



GHANI KHAN CHOUDHURY INSTITUTE OF ENGINEERING AND TECHNOLOGY
(A CFTI, Estd. by Ministry of HRD, Govt. of India)
P.O. Narayanpur, Dist. Malda, 732141, West Bengal, India

**Subject: Tender Enquiry for Supply, Installation, Testing and Commissioning of Lab equipment for the
Department of Food Technology**

e-TENDER NOTICE

1. Ghani Khan Choudhury Institute of Engineering and Technology (GKCIET) invites online Tenders through CPP Portal <https://eprocure.gov.in/eprocure/app> from reputed Manufacturers/ Authorized Dealers /Bidders for procurement different item (please see BoQ for items details).
2. All interested vendors are requested to send their quotation in Two Bid System for supply of the above item as per detailed Technical Specification, General Terms and Conditions and other details included in **Annexure 1 to Annexure 11**. Particulars of the tender are as follows;

Sl. No.	Particulars	Details
1	Tender Reference No. & Date	GKCIET/E-TENDER/2019/03
2	Type of Tender	Open e-Tender
3	Publish Date & Time	Refer to CPPP system generated Tender Id. and Critical Date Sheet
4	Document Download Start Date & Time	
5	Document Download end Date & Time	
6	Bid Submission Start Date & time	
7	Pre-Bid Conference Date, Time and Venue	
8	Bid Submission End Date & Time	
9	Date for Opening of Bid	
10	Estimated Cost:	Rs-2498800/- (Twenty Four Lakh Ninety Eight thousand Eight Hundred Only)
11	EMD (refundable but non-interest bearing)	Rs-50000/- (Fifty thousand Only)
12	Tender Fee (non-refundable)	Rs 1000/- (Rupees one thousand only)
13	Price Bid and item details	As per BoQ uploaded at CPP Portal Note: Price Bid should be submitted in given BoQ format only. No any other format shall be accepted.

IMPORTANT NOTES:

- i. Tender Documents can be downloaded from the Central Public Procurement (CPP) Portal www.eprocure.gov.in/eprocure/app or from GKCIET website <http://www.gkci.ac.in>. However, the bidding process (submission and finalization) will be done in online mode at CPP Portal. The bidders may submit their bid only through uploading in the CPP Portal <https://eprocure.gov.in/eprocure/app>. No bids received by post or by hand or by FAX/E-mail, any other modes would be considered for evaluation.
- ii. GKCIET will assess the ability of the agencies to render the requisite services based on its past record, profile and on such other criteria and only those found fit will be considered.
- iii. GKCIET reserves the right to accept / reject any or all the tenders in part /full without assigning any reason thereof, revise the requirement of service at the time of placing the order, modify, relax or waive any of the conditions stipulated in the tender specification, wherever deemed necessary and award contracts to one or more bidders for the items covered by the tender.
- iv. Any corrigendum, if issued any for the tender, shall form part of the Tender Document. Any amendment will be notified on GKCIET website (<http://www.gkci.ac.in>) and CPPP portal. Bidders/Tenderers are requested to visit GKCIET and CPPP website regularly. Corrigendum/amendments to the tender without fail and submit the offer accordingly. GKCIET will not be responsible for ignorance of corrigendum.

Instruction for Online Bid Submission

1. The bidders are required to submit soft copies of their bids electronically on the CPPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPPP Portal.
2. More information useful for submitting online bids on the CPPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>
3. **REGISTRATION:** Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) as per CPPP portal guideline.
4. **SEARCHING FOR TENDER DOCUMENTS:** There are various search options built in the CPPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPPP Portal.

Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

5. **SUBMISSION OF BIDS**

- a) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- b) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- c) Bidder has to select the payment option as "offline" to pay the EMD as applicable and enter details of the instrument.
- d) Bidder should prepare the EMD/Bid Security as per the instructions specified in the tender document and attach a scanned copy of the same in the technical bid of the tender document. The original instrument should be posted/couriered/handed over to the tender issuing authority. In case the original instrument is not received before the date of opening of the bid, the uploaded bid shall be rejected, whenever applicable.
- e) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- f) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- g) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid

opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

- h) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- i) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details
- j) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.
- k) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.
- l) The bidder may please note that there is no facility of extension of the bid submission date for what so ever reason unless it is required by the purchaser. Therefore, they should ensure that the bid is uploaded well in advance without waiting for the last date and time as there could be issues like server not responding, internet speed slow, and document not getting uploaded and so on. GKCIET, Malda shall not be responsible for any of these factors.

6. ASSISTANCE TO BIDDERS:

- a) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- b) Any queries relating to the process of online bid submission or queries relating to CPPP Portal in general may be directed to the 24x7 CPPP Portal Helpdesk.
- c) Tenderer are advised to follow the instructions provided in the 'Instructions to the Tenderer for the e- submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://etender.gov.in/eprocure/app>.

7. Instructions:

- a) The offer must be submitted in Two Bid - Two Envelope only though uploading in the CPP Portal, before the last date & time for bid submission.
- b) Quotation document (s) and all enclosures must contain the signature of the competent authority of the firm.
- c) In case, the firm quoting for above mentioned items is the Authorized Dealer / Distributor of the manufacturer. Copy of authorization certificate should be enclosed with the quotation. Offers submitted without proper authorization shall be rejected summarily.
- d) The Bank/RTGS detail must be submitted along with the quotations /Tenders on the letter head. A Scan copy of the cancelled cheque can also be attached for verification of IFSC code (if

required).

- e) Bidders must submit their digitally signed bids. The covers will contain the following documents:

A. Cover 1

- i. Proof of establishment of Firms/shop/business/ manufacturing unit etc. and Dealership Certificate from the principals etc.
- ii. Proof of registration with any other central government organization (if any)
- iii. Photocopies of purchase orders received from any central govt. organization to the firm (if any).
- iv. Latest GST/Sales Tax Clearance certificate along with copy of Registration certificate under Sales Tax
- v. Blacklisting certificate if they are blacklisted from any Govt. Organization
- vi. Proof of turnover by way of Audited Balance Sheet/Auditor's certificate, if required
- vii. Photocopy of PAN card issued in the name of the bidder's firm
- viii. EMD Details (original instrument shall be sent to Tender issuing authority)
- ix. Manufacturers Authorization Certificate
- x. Copy of Income Tax return copies (last three years)
- xi. Bidder Specifications Compilation Sheet
- xii. Details specification of the quoted item, where bidder submit "No" i.e. not same as per our specification
- xiii. Similar Purchase Order copies executed in National Importance Institutions like, IITs, NITs, IISERs, NISER, Central Universities etc.
- xiv. Bidder's details
- xv. Terms and conditions for AMC for different quoted

B. Cover2

- i. Price Bid. (Separate in second Envelop in BoQ Ms-Excel format.)

8. List of Enclosure:

- i. Annexure 1: General Terms and Conditions
- ii. Annexure 2: Technical Specification
- iii. Annexure 3: Bidder Information Form
- iv. Annexure 4: Price Schedule
- v. Annexure 5: Format for Acceptance of Terms & Conditions of The Tender
- vi. Annexure 6: Mandate Form for Electronic Fund Transfer/RTGS Transfer
- vii. Annexure 7: Vendor Master Form
- viii. Annexure 8: Manufacturers' Authorization Form
- ix. Annexure 9: Letter of Guarantee
- x. Annexure 10: Compliance Report
- xi. Annexure 11: Check List

Date: ...20/12/2019
Place: Malda


(Assistant Registrar)
GKCIET, Malda

Annexure 1

GENERAL TERMS AND CONDITIONS

The offer must comprise of the following failing which it will be treated as non-responsible hence rejected:

1. Total price (with taxes) include basic price, all taxes, other charges (in any). Comparison will be made on total price (inclusive all).
2. The basic price must not be higher than price of the principal, if any additional accessories required, as per enquiry, it must be included within total price.
3. EMD (Refundable) not less than Rs. 2% of Estimated Cost of in favor of The Account Officer, GKCIET, Malda to be submitted in the form of Demand Draft (DD) from any Nationalized/ Scheduled Commercial Bank pledged in favor of "GKCIET, Malda" payable at Malda and it should be valid for a period of 45 days beyond the bid validity period. Bids received without EMD, Bank mandate form and other essential documents will be rejected. EMD should be send in sealed envelope. In any phase of tender process, if it found that EMD price is not appropriate will be rejected.
4. Original Demand Draft for EMD shall to send to **the Controller, Stores & Purchase Section, 1st Floor, GKCIET, P.O. Narayanpur, Dist. Malda, West Bengal, Pin 732141**, before the end date of Bid Submission and soft copy of the same instruments to be uploaded along with bid on CPPP in EMD details. Instrument received other than uploaded on CPPP shall not be accepted and such bid will be rejected on the basis of non-submission of EMD.
5. NSIC/SSI/MSME Units are exempted for submitting the EMD/Bid Security as per Govt. of India order.
6. Documentary proof to be enclosed with clearly mentioning the Category for EMD exemption.
7. EMD Exemption applicable to NSIC/SSI/MSME Units who are actual manufactures of the Quoted Stores and not for the Quoting or Offering Stores Manufactured by other OEM. Traders/Distributors/Reseller/Authorized Agents will not be considered for availing benefits of EMD exemption under PP Policy 2012 for MESs as per MSE guidelines issued by MoMSME.
8. Conditional tender bids will not be accepted.
9. Price Bid must be submitted in prescribed **BoQ in MS-Excel** format only, no other format will be accepted.
10. BoQ is in INR only, bidder shall quote in INR only. No request shall be entertained to add any other currency after the floating of the tender under any circumstance.
11. Bidders shall fill all the boxes in meant for the Bidders. No Box should be left blank. As the comparative statement will be generated by system. As system generates the comparative statement on the basis of the final landing cost. In case, any box left blank by Bidder such as taxes etc. system presumed that all break up prices included in the final landing cost.
12. The bidder shall complete the BOQ as provided in the bidding documents. The BoQ must be completed without any alterations to its format and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested in BoQ.
13. **Pre-installation Requirement:** The bidder should mention pre-installation requirements for the equipment like ambient temperature, humidity, weather specification, power specifications, etc., when items are provided full performance satisfactions, should be demonstrated. However, the supply of foundation bolts, anchor bolts, electrical insulation, vibration insulation, etc. including foundation will be in the scope of supplier.
14. **Taxes:** The percentage of taxes must be either inclusive/extra in exact figure should be mentioned clearly by the supplier. Institute will not provide any GST Exemption Certificate.
15. Bidder has to provide tentative schedule for supply, installation, commissioning along with their bid.
16. The quoted price (final offer) must be F.O.R. i.e. GKCIET, Narayanpur, Malda, West Bengal-732141 including packing & Forwarding, Freight, and Insurance etc.
17. The quoted amount (the final/total price of the items) shall include supply of item, delivery to actual site, installation, testing, commissioning, demonstration, training, supply of spare parts, third-party inspection (if any), all kind of taxes, equipment foundation for installation etc. The comparison shall be made based on the final/total price of the items (basic price + all others prices+ all taxes).

18. The quotations must be neatly typed or computer printed. Hand written offer will be rejected. Quotations must carry the numbers of GST No. invariably on the top.
19. **Specification and Make:** Quotation should be given for the exact specification and make as shown in the enquiry against Sl. No. of the item. All makes shall be reputed/standard unless otherwise specified in the Annexure 2 "Technical Specification". In the view of the supplier, if there is any other alternative item which can serve out purpose, quotation may also be given for the same separately along with previous client list, order copy of similar equipment supplied to any IITs / any other Govt. Organization including detail of price and all charges must be attached. There is scope to quote of optional items, if required, which will be included within the total price of the particular item in the BoQ in "any other charges" column. Evolution will be made on Total cost (inclusive all).
20. The supplier must have submitted the catalogue of the product, warranty/guarantee certificate, operator manual (2 copies), testing certificate, calibration certificate etc. along with the technical bid. The supplier must also provide a list of premier institutions (Like IITs/ NITs or Internationally reputed Universities, etc.) to which similar product has been supplied with product details. A compliance certificate to be provided item wise as per the specification.
21. **Delivery:**
- The supply shall be delivered at GKCIET, P.O. Narayanpur, Dist. Malda, West Bengal – 732141 and the supplier shall be responsible for damage during the transit of goods. In case of receipt of materials in damaged condition the suppliers will have to arrange the replacement of goods free of cost. All expenses in this regard will be borne by the supplier.
 - On arrival of shipment/consignment, the supplier is required to arrange custom clearance and transportation of the consignment up to GKCIET, Malda premises. The Tenderer/ bidder will do all types of clearance work and **formalities to deliver/provide the equipment at the site of installation. The expenses incurred will be reimbursed on actual basis not exceeding the quoted amount.** Institute will provide all types of documentary support including Customs Duty exemption certificate. The custom duty, demurrage (in case of delay in release of custom duty to the custom department by GKCIET, Malda) and government taxes/levies (if any) will be paid extra by the buyer after as per term of payment. This may be included in your quotation as a separate item. Entry Tax will be reimbursed on production of proof of payment.
 - The Successful bidders are requested to deliver the goods in actual site before 3.00 PM on any working day (Monday to Friday).
 - All the communications with respect to the delivery of items shall be addressed to:
The Controller (Store & Purchase)
Ghani Khan Choudhury Institute of Engineering and Technology
P.O. Narayanpur, Dist. Malda, West Bengal (India) Pin 732 141.
22. The date of delivery should be strictly adhered to failing which the purchase order is liable to be cancelled. Penalty may be imposed as per P.O. terms & conditions. Goods should be securely, safely and adequately packed & dispatched at the risk of supplier and packing costs quoting this order reference should be kept in all package. Local firms are requested to deliver the goods in our stores before 3.00 PM on any working day.
23. **Offer Validity Period:** The validity period of the offer should be clearly specified. It should be at least for 180 days from the last date of submission of the quotations.
24. **Performance Security (refundable but non-interest bearing):** The firm has to submit Performance Security of **10%** of the total order value in in favor of **The Account Officer, GKCIET, Malda** to be submitted in the form of Demand Draft (DD) from any Nationalized/ Scheduled Commercial Bank pledged in favor of "**GKCIET, Malda**" payable to be submitted on or before installation of equipment. Performance Security must valid for **14 (thirty-eight) months or 2 months beyond the maximum warranty periods of the items**, whichever is later, to cover the warranty.
25. **Guarantee/Warranty Period:**
- Except otherwise specified in the invitation to tender or Technical Specification (Annexure 2), the contractor hereby declares that the goods/stores/articles/equipment sold/supplies to the purchaser/consignee under this contract shall be of best quality and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars mentioned/contained

in the contract. The contractor hereby guarantees/warrantee that the said goods/stores/articles would continue to conform to the description and quality aforesaid for a period of **12** months from the date of receipt of goods/articles/equipment in good condition at site by the consignees in case of supply contract and **12** months from the date of installation and satisfactory taking over of the goods/stores/articles/equipment at site by consignee where installation and commission is involved and notwithstanding the fact that the purchase /inspection authority has inspected and/or approved the said goods/stores/articles equipment or such if during the **12 months** the said goods/stores/articles/equipment be discovered not to conform to the description and quality aforesaid or not giving satisfactory performance or have deteriorated and the decision of the purchase /consignee in that behalf shall be final and binding on the contractor/seller and the purchaser shall be entitled to call upon the contractor/seller to rectify the goods/stores/articles/equipment or such specified period as may be allowed by the purchaser in his discretion on application made thereof by the contractor/seller, and in such an event, the above period shall apply to the goods/stores/articles/equipment rectified from the date of rectification mentioned in the warranty thereof, otherwise the contractor/seller shall pay the purchaser such compensation as may arise by reason of the breach of warranty therein contained.

- (ii) Guarantee that they will supply the spare parts, if and when required on agreed basis for an agreed price. The agreed basis could be and including but without limitation an agreed discount on the catalogue price or an agreed percentage of profit on landed cost.
- (iii) Warranty to the effect that before going out of production for the spare parts they will give adequate advance notice to the purchaser of the equipment so that the later may undertake the balance of lifetime requirements.

Note: In case of any discrepancy in the period of guarantee/ warranty mentioned anywhere else in this Tender document, the stipulations as mentioned in the **Annexure 2 (Technical Specification)** would prevail.

26. **Liquidated Damages:** As time is the essence of this order, the date of delivery should be strictly adhered to, otherwise the delivery in full or in part may not be accepted and penalty for late delivery will be imposed @ 0.5% per week (07 days) to be calculated on day basis, subject to a maximum of 10% of the total value of supply order & beyond 10% subject to approval of **the Director GKCIET, Malda**. In case of delay in installation the same rate of penalty shall be leviable. In case of cancellation of order no compensation will be paid towards progress of order/procurement.

27. For any queries contact with as mention below on any working day (Monday to Friday) between 11.00 AM to 3:00 PM at:

The office of the Controller (Store & Purchase)
Administrative Building, GKCIET
P.O. Narayanpur, Dist. Malda, West Bengal
Pin-732141
e-mail: controller@gkciet.ac.in

- 28. Premises for enquiry of the status of the tender without prior permission may lead to rejection of the bid.
- 29. GKCIET, Malda reserves the right to accept or reject or cancel any or all enquiries or quotations at any stage without assigning any reason thereof.
- 30. At any time prior to the pre-deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the tender documents by amendment. The same would also be hosted on the website of the Purchaser and all prospective bidders are expected to surf the website before submitting their bids to take cognizance of the amendments.
- 31. For any dispute, the place of jurisdiction shall be Malda, W.B, India only.
- 32. **Annual Maintenance Contract (AMC) of Equipment:** After the warranty/Guarantee term is over, the firm has to provide AMC for the items at least for **1 years** (extendable type) unless otherwise specified in the invitation to tender or **Technical Specification (Annexure 2)** of this document.

Note: In case of any discrepancy in the period of and/or AMC mentioned anywhere else in this Tender document, the stipulations as mentioned in the **Annexure 2 (Technical Specification)** would prevail.

Annexure 2

TECHNICAL SPECIFICATION

Laboratory Equipment Specification for Department of Food Technology

Sl No. as per BoQ	Item Code	Item Name	Specification
01	FT/19/01	Softy maker	<ul style="list-style-type: none"> • Twin twisted flavours, floor model, air pump, full stainless-steel panel • Separate hopper refrigeration • Capacity: 300 Cones/h (100g/Cone), Storage capacity 10 litre of each flavour • Maintain safe product temperature in the mix hoppers and freezing cylinders during non-using period • Records number of dispenses per day and total number of dispenses. • Displays hopper and cylinder temperature and product viscosity and control should be by touch switch. <p>Warranty: Two years</p>
02	FT/19/02	Soxhlet Extraction Unit with glass parts	<ul style="list-style-type: none"> • Mantle type, unit of six test with all Cords & Plugs. • Surface Temperature 300°C. • Should be supplied with all the glass parts
03	FT/19/03	Sausage filler	<ul style="list-style-type: none"> • Mode of operation manual • Capacity: 2 litre • Material stainless steel • Packaging type capsule • Orientation vertical
04	FT/19/04	TDS meter	<ul style="list-style-type: none"> • Conductivity Range: 0 to 19.99, 199.9, 1999 μS/cm; 19.99, 199.9 mS/cm • TDS Range: 0 to 9.99, 99.9, 999 ppm; 9.99, 99.9 ppt • Resolution & Accuracy: 0.05% Full Scale & \pm1% Full Scale + 1 LSD • Temperature Range: -10.0 to 110.0 °C (Meter) • 06 Resolution & Accuracy: 0.1 °C & \pm0.5 °C • Calibration for Conductivity: Automatic (single or multi-point up to 4 points) / Manual (up to 5 points) • Calibration for TDS: Manual (up to 5 points - 1 per

			<p>range)</p> <ul style="list-style-type: none"> • No. of Calibration Points: Up to 5 points (1 per range) • Temperature Compensation: Automatic / Manual (0 to 100 °C) • Temperature Coefficient: 0.0 to 10.0%/°C • Normalization Temperature: 20.0 or 25.0 °C • TDS Factor: 0.40 to 1.00 (selectable) • Cell Constant: 0.1, 1.0, 10.0 (selectable) • Memory: 50 data sets • Special Functions: Auto-ranging; Hold; Stability Indicator; Self-diagnostic; & Auto-Power Off after 20 minutes (selectable)
05	FT/19/05	Tray drier	<ul style="list-style-type: none"> • Loading capacity 12 trays • Double door • Stainless steel trays • Over temperature protection • Temperature range 50-200°C • PID Temperature controller • Warranty: Two years
06	FT/19/06	Trinocular microscope	<ul style="list-style-type: none"> • UIS2(Universal Infinity System) optical system, • Rackless or ball bearing mechanical stage for durability and ease of use, • Quadruple revolving nose piece, • Wire movement mechanical stage:120x132mm • Traveling range: 76mm(X) 30mm(Y), • High performance aspheric lenses in Abbe condenser and the light relay system, • Window in the arm section to observe the specimen with naked eye & through the natural light by using reflector, • Universal power supply (100V to 240V) 50/60Hz voltage imported for LED illuminator, • Anti-fungus optics Plan Achromatic objective 4X, (N.A. 0.1, W.D 18.5mm) 10X (N.A. 0.25, W.D 10.6mm), 40X Spring (N.A. 0.65, W.D 0.6mm) & 100X Spring, oil (N.A. 1.25, W.D 0.13mm) with inter changability & course focus in both sides, 10x eyepiece field number 20 (anti-fungus), • FN 20) with ergonomic design frame for all main operating controls within easy reach,30degree inclined binocular tube interpupillary distance adjustment range 48-75mm, with abbe type aperture iris diaphragm condenser,

			<ul style="list-style-type: none"> • Microscope should be upgradable for incident light LED fluorescence techniques. • Photographic attachment: High resolution 5-Million Pixels, 1/2.5" USB CMOS color Camera and with Magnus C-mount optically corrected & compatible microscope adapter with 0.5X optical adapter. • Camera & Software Features: Camera: Simple connectivity, Ease of use & installation, Electronic shutter control (no moving parts) Single-cable operation (no external power supply or control unit), Portability with laptop computer (Computer Platforms/Operating Systems Windows 7, 8, 10). Auto/manual adjustments: Shutter 1/10000 to 30s, Gain 0 to 18dB, white balance -6dB to +6dB Software: Real-time preview & capture advanced color management color correction algorithms ensure accurate true color imaging. <p>Background and dark field correction. Auto-exposure, auto white balance, auto contrast (dynamic and manual controls)</p>
07	FT/19/07	Ultra-Sonicator Probe type	<ul style="list-style-type: none"> • Handheld and Stand mounted with base plate both use. • Power 200Watts and Frequency: 20 kHz, Automatic Frequency Tuning, Amplitude adjustable from 20 to 100%, pulse adjustable from 0 to 100%. • In-Built Colored touch-screen & Digital control, Temperature Probe and Power meter also in-built. • In-built software for data transfer. Provision for Eppindrop Tube & Glass sonotrode for corrosive sample. • Automatic Data recording, dry running protection, IP41 grade. • Sonotrode made of Titanium 2mm for sample volume (2 to 50ml), 7mm for sample volume (20 to 500ml) · 14mm for sample volume 50ml to 1000ml • Warranty Two years.
08	FT/19/08	Ultrasound water bath	<ul style="list-style-type: none"> • Operating frequency: 40 KHz • Tank Capacity (Litres): 6 • Internal tank size: (LxWxH)(mm): 300x153x150 • External dimension: (LxWxH) (mm): 325x175x290 • Internal tank stuff: SUS 304 #10t • External stuff: Steel plate toast paint LID cover stuff Stainless steel: SUS 304 • Timer: 1-99min • Power: 500 W • Should have facility for Drainage

			<ul style="list-style-type: none"> • Power source AC100-120V/AC220-240V 50/60Hz • Ultrasonic Frequency: 40KHz • Turbo power: Normal and soft function to resolve the cleaning blind spot • Auto-degas function for laboratory purposes • Memory function • Ability to track ultrasonic frequency automatically • LED display for temperature and timer • Temperature control: 0-80°C • User-friendly and clear panel • High-performance transducer system • Warranty: at least one year
09	FT/19/09	Vacuum oven With Vacuum Pump	<ul style="list-style-type: none"> • Triple walled Outer case in mild steel with epoxy powder coating with stainless steel quality of 304quality. • Vacuum chamber shall be robust stainless steel supplied with two stainless steel shelves. • Insulated with super fine mineral wool. The vacuum oven without glass door shall have stainless steel door and have radial locking and temp shall be maintained up to 130 °C • Size: 30-50 litre • Temperature control: electronic digital temperature indicator-cum-controller range 50 to 130 °C an indicator lamp, • Oil less vacuum pump • Warranty Two years.
10	FT/19/10	Vacuum packaging machine	<ul style="list-style-type: none"> • Flush up to 3 gases. • Sensor based system for high accuracy. Micro-processor based. • Four preset programs. • Digital Display. • Machine size (WxDxH): 680mm x 670mm x 1070mm. • Effective Chamber size (WxDxH): 510mm x 500mm x 270mm. • Sealing bar length: 510mm <p>Warranty for 2years</p> <p>AMC for 3 years after 2 years of warranty</p>
11	FT/19/11	Vortex Mixer	<ul style="list-style-type: none"> • Powerful motor for instant vortexing, • Q-Drive dynamic balance system, Touch or continuous operation mode, • Variable speed control from 200 to 3200 RPM,

			<ul style="list-style-type: none"> vortex mixers use orbital shaking in adjustable (MX-S) sockets, Operating Temp. Range: 4–65 °C, Electrical: (230 V AC, 50 Hz, 0.75A), Dimensions: 13 x 16 x 17cm, Weight: 3.8 kg with all the accessories to make the equipment functional and properly applicable Warranty: Two Years,
12	FT/19/12	Water activity meter	<ul style="list-style-type: none"> The instrument should be capable to measure Water Activity in all kinds of Food products. Measuring range 0.03 to 1.000 Accuracy range $\pm 0.003 a_w$ Resolution: $\pm 0.001 a_w$ Repeatability: $\pm 0.001 a_w$ Measuring time: < 5 minutes Temperature control : Internal 15-50 °C $\pm 0.2^\circ$ C Nature of sample can be analyzed: liquid and solid The instrument should be supplied with sample cups and lids to test samples. The instrument should also be supplied with verification standards (of different values) to calibrate the instrument. The instrument should be HACCP Compliant. The instrument should also be supplied with a cleaning kit to clean the sensor. <p>Warranty: Two Years,</p>
13	FT/19/13	Weighing balance (0.01, 0.001 g accuracy)	<ul style="list-style-type: none"> Weigh between 0.1 mg to 220g with a readability of 0.0001. With weighing and counting mode availability. Built-in and external calibration. . Stabilization time less than 3 sec 5. Tare by subtraction to full capacity. Pan size of about 90mm. Hold function to lock the weight. Operate on mains 115-230V, 50-60 Hz single phase and rechargeable. The Scale should be as per BIS specifications with ISI Mark. . ISO GLP compliance. . Standard bi-directional RS-232 or USB interface. Provision of indication when the sample weight reached the set point. Operating temperature 0-50°C. Provided with non-reactive pan, spatula, cleaner and cover for dust protection etc. Users list regarding supply during last two years. Warranty 2 years
14	FT/19/14	Meat Grinder	<ul style="list-style-type: none"> Motor (0.75KW), Cast aluminium base, Removable stainless steel feed pans standard,

			<ul style="list-style-type: none"> • Grind capacity output through hole size plates of 3/8 inches , 1/8 inches , 5/32 inches, 3/16 inches, • Size 22 knife, • Capacity should be approximately 4.5-7.3 kg/min, • Drive system HTD (high-torque drive), • Steel wire power grip belt, • Should be non-corrosive, • Should not have any need for lubrication.
15	FT/19/15	Hydraulic Press	<ul style="list-style-type: none"> • Plate dimension 450x350 mm, • Press force up to 50 ton, • Hydraulic pressure up to 150 bar, • Hydraulic power 1.5 kW, • Working temperature up to 300°C, • Heating power 1.5 kW, • Functions controlled by valves and controller system, • PID temperature controller
16	FT/19/16	Digital Display 4-unit Heating Mantle	<ul style="list-style-type: none"> • 4 series mantles sizes from 100 ml to 1000ml. • All Multi-positional Mantles should be fitted with individual energy regulators with indicator light for each heating surface, • LED Display for Temperature: Intelligent constant temperature, inner and outer sensor. With set-point temperature display. • Reduce and Add Knob for each position with automatically switch off after achieving set temperature. Temperature Control Accuracy $\pm 1^{\circ}\text{C}$, Temperature Display Accuracy 0.01°C. • Built-in temperature control maintains element temperature from ambient to 380°C .Adjusting heating mantle temperature, Accuracy 5°C
17	FT/19/17	Sieve Shaker	<p>Sieve Shaker</p> <ul style="list-style-type: none"> • Table top Vibratory Sieve Shaker fitted with maintenance free powerful motor suitable for Separation, Fractioning, and Particle size determination. • Suitable for particle in the range of $25\ \mu\text{m}$ to 20 mm • Sieve shaker should be capable of taking sample load up to 2 kg and stack of at least 8 sieves • Sieve Shaker should be capable of Sieving with 3-D effects and instruments should have throwing motion with angular momentum. • With Analog amplitude from 1-3 mm, should have timer • Speed can be regulated continuously and should be Quite running (max. 70dBA) • The instrument should meet international standards and should be CE certified. • The instrument should work with power supply of 230V/ 50Hz

			<ul style="list-style-type: none"> • Vendor should quote for comfortable clamping device and suitable collecting pan along with laser sealed and laser calibrated sieves of IS/ASTM standard with compliance certificate for following
18	FT/19/18	Automatic Titrator	<ul style="list-style-type: none"> • Range: 25-100 ml • Acid/Base Titrations, Non-Aqueous titrations (TAN/TBN) with combination of three electrode system. • Redox Titrations, Argentometric Titrations, Complexometric Titrations, KF Titrations, Mercaptan Sulphur with Sulphide coated Ag electrode, Titrator with suitable electrodes for the above analysis, Magnetic Stirrer, Exchangeable Burette Units. • Perform different types of Titrations. • It should be possible to connect Titrator to a PC to store methods and titration data on PC. • Programmable Polarizer, Measuring Inputs, Differential Amplifier, Keypad, Display, Burette recognition. • Data Memory: 10,000 bytes to accommodate minimum 70 methods. • Potentiometric titrations: Volume, Potential, Number of end points, and volume in function of sample size. • Calculations: Automatic calculation of results, with display and printout of results in various different units. • Multipoint PH calibration with linear regression. • GLP/ISO requirements, Exchangeable Burette Unit. • Warranty One year
19	FT/19/19	Bomb calorimeter (Imported)	<ul style="list-style-type: none"> • Working principle: Isoperibol or Adiabatic • External Power supply: Voltage rating 100 – 240 V AC • Input power max: 120W, Measurement frequency: 60 / 50 Hz • Operating range: 10-50°C • Energy Measurement range: 1000-8000 kcal/kg for 1 gm sample. • Reproducibility (using NIST benzoic acid 39j) • Adiabatic 0.2% • Isoperibol: 0.2% • Conforms to standards: DIN 519000, ISO 1928, ASTM 240 D, etc. • Temperature Measuring Resolution: 0.0001°C • Corrections: Halogen, sulphur, nitrogen, moisture and ash • Type of bomb: Removable, Standard bomb. • O₂ filling of decomposition vessel: Semi-Automatic using Oxygen filling station. • Computer Interfaces: Yes • Display: Touchscreen

			<ul style="list-style-type: none"> • Auxiliary energy: Oxygen (Purity 99.95%) • Operating oxygen pressure: 30 bar <p>Accessories required</p> <ul style="list-style-type: none"> • Printer with cable • Oxygen gas regulator • Warranty 2 years minimum
20	FT/19/20	Colorimeter	<ul style="list-style-type: none"> • Sensor geometry: 45° circumferential illumination and 0° viewing, • Measuring area: 3.75 inch (9.5 cm), • Observer Function: 2° standard observer, • Illuminant: Illuminant C. • Light Source: Continuous tungsten halogen lamp. • Display: 10.4 inch (26.4 cm) colour LCD with touch screen • Data and function input: LCD touch screen. • Hard copy data: Built-in thermal printer • Data Connection: USB and Ethernet, • Data Storage: As standard thousands • Statistics: Average, standard deviation, maximum, minimum, range. • Colour Scales: Tolerances: User entered tolerances for colour scales and indices, CMC automatic tolerancing Pass/Fail displayed based on tolerances. <p>Warranty 2 years minimum</p>
21	FT/19/21	Crown Corking Machine	<ul style="list-style-type: none"> • Used for Sealing crown corks on glass bottles. • Should be simple hand operated machine, • Should be simple to operate fuse. • Made of MS. • Capacity: 8-10 Bottles/min
22	FT/19/22	Desiccator	<ul style="list-style-type: none"> • Made of glass and also provide Silica.
23	FT/19/23	Gel Electrophoresis unit With Power Pack - Whole Unit	<ul style="list-style-type: none"> • Horizontal electrophoresis Mini and Midi unit with transparent tank holding min. • Volume of 250 ml buffer • Unit Dimensions (W x L x H): min. 10 x 22 x 5 cm; • UV transparent gel trays: Each 2 in number • Gel tray size: 7 x 7 cm and 7 x 10 cm • Comb – 8 well comb of 0.75 mm and 1.5 mm minimum 3 each Comb – 15 well 1.5 mm comb min. 3 in number • Basic power supply system with digital display • Power supply should be compatible with UPS • Lids, cables, minimum 3 power cods/electrodes compatible with universal power pack • Should be provided with all accessory to run the instrument successfully. • Minimum two years of comprehensive warranty on instrument and accessories after successful commissioning.
24	FT/19/24	Hot plate	<ul style="list-style-type: none"> • Product Type Stirrer (Hot Plates)

		with stirrer	<ul style="list-style-type: none"> • Max load capacity 25 (lbs) • Speed (rpm) (low) 30 • Speed (rpm) (high) 1200 • Max temperature (° C) 540 • Top plate material Ceramic • Top plate dimensions 7in x 7in • Dimensions 8.5 in x 3.75 in x 12.75 in • Max stirring volume 4 liters • No. of stirring positions 1 • Plug type U.S. std • Power 120VAC, 50/60 HZ
25	FT/19/25	Hot Plate	<ul style="list-style-type: none"> • Made of ceramic glass which offers excellent chemical resistance. • Fixed safety circuit of 550 °C • Hot Top indicator >> hot surface warning to prevent burns • Exact temperature setting via digital display (LED) • Bushing according to DIN 12878 for connecting a contact thermometer, e.g. ETS-D5, enables precise temperature control • Digital error code display • Elevated control panel for protection against leaking liquids • Heat output 1500 W • Heating temperature range 50 - 300 °C • Heat control LED • Heat control accuracy 10 ±K • Set-up plate material Ceramic • Set-up plate dimensions L: 200 -300 mm; B: 200 - 300 mm • Voltage 230 / 120 / 100 V • Frequency 50/60 Hz • Warranty Minimum 1 year
26	FT/19/26	Grain Divider	<ul style="list-style-type: none"> • Capacity: 1 kg • Material: Brass/S.S • Voltage: 220/230VAC • Frequency: 50 Hz • Uses: Rice and all type of grain Seed • seed sample: 03 halves • Inner part body: made of copper and brass eliminating possibility of rust. The legs and supports are made of chrome plated steel. The bottom section should be removable for cleaning and the pockets are visible from top. • Accuracy: ±5% on a 1 kg sample
27	FT/19/27	Gauge meter	<ul style="list-style-type: none"> • Non-metal coating thickness on the metal surface. • Measuring range: 0~1.25mm. • Measuring precision: 2%RDG±0.02mm

			<p>(2%RDG±1mil) for steel and aluminium.</p> <ul style="list-style-type: none"> • Coating thickness gauge: SR2120B • User-friendly and highly economical, LCD display and automatic measurement data maintenance, Rapid measurements, safe to use and portable.
28	FT/19/28	Magnetic stirrer with hot plate (Controlled heating)	<ul style="list-style-type: none"> • Temp range(⁰C)- RT to 200 • Temp display- (will prefer LED) • Work plate material- resistant to acid and alkali • Speed rpm-0-1500 • Temperature sensor • 110V/60Hz • Stirring volume-1L • With magnet bar for each plate
29	FT/19/29	BOD Incubator	<ul style="list-style-type: none"> • Double wall construction, Inner chamber made up of stainless steel 304 quality & outside of M.S painted • Temperature range 5°C to 60 °C± 1°C & is controlled by digital temperature incubator cum controller. • Fitted with unbreakable transparent acrylic • Compressor shall be fitted with standard make kirloskar/ shriram • Circulating Fan: 2 nos fitted inside the chamber • Shelf; 3 Nos made of SS wire. The tray can be adjusted anywhere at a distance of 4 cms • Working temperature: 5°C to 50°C or 10°C to 5°C when light are on. • Temperature accuracy: ± 1°C (or 0.5°C under ideal conditions) • Temp Readability: 0.1°C • Warranty Two years.
30	FT/19/30	Refrigerated Laboratory centrifuge	<p>Centrifuge with Rotor (4 x 100 ml) with following parameters –</p> <ul style="list-style-type: none"> • For sedimentation up to 4 x 100 ml in swing-out-rotors or up to 20.000 x g in angle rotors – • Should have brushless drive practically maintenance-free –Speed pre-selection up to 15.000 rpm - Low speed operation from 100 rpm – • Should be able to prevent rotors from over speeding, – Stainless steel bowl – • Should have easy lid opening (pneumatic spring support) – • Should have window in the centrifuge lid for external speed control <p>Warranty Two years</p>
31	FT/19/31	Deep Freezers	<ul style="list-style-type: none"> • Temp. Range: -20 to -80 degrees C • Capacity: 300 Litres • Controller: Microprocessor / Micro-controller-based Temperature controller. • Temperature Display: Digital LED/LCD. • High & Low temperature Alarm Door- Standard

			<p>hinged door with Double gasket seal between the door and the cabinet increases system</p> <ul style="list-style-type: none"> • Trays- Adjustable stainless steel trays with perforated design. • Castors: Castors for minimal effort mobility. • Heavy duty Air-cooled compressor. The compressor shall be distinguished by its excellent performance, low noise level (<60dB) and minimal vibration. • Power Supply: -220 volts, 50Hz. / 110 volts, 60Hz <p>Warranty- Minimum Two year</p>
32	FT/19/32	Digital Multi Thermometer	<ul style="list-style-type: none"> • Digital multi thermometer, Range: 0 to 300°C ; Hg filled; Anti-roll cap, T shape
33	FT/19/33	Falling Number Apparatus (Imported)	<ul style="list-style-type: none"> • Complete system (stirring unit, display and control module and sample preparation mill) for determination of the alpha amylase content of wheat and cereal products by the falling number method. • Should be microprocessor controlled, with dual crystal displays. Keyboard, serial RS232 data output system, bar code pen should be included. • Control unit should have built in function monitoring and error checking. • Should be supplied with hammer type cyclone mill with a capacity of about 300g for preparing samples for falling number analysis. • Should be supplied with two additional stainless sieves of 0.8 mm each. • Approved by AACC 56-81 + ICC 107 • Facility for blend ratio and attitude correction • Power supply 220V, 50-60 Hz <p>Two year of warranty</p>
34	FT/19/34	Microscope	<ul style="list-style-type: none"> • Binocular • Frame: All aluminium pressure die casted body • Nose piece: Quadruple ball bearing nosepiece • Observation head: 360° rotate able and 45° inclined head • with all anti-fungus prisms • Focusing system with separate knobs for cores and fine • motion having least count of .002 mm • Focusing system with separate knobs for cores and fine • motion having least count of .002 mm • Mechanical stage on dovetail slides • Condenser: Bright field sub stage condenser • Eyepieces and objective: Set of 4x, 10x, 40x and 100x and • a paired set of 10x wide field eyepieces • Illumination: 6V/20W halogen lamp

			<ul style="list-style-type: none"> • Warranty of two years
35	FT/19/35	Micro Pipette	<ul style="list-style-type: none"> • Capacity: 10-100 µl, • Autoclavable digital Micro Pipette • Advanced durability against organic solvent dispensing, Resistant to organic solvents. • Fully autoclavable, Easy-Calibration function, One-touch locking mechanism to lock the sample volume
36	FT/19/36	Micro Pipette	<ul style="list-style-type: none"> • Capacity: 100-1000 µl, • Autoclavable digital Micro Pipette • Advanced durability against organic solvent dispensing, Resistant to organic solvents. • Fully autoclavable, Easy-Calibration function, One-touch locking mechanism to lock the sample volume
37	FT/19/37	Sedimentation shaker with volumetric flask	<ul style="list-style-type: none"> • Main Body (MOC) : CRC-PC • Sample Holder (MOC) : Wooden Carrier • No. of Samples : To Hold 5 Samples • Oscillations / Min : 40 oscillations/min • Tilt Angle : 30 degrees, each side • Digital ON/OFF Timer : To set upto 999 minutes • End of Cycle Buzzer: End of cycle Audio Buzzer provided. • Supply : 220/230 Volts AC Supply
38	FT/19/38	Electric Mixture (Light Duty liquid Mixer)	<ul style="list-style-type: none"> • General purpose mixers • Economical, compact, and durable • Up to 7500rpm • Economic, light duty batch mixer without speed control offers a fixed speed of 1550rpm. • An internal overload feature shuts down motor when it becomes too hot. • Mixes five gallons of water. • Adjust-Speed Control
39	FT/19/39	Heat Sealing machine	<ul style="list-style-type: none"> • For sealing heat sealable poly pouches. • Adjustable electronic timer. • Adjustable bag rest. • Visual indication during sealing. • Adjustable sealing jaw. • Size:12 inch • Hot bar sealer for lamination pouches.
40	FT/19/40	Relative humidity chamber	<ul style="list-style-type: none"> • Product capacity around 29 cu.ft and 850 ltr • Voltage 220/240 and hertz 50/60Hz • Height exterior 89-inch, width 38-inch, depth exterior 32-inch, Height (metric) exterior 225 cm, width exterior 97 cm, depth 82cm • Cabinet material should be cold rolled steel, powder coated, amperage 15 • Shelves should have around 6 minimum, • Display-digital dual LED, programmable temperature ramp and soak upto 24 hrs • Temperature range from 0 to 60 C, resolution 0.1 C,

			<ul style="list-style-type: none"> uniformity ± 0.3 at 25° to 37°C • Sensor should be RTD, compressor ¼ hp air cooled Relative humidity control via steam generator from above ambient to 95% at 37°C • Heat output around 1750W (6000 BTU/hr.) at 220V, 1600W (5500BTUH) • Humidity accuracy $\pm 5.0\%$, control microprocessor, PID • Display-digital, dual LED (direct set and read in % RH), humidity sensor bulk polymer, source- Steam generator; initial fill approx. 1 qt. (1L) • Input Water Pressure- Water Inlet Gravity to 40psi, Resistivity 50 kilohm to 1megohm resistance • Interior lighting, adjustable defrost timer factory set for two 15- min. defrost cycles/24 hr. • Refrigerant - CFC-free, R134A, water consumption-0.25 gal/hr. input water volume • Certifications- ICH, FDA, TAPPI, ASTM™ • Dimensions (D x W x H) Interior-27 x 60 x 31 in. (68.6 x 152.4 x 78.7cm) UPS should provide as per capacity needed to the instruments • Warranty: 2 Yrs
41	FT/19/41	Glass Wet and Dry Bulb Thermometer	<ul style="list-style-type: none"> • Application: Industrial • Temperature Range: -10 to 0 °C • Accuracy: 0.5% • Material: Glass • Measuring Range: -10 to 50 °C OR -20 to 120 °C • Measuring Element: Mercury / Red Alcohol • Resolution / Scale: 0.5 °C
42	FT/19/42	Fibre Estimation System	<ul style="list-style-type: none"> • Measurement range: 0.1% ~ 100% • Sample weight: 0.5g ~ 3g • Repeatability error: Craw Fiber Content below 10%, $\leq 0.4\%$ Craw Fiber Content above 10%, $\leq 1\%$ • Capacity: 6 pcs/batch • Pre-heating time: 10-12min • Heating to boiling: 13-15min • Rated power: 2.2KW • Power supply: 220 VAC $\pm 10\%$ 50Hz • Dimension: 776mm×476mm×644mm • With full software, system and all necessary parts.
43	FT/19/43	Auto Pipette	<ul style="list-style-type: none"> • Capacity: 1-10 ml • Material: Borosilicate Glass • Application: Chemical Laboratory • Colour: Clear
44	FT/19/44	Electrical Butter Churner	<ul style="list-style-type: none"> • Stainless Steel Electrically Operated Butter Churners with Barrel Capacity 5 Litters Churning Capacity 3 Litters pillar mounted on SS Stand AC 220 Volts 1 10 H P Single Phase Motor • Mounted: Drain Outlet Mounted on M.S. Frame • Voltage: 240 Volts • Pressure Testing: 500 mpa

			Design Type: Customized
45	FT/19/45	Baking Oven	<ul style="list-style-type: none"> • Voltage:380 V • Power: 27 kW • Material: Stainless Steel • Power Source: Electric • Dimension: 1260x850x1670 mm • Pan Size: 600x400 mm (16x24 inch) • Capacity: 3-Desk 9-trays • Usage: Biscuit, Cake, Pizza, Bread, Toast etc • All type of dice also provides for above said products. • Warranty Two years.
46	FT/19/46	Laboratory Pulveriser (Hammer Mill)	<ul style="list-style-type: none"> • Material: Aluminium, Cast Iron, Mild Steel. • Handled Material: Food Materials • Automation Grade: Automatic • Motor: 15 HP, RPM: 2800 RPM • Capacity: 300 kg, • Length: 4".5' Width: 3".9' Height: 4".1' • Uses: dry & wet grinding of all types of chemicals, coal, colours, cosmetics, dyes, food colors, fertilizers, gum, gram flours, manures, minerals, medicine herbs, pharmaceuticals, plastics, paints, pigments, pesticides, sugar, spices, salt, tobacco, tea pre-mixes etc. • low cost, highly efficient grinding mill
47	FT/19/47	Juicer Mixer Grinder	<ul style="list-style-type: none"> • Features: Easy Grip Jar Handle, Elegant Body Design, Motor Overload Protector, Multi-Functional Blade System • Type: Juicer Mixer Grinder • Jars: 4 • Jar materials: SS • Switch Type: Rotary • Power Consumption: 750 Watts
48	FT/19/48	Micropipette Stand	<ul style="list-style-type: none"> • 06 nos. of micro-pipette holding capacity.
49	FT/19/49	Moisture Analyzer	<ul style="list-style-type: none"> • To determine moisture content in food sample; • functions should be on the gravimetric or loss on drying (LOD) principle. • The moisture analyzer should uses the halogen method to dry the material sample; • Calibration functions with digital display. • Weighing range: 0.1 g ... 110 g / 0.0035 ... 3.88 oz • Weighing resolution or readability: 0.01 g / 10 mg • Moisture content measuring range: 0 ... 100% • Moisture content resolution or readability: 0.1% • Adjustable drying time and temperature
50	FT/19/50	Mortar and pestle	<ul style="list-style-type: none"> • Made of Porcelain; • Mortar and Pestle Inside Dia. 125mm; • Capacity: 500 ml.
51	FT/19/51	Orifice	<ul style="list-style-type: none"> • The Design and Materials used for the components should comply with the relevant National and

		Meter	<p>International standards. 2.3 As a minimum requirement, ISO 5167 / BS 1042 standard shall be complied with for Flow Orifices.</p> <ul style="list-style-type: none"> • The Orifice plates should be of concentric type, designed and manufactured as per BS-1042 / ISO 5167. The data sheet enclosed should specify the requirements of each orifice plate assembly. • Vent holes, should be located at the top and drain holes at the bottom of the orifice. • The material of the Orifice plates should be stainless steel type SS 316. • Orifice Plate thickness should be ≥ 3 mm (min.) for pipes having diameter ≤ 250 mm and should be ≥ 6 mm (min.) for pipes having diameter up to 500 mm and should be ≥ 10mm (min.) for pipes having diameter up to 1000mm. • Assembly: Orifice plates should be supplied as complete assemblies, along with companion flanges on both sides having proper end connection for welding on to the associated pipe at site, gaskets, nuts & bolts. The carrier ring assembly shall be supplied along with corner taps for orifice assembly having sizes ≤ 2 inches (max.). Concentric Square edge orifice should be provided with downstream beveled edge. Each flow orifice assembly should be provided with minimum three pairs of pressure tapping complete with associated root valves, suitable for the service conditions. The pressure tapping shall be provided either on the carrier ring or on the companion flanges as the case may be. 2 Nos. Root Valves should be provided for normal pressure above 40 atm. Extra pressure tapping (other than the three tapping's mentioned above) complete with associated root valves and other accessories should be provided in case to case basis for a specific project if required. • Flanges: The flanges should conform to latest revisions of ASME B16.36 / ASME B16.47 (B). The companion flange and the carrier ring material should be same as that of the main pipe. • Hydraulic test pressure for Assembly should be 1.5 times of the design pressure at normal temperature. • Guarantee & Performance The guarantee for the flow orifice assemblies should be for 12 months continuous operation from the date of commissioning.
52	FT/19/52	Paddy De-husker	<ul style="list-style-type: none"> • Maintenance free • Lower Power Consumption • Simple and troublefree mechanism • Sample capacity: 1000 gms • Power: 0.25 H.P. Single Phase • Dimensions: 715x335x795 mm (LxBxH)

53	FT/19/53	Pasta Making Machine	<ul style="list-style-type: none"> • Hopper made of Food Grade SS. • Automatic mixing, kneading and extruding. Adding different ingredients to personalize pasta flavor. • Unique shaping discs to create various type of pasta. • Specially designed cleaning tool for easy one-push cleaning. • Net Weight: Below 10 kg • Product Dimensions (mm): 340(L) x 220(W) x 280(H) • Input Power Supply: Single Phase 220 V, AC 50 Hz • Power Consumption: 150 W.
54	FT/19/54	Pipette Stand	<ul style="list-style-type: none"> • Holding capacity of 10 to 12 nos. Of pipette of different dia.
55	FT/19/55	Potato Peeler	<ul style="list-style-type: none"> • Capacity: 5kg. • Motor: 0.5 hp. • Voltage: 220v/50 hz • Size: L 51 x B 51 x H 85 cm. • Weight: 50 kg. • Utility: Peeling Potato Skin with Faster.
56	FT/19/56	Proofing Chamber	<ul style="list-style-type: none"> • Size: 20×30×52 Inches. • Material: Food Grade Stainless Steel. • Features: Humidity Control. • Frequency Hz: 50/60; Single Phase; 220-380 volt; Power: 2.5kW approx. • Tray Size: 400×600 mm. 10 number of tray.
57	FT/19/57	Pulper	<ul style="list-style-type: none"> • Motorized with capacity 80 Kg. /hour, with 1 HP motor, Single phase. • Pulper net and all contact parts made of food grade SS;outer pert made of MS.
58	FT/19/58	Digital Abbe Refractometer	<ul style="list-style-type: none"> • Measurement of Refractive index/Brix value:Scale-Refractive Index/Brix/Temperature. • Measurement range-Refractive Index-1.3000 to 1.7000 at least. • Brix-0.0-100% Provision for automatic temperature compensation. • Minimum scale-Refractive Index(Nd):0.0001 Brix-0.1% • Measurement accuracy-Refractive Index±0.0002 or better, Brix: 0.1% or better. • Light source: LED (Approximately to wavelength of D line) Output to a digital printer. Powersupply-220-240 V.
59	FT/19/59	Refrigerator (Double Door) Frost Free	<ul style="list-style-type: none"> • 285-330 liters, • Frost free refrigerator with power cut ever cool & new smart inverter compressor technology • 3/4 star rating, • Smart inverter compressor, 4-way cooling, • Eco-friendly refrigerator.
60	FT/19/60	Rotary	General Specifications

		<p>Evaporator</p>	<ul style="list-style-type: none"> • Vertical condenser for standard applications Protection class IP21 Angle adjustable 0 – 35 ° Rotation speed 20 – 280 rpm Flask size range 50 – 4000 mL Evaporating flask from 50-4000 ml which can be used on the same joint adapter without additional connections. All glass components should be made of Borosilicate 3.3 glass. Approval CE • Heating Bath : o Protection class IP21 Controlled temperature range 20 – 95 °C Volume atleast 4000 mL Temperature regulation accuracy ± 2 °C Digital Temperature display which can allow adjusting set temperature and indicates actual temperature Over-temperature protection Power cut off when actual temperature exceeds set temperature or by rapid temperature increase Integrated handles which can facilitate carry, re-filling and emptying the heating bath o Top cover for heating bath not in use. • Vacuum Pump: Chemically resistant PTFE diaphragm vacuum pump. Regulated by the Digital Controller and to be delivered with a silencer and 2 m of vacuum tubing. Suction capacity: 1.5 m/h Final vacuum (absolute): 10 mbar (± 2 mbar) Sound level: 40 – 52 dB(A) or less Pump should have ECO-mode that should get automatically activated after maximum 1 hour of
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			<p>operation.</p> <ul style="list-style-type: none"> • Digital Vacuum Controller: Control range 1100 – 1 mbar <p>Measuring accuracy ± 2 mbar (± 1 digit) or better</p> <ul style="list-style-type: none"> • Digital Display, • Protection class IP21 • Approvals CE / CSA • It should have timer function to stop the process after pre-set time o <p>Overpressure prevention - Automatic aeration when pressure above 1400 mbar</p> <p>Vacuum regulation of set pressure</p> <ul style="list-style-type: none"> • Re-circulating Chiller: Compact and Robust Re-circulating Chiller with a cooling capacity of 500 Watts at 15 deg • Temperature Range: 5 to 25 deg C • Pump Capacity: 2.5 liters/min at 0.6 bar or more • Coolant: CFC • Warranty Two years.
61	FT/19/61	Seed Germinator	<ul style="list-style-type: none"> • Temperature Range: 10°C to 60°C • Humidity Range: 40% RH to 95% RH • Accuracy: $\pm 0.2^\circ\text{C}$ & $\pm 2.0\%$ RH • Uniformity: $\pm 1.0^\circ\text{C}$ & $\pm 3.0\%$ RH • Control System: PLC or PID Based
62	FT/19/62	Shaking Incubator	<ul style="list-style-type: none"> • Double walled construction. Outer body made of Mild Steel duly Powder Coated for longer durability. Inner chamber made of Stainless Steel with ribs to hold trays. • Shaking platform made of Stainless Steel to accommodate Flask of different capacity. • Temperature controlled by Digital temp. Controller cum indicator from 5 to 70 deg C with an accuracy of ± 0.50 • Timer - 0.01 – 99.99 hrs continuous • Alarm - Audio visual continuous alarm • Clamps - 50 ml/ 100ml/ 150ml/ 250ml capacity flask adjustable wire spring clamps. • Programming modes - Constant speed and temperature, Multi step programming. • Speed range - 15 – 500 rpm • Agitation - orbital (should be interchangeable to vertical also) • Orbit - 2.5 cm • Capacity - 50X 50 ml flasks • Display - LED with Time, Speed, • Temperature with set points Stackable,

			<ul style="list-style-type: none"> • Interchangeable platform, Humidity. regulator, Closed system, • Refrigeration system, Automatic power failure restarts, UV lamp, internal light, Non-volatile memory with automatic power failure restart, Stored program memory. • Warranty Two years.
63	FT/19/63	Shaking Water Bath	<ul style="list-style-type: none"> • Temperature range: ambient to 100°C, • Electronic digital temperature indicator with an accuracy of +0.5°C. Thermostat, • Double walled inside made of SS body, shaker arrangement, shaking tray inside (275 x 275 x 150 mm), • shaking speed range from 40 to 140 rpm, Shaking racks • made of SS to hold 5 number flasks (250 ml capacity), test • Tube rack for holding 25 ml test tubes.
64	FT/19/64	Hot Air Oven	<p>Double walled construction inner chamber made of Stainless Steel 304Q & exterior made of G.I. sheets powder coated. The Gap between the two walls filled with glass wool insulation. Fully insulated door with brass lock hinges & ventilator. Temperature Controlled by Electronic Digital Temperature controller with PT 100 as sensor. Stainless steel perforated shelves.</p> <ul style="list-style-type: none"> • Temperature Range: RT to 250°C • Temperature Resolution: 0.1°C • Control Accuracy: +-0.1°C • Chamber Size: 455 mm 455mm 600mm • Selves no.3 • Forced Air circulating System with Fan for temperature Uniformity • Temperature controller by Microprocessor based Auto Tune PID controller with 0.01 resolution & PT 100 as sensor. • Electronic Digital Timer

Annexure 3

BIDDER INFORMATION FORM

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted. This should be done of the letter head of the firm]

Date: [insert date (as day, month and year) of Bid Submission]

ICB No.: [insert number of bidding process]

Alternative No.: [insert identification No if this is a Bid for an alternative]

Page _____ of _____ pages

01.	Bidder's Name <i>[insert Bidder's legal name]</i>
02.	In case of JV, legal name of each party: <i>[insert legal name of each party in JV]</i>
03.	Bidder's actual or intended Country of Registration: <i>[insert actual or intended Country of Registration]</i>
04.	Bidder's Year of Registration: <i>[insert Bidder's year of registration]</i>
05.	Bidder's Legal Address in Country of Registration: <i>[insert Bidder's legal address in country of registration]</i>
06.	Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
07.	Attached are copies of original documents of: <i>[check the box(es) of the attached original documents]</i> <ul style="list-style-type: none">➤ Articles of Incorporation or Registration of firm named in Sl. No.1 above (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITB 4.3.➤ In case of Government-owned entity, enterprise or institution from India, in accordance with ITB 4.5 documents establishing:<ul style="list-style-type: none">• Legal and financial autonomy• Operation under commercial law• Establishing that the Bidder is not dependent agency of Borrower, Sub-Borrower or Purchaser in accordance with ITB sub clause 4.5➤ Included are the organizational chart, a list of Board of Directors, the beneficial ownership, Group companies and holding chart.

Signature of Bidder with stamp _____

Name _____

Business Address _____

Annexure 4

PRICE SCHEDULE

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Basic Rate Rs. P	Excise Duty Amount in INR Rs. P	GST Amount in INR Rs. P	Any Other Taxes in	Any Other Charges Rs.	Total Amount Without Taxes	Total Amount With Taxes	Total Amount In Words
1.												
2.												
3.												
4.												
5.												
6.												
7.												

Annexure 5

FORMAT FOR ACCEPTANCE OF TERMS & CONDITIONS OF THE TENDER

(To be given on Company Letter Head)

Date:

To

Sub: Acceptance of Terms & Conditions of Tender

Tender Reference No: _____

Name of Tender / Work: _____

Dear Sir,

I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely: as per your above tender notice given in the above mentioned website(s).

I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting this acceptance letter.

I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder with Official Seal)
(Name and Designation)
(Name of the Firm)

Annexure 6

MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

Date: / /

To
The Assistant Registrar (Fin)
Ghani Khan Choudhury Institute of Engineering and Technology
P.O. Narayanpur, Dist. Malda, West Bengal
Pin – 732141

Sub: Authorization for release of payment / dues from Ghani Khan Choudhury Institute of Engineering and Technology, Malda through Electronic Fund Transfer/RTGS Transfer

1. Name of the Party/Firm/Company/Institute:
2. Address of the Party:
City e-mail ID: Mob No:
3. Permanent Account Number
4. Particulars of Bank:

Bank Name:		Branch Name:	
Branch Place:		Branch City:	
PIN Code:		Branch Code:	
MICR No.:			
Digit number appearing on the MICR Bank of the Cheque supplied by the Bank, please attach a Xerox copy of a cheque of your bank for ensuring accuracy of the bank name, branch name and code number)			
IFS Code:(11 digit alpha numeric code)			
Account Type	Savings	Current	Cash Credit
Account Number:			

DECLARATION

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Assistant Registrar (Fin), Ghani Khan Choudhury Institute of Engineering and Technology, Malda responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place: _____

Date: _____

Signature & Seal of the Authorized Signatory of the Party

Certified that particulars furnished above are correct as per our records

Bankers Stamp:

Date:

Signature of the Authorized Official from the Bank

N.B: Please fill in the information in CAPITAL LETTERS, computer typed; please TICK wherever it is applicable

Annexure 7

VENDOR MASTER FORM

(To facilitate registration under PFMS and fund transfer through RTGS, NEFT/ INTRA BANK Transfer-One time information required)

Sl No.	Information required	Data furnished
1	Name of the supplier company /firm	
2	CIN Number (in case of company)	
3	Complete contact address with PIN number	
4	Landline phone number	
5	Mobile number of contact person/ Finance Executive (for SMS on payment details)	
6	e-Mail ID (for receiving payment details)	
7	PAN Number	
8	GST Registration Number (with copy of GST registration certificate)	
9	TAN Number	
10	Bank account number (with a copy of cancelled cheque or Xerox copy of cheque leaf)	
11	Name of the Bank	
12	Name of the Bank Branch	
13	IFSC Code of Bank	
14	MICR Code of Bank	
15	Bank Account details where LC is to be opened in case of foreign suppliers	

I / We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or credit is not affected at all for reason of incomplete or incorrect information, the Ghani Khan Choudhury Institute of Engineering and Technology, Malda will not be responsible.

Authorized signatory with date and seal

Annexure 8

MANUFACTURERS' AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Date: *[insert date (as day, month and year) of Bid Submission]*

Tender No.: *[insert number from Invitation for Bids]*

To *[insert complete name and address of Purchaser]* WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 3.1 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Annexure 9

LETTER OF GUARANTEE

WHEREAS Ghani Khan Choudhury Institute of Engineering and Technology, Malda (Buyer) have invited Tenders vide Tender No..... Dt.for purchase of
AND WHEREAS the said tender document requires that any eligible successful tenderer (seller) wishing to supply the equipment /machinery etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of “**Assistant Registrar Ghani Khan Choudhury Institute of Engineering and Technology, Malda,**” in the form of DD for Rs and valid tillfrom the date of issue of Performance DD may be submitted within **30 (Thirty) days** from the date of acceptance as a successful bidder.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this bank shall pay to Ghani Khan Choudhury Institute of Engineering and Technology, Malda on demand and without protest or demur Rs (Rupees.....).

This bank further agrees that the decision of Ghani Khan Choudhury Institute of Engineering and Technology, Malda (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, (name of the bank & branch) hereby further agree that the guarantee herein contained shall not be affected by any change in the constitution of the Tenderer (Seller) and/ or Ghani Khan Choudhury Institute of Engineering and Technology, Malda (Buyer).

Notwithstanding anything contained herein:

1. Our liability under this DD shall not exceed Rs. (Indian Rupees only).
2. This DD shall be valid up to(date) and

We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if Institute serve upon us a written claim or demand on or before(date).

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at situated at (Address of local branch).

Yours truly, Signature and seal of the guarantor:

Name of Bank:

Address:

Date:

Instruction to Bank: Bank should note that on expiry of Guarantee Period, the Original Guarantee will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.

Annexure 10
COMPLIANCE REPORT

Tender ID & Date:

Name of the Firm:

Sl.	Item	Technical Specification	Whether complied or not (Yes/No)	Remarks
1.				
2.				
3.				
4.				

Signature of Bidder with seal

Annexure 11

CHECK LIST

(Please put this annexure at the top of the tender document)

Tender ID & Date:

Name of the Firm:

Sl.	Document to be submitted	Submitted (Yes/No)	Remarks
1.			

Signature of Bidder with seal