GAUHATI UNIVERSITY
INSTITUTE OF SCIENCE AND TECHNOLOGY
Gopinath Bordoloi Nagar, Guwahati-781014
Telephone No.: 9954028440
www.gauhati.ac.in

NO.: GUIST/ DBT-Food/2017/01 Date: May 15, 2017

Notice Inviting Quotations(NIQ) Notification

Ref. No. GUIST/ DBT-Food/2017/01 Date: May 15, 2017

It is hereby noticed for information to all concerned that tender notice floated vide no. GUIST/ DBT-Food/2016-01; dated December 24, 2016 for supply, installation, fixing up of Equipment, Lab Accessories etc. under a DBT sponsored project on "Food Science" have been called again for some items due to non availability of enough bidders. Moreover three more items that are to be imported are mentioned in this notice as they were not mentioned in the previous advertisement.

Therefore, fresh sealed quotations are called from reputed vendors, dealers and suppliers for attached list of items. Those who have submitted tenders/quotations earlier against NIQ reference no. GUIST/ DBT-Food/2016-01; dated December 24, 2016, need not participate again for the earlier quoted items. However, they can participate for the imported items once again and if any bidder had participated earlier for the presently mentioned imported items, they can collect back the EMD and also the tender fee (applicable to vendors who had earlier participated only in the items presently listed as imported or if such a vendor wants to participate in the imported items mentioned in the present NIQ, need not deposit tender fee again.)

Technical Bid is to be submitted in an envelope (Envelope-I) **super scribing clearly as Technical Bid and** Financial Bid is to be submitted separately in a separate envelope (Envelope-II) **super scribing clearly as Financial Bid.** Both the Technical Bid and Financial Bid in two different envelope (Envelope-I & Envelope-II), must be put in to **One Single Envelope super scribing Quotation for supply of "Equipments for Food Science".** The last date of submitting the quotations to the undersigned is 30.05.2017 upto 3 PM. Opening will be on 01.06.2017 at 11AM. The sealed quotations are to be submitted along with the earnest money of 2% of total quoted value in the form of DD in favour of The Registrar, Gauhati University, in the GUIST office on all working days till the last date and time, during office hours**.** Interested agency may collect the detail NIQ Document from the office of the GU IST, on payment of a fee of Rs. 1000/- in the form of DD in favour of The Registrar, Gauhati University.

Quoted price should include AMC for five years (if any)

Sd/-
Prof. Manab Deka, Director, GUIST

Copy To:

1. Treasurer, GU for information
2. Jt Registrar, GU, for publishing this notice in the GU website
3. M/s Gulf Adv. Agency, Punbazar, for publishing the notice in the Assam Tribune in Classified Tender Section in its immediate next issue, and submit the bill for payment
4. Notice Boards
5. Office Files

Terms and conditions:

1. Only vendors who collect the detail NIQ paying the prescribed fee of Rs. 1000/- may submit the Quotations.
2. The agency must be OEM/Dealer/Service Integrator.
3. If the agency is not OEM, OEM authorization to quote against this NIQ must be submitted.
4. **Only vendors who have a local office or service centre in Assam and preferably in Guwahati can participate. Documentary proof of functioning of the office or service center for last 3(three) years must be produced and the same will be verified.**
5. **Upon getting the purchase order the supplier must comply with the specification. Any deviation from the specification would result in cancellation of the purchase order and the cost involved in carrying back the goods would be borne by the concerned firm. In such a case the EMD deposited will be forfeited.**
6. EMD against the total quoted value (Not on Unit Price) must be deposited through DD in favour of The Registrar, Gauhati University @ 2% of the total value (Not the unit price).
7. All tax clearance certificates and Tax Registration certificates applicable in Assam must be attached.
8. The Bidder's audited annual financial statements (balance sheet, Income statement) for the last three years shall be provided. Annual turnover must be of atleast 3 times of the Quoted Value.
9. Bidder must have previous experience of successfully executing minimum of two (2) similar nature contracts within the last two years, each of value not less than 70% of the current quoted value.
10. The Bidder must submit certified copies of supply orders that substantiate fulfilment of the above criteria and information.
11. Bidder must have executed similar orders in Educational Organisations/Govt./Semi Govt organizations. Certificate must be produced.
12. A signed copy of the Detail NIQ must be submitted along with the technical bid.
13. The Quotation must be submitted in two envelope system: A. Technical Bid: Detail specifications, all relevant documents along with the technicals of the submissions. B. The price bid against the detail specifications. Softcopies in CD must be put inside the envelopes.
14. Price bid will be considered only after qualifying in the technical bid system
15. All specifications are minimum.
16. Date of opening of quotation is 01.06.2017 at 11 AM. Representatives of the agencies may attend the Quotation Opening Meeting
17. The GUIST reserves the right to modify/cancel the requirements.
18. Non-Conformity of the any of the terms and conditions will disqualify the Agency and price bid will not be considered.
19. All terms and conditions will be as per Gauhati University rules, regulations and decisions.

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Detail specifications and requirements

Category I. Food Science Lab

1) Microbiological Blender

Specification

- Lab blender adapted to all kinds of applications and with optimal bacterial extraction
- All stainless steel
- Silent and robust
- Fixed blending speed (8 strokes/sec)
- Variable time (30, 60, 90, 120, 180, 210 secs. or ∞)
- Useful Volume: 50-400 ml
- Adjustable Paddles (Patented)
- Easy cleaning: door opens at 270^0 C
- Compact & ergonomic
- Size (w x d x h): 26 x 39 x 29 cm
- Door weight: 1050 g
- Weight: 16.5 Kg
- Power: 110/220 V ~50-60 Hz
- Security Drip Tray (in option)
- In compliance with: ISO 7218
- Designed and made in France
- Manufactured under: ISO 9001 V2008, CE, WEEE 2002/96/EC, RoHS 2002/95/EC standards
- 3 year Guarantee (after registration)
- Window Door Life-Time Guarantee
- Shock Absorbers Life-Time Guarantee
- Life-time service

DELIVERY WITH

Power cord

- User manual
- Quick user guide
- Free sample pack of bags

2. Rheometer

Features: 7inch Full Colour Touch Screen display -2600 selectable speeds -Analyze characteristics such as yield stress, flow curves, levelling and recovery -Built-in math models for data analysis in stand-alone mode -Complete computer control with RheocalcT Software -Convenient Bubble Level -Download custom test programs with PG Flash Software

Specifications:

- Min. Viscosity Range: 15cps
- Max. Viscosity Range: 6M cps
- Speeds: 0.1-250RPM
- Speed Increments: 2.6K
- Accuracy: +/-1.0% of range
- Repeatability: +/-0.2%
- Min. Viscosity Range: 15cps
- Max. Viscosity Range: 6M cps
- Speeds: 0.1-250RPM
- Speed Increments: 2.6K
- Accuracy: +/-1.0% of range
- Repeatability: +/-0.2%

3) Ultra High Water Purification System

Specification

Pre Filter to counter the Particulate Load

One Stage Purification 5 Micron or 1 Micron Polypropylene graded density wrapped type depth filter with Low Voltage 20 Watts powered DC Pump. Additional Iron removal filter 100 Liter per Hour should be included which can take care of Iron upto 4 ppm.

Analytical Grade Water System(Type II)

Feed water Specifications:

- Tap water nature: Potable (as per WHO,EC, EPA and ISO)
- Conductivity: < 2000 µS/cm @ 25°C
- Temperature: 2 to 35 °C pH: 4 to 10
- Fouling Index: upto 12 Free Chlorine: upto 3 ppm TOC: upto 2000 ppb CO2: < 30 ppm
- Hardness: upto 300 ppm

Product Water should meet or exceed Type II water quality corresponding to analytical – grade water as defined by ASTM, CAP, NCCLS and ISO 3696/BS 3997 with the following Product Water Technical Specifications:

Resitivity 10-15 Megh Ohms TOC Levels less than 30 ppb Flow Rate 3 Ltrs/Hr

Bacteria count < 0.1 cfu/ml Automatic EDI – With Carbon Beads at cathode and which doesn't required pre softening.

System should have facility to control remotely with the help of software interface. The System should have ideally a three stage Purification system:

Stage 1: Pre-treatment Cartridge with anti scaling compounds, activated carbon filter and 0.5 Micron Particulate filter to obtain Chlorine and Colloid free water, and compatible with Feed Water Quality of SDI levels up to 12 and total Chlorine level of 3 ppm and conductivity of 2000 micro Siemens/cm. Should be fitted with a easy lock and release mechanism for future maintenance. The pre-treatment pack contains silver-impregnated activated carbon, which prevents the proliferation of bacteria present in tap water; anti-scaling compounds; and a pre-filter to efficiently protect the RO membrane against oxidation, scaling and plugging.

The cartridge should have an RFID tag for traceability.

Stage 2: The system should have A high Flux thin RO Membrane with 200 Daltons cutoff. The system should compulsorily have conductivity cells before and after the RO Membrane to 95-99 % rejection of Inorganic Ions 99% rejection of all Dissolved organic substances.

RO cartridge should have high recovery loop to reduce the wastage of feed water to drain.

Stage 3: The System should have the Electro De-ionization module (EDI Module), with mixed Bed Ion Exchange Resin along with Carbon Beads at cathode to avoid scaling so that the Regeneration of the Resins happens on application of Electric current.

To reduce the consumable replacement, the water system will include an automatic regenerative EDI (Electro DeIonization) module that does not require softening pre-treatment

The system should have Temperature Compensation of Product water temperature of max +/- 0.1 degree irrespective of temperature changes. And system should have co axial resistivity meter with 0.01 per cm coefficient.

Automatic self-maintenance functions (i.e., flush mode, rinsing mode, sanitization cycle) keep the system's reverse osmosis membrane in top operating condition, and ensure optimal water quality. System sanitization is recommended approximately four times a year, and takes just a few minutes to perform.

The system should have the following:

In built display to ensure the system parameters are displayed all the times

Auto diagnostic facility with Error NO and Alarm Code and real time clock to log reports with date and time to ensure complete traceability.
Automatic Cleaning, Rising, and Flush mode.

The screen should change colour to indicate maintenance or poor quality water delivery.

Specifications for Storage Reservoir

Blow molded conical bottom Polypropylene reservoir with 30 Ltrs Capacity with sensor rod float switch and single 3 stage vent filter consisting of soda lime, activated carbon and 0.22 micron hydrophobic membrane and have the option of using Automatic sanitization Module.

TECHNICAL SPECIFICATION OF TYPE 1 WATER PURIFICATION SYSTEM

Type I water should be produced from two stage mixed bed ion exchange and activated carbon cartridge, and conductivity sensor, and an option for final filter in dispensing arm.

STAGE 1.

Type II water should pass through feed water specific cartridge for removal of trace contaminants.

Application Specific cartridges to remove ionic and organic contaminants to trace levels

To prevent deterioration of water quality during periods of non-use, the ultrapure water system will be able to recirculate water to maintain high water quality.

Water production unit that can be placed either on the bench , under the bench or on the wall with LCD monitor displaying : resistivity, level of water in reservoir, volume dispensed and consumables replacement and service clearly written on the display alarms, printing etc.

Dispensing arm:

1. Adjustable height and rotating arm-adjustable to any glassware.

Ultrapure (Type I) water:

- Ultrapure Water (Type 1) Flow Rate (L/min)….. 1.5 -2 L/min
- Ultrapure Water Resistivity (MΩ·cm at 25°C)……18.2
- Microorganisms (cfu/mL)……...<0.1
- Particulates < 0.22 µm (/ mL)……...< 1
- Pyrogen Levels (EU/mL) ……..<0.001
- RNase Level (ng/mL) …….< 0.01
- DNase Level (pg/µL) ……..< 4
- TOC (ppb) …….< 5
- VOC filter……To remove volatile organic compound
- EDS Polisher…….Water for endocrine disrupters experiments
- Compatible with RS-232 Port

Inbuilt software provides data management, remote access to dashboard, and long-term archiving capabilities. For Title 21 CFR Part 11 compliance, Software provides additional features such as e-signature, audit trail, and account management for full system control.Should have facility to control remotely with the help of software interface.

4) Deep Freezer (Imported)

Specifications

- Capacity: 340 L
- External Dimension: 24’ x 25’ x 73’
- Baskets/ Shelves Qty: 7 Nos.
- No. of Door/Type: I/Solid
- Energy Consumption-Unit/24Hrs : 0.83
- Temp. range: -16^0C- -24^0C
- Castors: Yes

5) Ultra Sonicator ((Imported)

Specification

Sample volumes from 0.1 to 1000ml.
Probe made of Titanium, tip diameter 3 mm, approx length 100 mm, male thread M8 x 1, for samples from 5 ml up to 200 ml.
Stand- mounted operation 200 watts, ultrasonic frequency 24 kHz, Automatic frequency tuning system, Amplitude should be adjustable from 20 to 100%.
Dry running should be protected, with 9 – pin DSUB interface.
In portable case for use with stand ST1- 16 or sound protection box, with mounting tools. Ip40 grade, Titanium horn with female thread MB x 1 dimensions (L x W x H): 290mm x 210mm x100 mm

6) Ultrasonic Cleaner

Specification:

Should be ideal for cleaning a wide range of laboratory instruments as well as in other healthcare, medical and industrial applications. The ultrasonic activity generated must allow rapid and effective cleaning and processing of a wide range of instruments and components. The technology should provide more homogeneous ultrasonic activity throughout the tank, reducing dead spots and standing waves. Should be accurate in process control of time, temperature, ultrasonic activity, degas and power. Stainless steel basket – should be designed specifically to generate maximum ultrasonic activity, prevent items resting in the tank and prevent operators coming into contact with chemical solutions. Should be with ergonomic ABS plastic lid to reduce noise volume and to minimise potential of aerosol escape

• Working capacity (litres) : 2.5
• Max capacity (litres) : 2.75
• Ultrasonic Power : 35 W
• Per litre/W : 14 W
• Operating frequency LEAP : 44 kHz
• Heated : Yes
• Maximum heating capacity : ambient + 5 to 70°C
• Heater power : 150 W
• Timer : 0 -15 mins
• Drain outlet BSP valve : N/A
• Supply voltage : 230 V

7) Vortex Shaker

Specification:

- Speed : 100- 3200rpm.
- Operation : Touch/Continuous
- Working condition : 4 to 60°C ambient.
- Body : MS with powder coated.
- Input Voltage : 230V, 50Hz. A.C. Supply

8) Butyro Refractometer (oil and Sugar)

Specification:

Digital Butyro Refractometer ,Calibration with Standard liquid, Large, Easy to read display of both Butyro & RI scale.
Range: Butyro 30 to 90.0, RI 1.4450 to 1.4850 (Converted at 40^0 C)
Minimum Indication: Butyro 0.1 RI 0.0001.
Accuracy: Butyro ± 0.5 (at 40^0C), RI ± 0.0003 (at 40^0C).

9) Polarimeter

Specification:

Maximum Length of tubes which this model can take is 400mm; smaller tubes can also be used. The tubes supplied have a bubble trap. Polaroid Sheets used for polarishing the incident light. Glass circular scale finely marked in angular degrees and also in ISS degrees. The range on ISS Scale is from- 30^0 to 130^0 The Scale is properly illuminated to facilitate reading. Permanent focus. Once the dividing line is focused for the eye. The focus is not disturbed by inserting tubes containing solutions, regardless of the nature of solution or of the length of the tube. Permanent good definition even with difficult liquids. Rotating half shadow Effect/ Triple Shadow effect Provision for attaching lamp to the instrument thus keeping alignment correct at all times.

10) Low Temperature/ Humidity Incubator (Imported)

Specification:

Size: 455x410x610mm 4 CU ft., Capacity: 112L, Tepm. Controlled by Digital Temperature Controller Inner, Stainless steel outer body M.S. Duly powder coated, Temp. Range: 5-50 0C. CFC Free Compressor. Full view inner glass door. Lock & Key Arrangement.

Caster wheel mounted cabinet. The inner chamber should be properly insulated with special grad, PUF to prevent thermal losses. Air Circulating Fan for Uniform temperature.

11) Cryostat

Specification:

The machine should utilize running tap water and should convert it in the form of Ice flaks continuously. Compact, self contained unit, covering less floor area & easily instable.
Capacity: 65-70 Kg Per day, Storage Capacity: Approx. 30kg

12) Food Texture Analyzer

Specification:

Load Range : 0-10kg, Load Resolution: 0.5 For 4.5k & 1.0 For 10k In 1g Increments, Load Accuracy: Better Then ± 0.5% Of Full Scale, Load Repeatability: Better Then 0.5 % Of Full Scale, Position Range :0-100mm, Position Accuracy: 0.1mm, Position Setting Resolution : 0.01mm, Position Measuring Resolution : 0.1mm±, Test Speed Range : 0.01-10 Mm/S In Increment Of 0.01 Mm/S, Test Speed Accuracy: Better Than 0.1% Of Full Scale,

Speed Accuracy: Better Than ± 0.1% Of Set Point, Test Modes: Single, Hold, Repeat/Tpa,Cycle, Compression, Tension, Data Output Options: Usb Port, Rs232 Compatible Serial Port. Test Speed Accuracy: Better Than 0.1% Of Full 0.1% of Set Point, Test Modes: Single , DataOutput Options: Data Acquistion: 26 Data Sets Per Second, Protection: Load Cell Overload Protected By Electronic Stop In Both, Direction And By Mechanial Stop In Compression., Approvals: Ce Marked., Security: Software Password Different Levels Of User, Protection Is Required For Excessive Dust., Operation Temperature: 5oc To 35oc, Power Supply: 230 V Ac 50hz, Ct3-Weight: 4.5kg /10 Kg.

Texture Analyser Software (P/N-Ta-Ct-Pro-Ay)

Probe Kit: General Probe Kit, Cylindrical (Bs Std); Ta5; 60mm Wide Knife Edge Ta7; 1.0mm Dia Needle Ta9;12.7mm Cylindrical, (Aacc Std) Ta10; 25.4 Mm Cylindrical, (A0ac Std) Ta11/1000, 45 Deg Cone Ta15/1000; 30 Deg Cone Ta 17; 12.7mm Ball Ta-18; 50.8mm, Cylindrical Ta25/1000; 0.33 Mm Cutting Wire, Ta 26; 2mm Rod Ta39; 38.1 Mm Cylinder Ta4/1000, 6mm Cylindrical Ta41; 25.4mm Ball Ta 43; 4mm Cylinder Ta 44 And Ta-Pcc. Three Point Bend Assembly, Ta-Mp-Mesh Probe

ANNEXURE-I

OFFICE OF THE DIRECTOR, GUIST: GUWAHATI- 14

TECHNICAL BID (FOR ENVELOP I)

I. General Particulars:

The Bidder should provide the following particulars along with relevant supporting documents:

1. Name of the firm :……
2. Status of the firm (please tick) Proprietorship/ Partnership/ Co-operative/Company

3. Name of the Proprietor/Partner/Managing Director (as the case may be)
4. Mailing address: ……

5. Firm Registration No……VAT No……TIN No……...
6. (i) Tel. No…… (ii) Mobile No…… (iii)Fax No…….

7. E-mail address……...

8. Name and designation of the person authorized to make commitments to the Gauhati University

…….
…….

9. Year of establishment of the Organization……
10. Description of business and business background (on firm's letter head with seal).
11. Client profile…. (On firms' letter head with seal).
12. Address of the firm's office/ establishment in Guwahati/ Assam
13. Details of similar work of Govt./ Semi Govt./ Autonomous/ Local bodies / Universities/ other institutions during last two years (on firm's letter head with seal)
13. Turnover details for past two years, please enclose Profit & Loss A/c and Balance Sheets duly audited by Chartered Accountant. (Attach copies of Work Order and satisfactory

completion of work)

14. Details of Bank Account No.
    (i)Name of the Bank…….
    (ii)Branch Code…….
    (iii) IFSC Code……..
    (iv) MICR Code……

15. Details of Tender Processing fee (non refundable)

    (i) Amount…….
    (ii) D. D. No……..Date…….Bank…….

Verification

1. We confirm that we shall abide by all the terms and conditions contained in the application for pre-qualification.
2. All the details mentioned above are true and correct and if there are misrepresentations of facts on any matter at any stage, competent Authority of the Gauhati University has the right to reject the proposal and disqualify us from the process.
3. We hereby acknowledge and unconditionally accept that Gauhati University can at its absolute discretion apply whatever criteria, if deems appropriate for short listing of bidders.
4. We also confirm that we have noted the contents of the enclosed documents forming part of it and have ensured that there is no deviation in filling our offer in response to the tender. The Gauhati University shall have the option to disqualify us in case of any such deviations.
5. After receipt of purchase order and upon supply of the item, if Gauhati University detects deviation of any specifications of the supplied items, we understand that Gauhati University has the right to cancel the Purchase order. We agree to take back the supplied item(s) at our own cost.
6. We have enclosed all the relevant documents as mentioned above.

Signature & Seal of Bidder

ANNEXURE-II

FINANCIAL BID (FOR ENVELOPE-II)

Rates must be shown in following order:

Sl No	Item Specification	Unit Price	Tax applicable	Quantity	Total Price
			Total Price w/o Tax		
			Tax:		
			Total Price with Tax		

Sd/-
(Manab Deka)