

The name and address of the bidder should also be mentioned at the "From address" space.

g) Tenders will not be accepted through fax / e-mail.

II. Common Conditions (Import or Indigenous)

1. Procurement of the Tender Document:

The Tender document can be downloaded from the Institute website www.gnit.ac.in or procured from the 'Office of the Institute', Guru Nanak Institute of Technology.

2. Price Schedule:

The rates should be quoted for a single unit and also for the total quantity required by the Institute. The taxes / duties / discounts, if applicable, are to be explicitly and separately shown in the bid.

The quotation should include the Date of Delivery, installation, warranty period etc. at the specified place of Guru Nanak Institute of Technology. The prices quoted shall remain fixed until the product is supplied to the Institute.

3. The authority reserves the right to cancel the order/ refuse the item/ articles, in case any variation is found from the original terms and conditions.

Issuing Date:

14-02-2020

Sd/-

Guru Nanak Institute of Technology