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P. D.Hills
29/07/2022

TENDER NOTICE No: SFST/ET-1/2021-22

Date: 29/07/2022

NOTICE INVITING TENDER

(Tender No. SFST/ET-1/2021-22)

The Registrar, Mahatma Gandhi University, Kottayam invites online bid (technical and financial bid) for the supply and installation of Scientific Equipments for the project “Augmentation of Scientific Facilities for Technological Innovation in Food Science Research”-

Sl.No	EQUIPMENT	SPECIFICATIONS	Qty	Total price	EMD* 1%
1	Fume hood	Fume exhaust hood With 1.5 m exhaust piping Working table in cm: 120×60×60 External dimension in cm; 126×75×240 Hood CR sheet Outer surface & inner surface epoxy coating Working table covered with acid proof granite slab 20mm thick Provided gas/ air cock, additional power points, Front glass shutter provided with counter weight arrangement for easy vertical sliding Supply 415V 50Hz	1	80000	800
2	Dessicator	Color Transparent Material Borosilicate	1	5000	50

		Glass 3.3 Maximum Temperature Capacity 400degC Warranty 3 Years			
3	Bomb calorimeter	Digital Bomb calorimeter Automation Grade: Fully Automatic Material SS Temperature Control Range: 5-50deg C Temperature Uniformity: +/- 2 deg C outer container of Jacket is made up of copper and is chromium plated both inside and outside or S.S Warranty 3 years	1	100000	1000
4	Baking oven (OTG)	Capacity (Litre):30l Body Material Stainless Steel Power 1600 W Controlling mode: mechanical knob Warranty 3 years	1	7000	70
5	Muffle furnace	Rectangular electric furnace with light weight and fast heating system body made of thick mild steel sheet duly powder coated with iron angles. Working temperature of 1100 °C, Micro Processor based Digital Temperature Controller Cum Indicator (LED) fitted with thermal fuse and thermocouple Ceramic wool insulation. Chamber size : 6"x6"x9"/12" Warranty 3 years	1	140000	1400
6	Automatic fibre estimation	Two Place Economic Version Automatic Autosequencing PC Compatible crude Fibre Estimation System for hot extraction with built in heating and filtration. Warranty 3 years	1	55000	550

7	Vaccum packaging machines	<p>Table Top Mini Vacuum Packaging Machine Vacuum Chamber size: 365 Width x 375 Length x 80 mm Height. Over all Size: 515 x 490 x 350 Construction: Complete SS 304. Lid: Transparent flat Acrylic. Vacuum Pump: 8 cum/133LPM Gas: Optional with 4 nozzles. Vacuum monitoring & control: German, dial gauge & vacuum sensor optional. Electrical consumption: Maximum 1 KW, can be operated on domestic connection. Packing cycle: 1 to 2 Cycles/ minute depending upon the product to vacuum packed. Winner special: Maintenance free Vacuum actuator for lifting sealing bars. Fiber glass sealing bars for short circuit free. Warranty 3 years</p>	1	55000	550
8	Infrared moisture analyser	<p>50g capacity 0.001g Accuracy 100mm dia Pan Size, Auto External Calibratiion Heating profile : Infrared halogen Dry range 0.01 % to 100% Last 5 sample saving facility Auto & Manual mode Temperature range-40 to 199° Warranty 3 years</p>	1	60000	600
9	Viscometer	<p>Digital Rotational Viscometer Big Ultra Bright Backlight LCD Display</p>	1	285000	2850

		<p>Direct reading on display Auto Range Function Temperature Display Selected speed : 0.3 to 100 Measuring range: 20-2,00,0000 No of standard Spindle 4 spindle Number of speed increment 18 speed Spindles are stainless steel warranty 3 years</p>			
10	Abbe refractometer	<p>Single phase Digital display LCD Frequency 50Hz Measuring range : 1.3000 – 1.7000 Warranty 3 years</p>	1	50000	500
11	Lactometer	<p>Usage/Application Milk Purity Test Material Borosilicate Glass Shape Round Warranty 3 years</p>	4	320	3
12	Can sealing machine	<p>Usage/Application For Cap Sealing Automation Grade Automatic Capacity 40 CPM Driven Type Electric Voltage 220 V Height Of Conveyor 2 feet Material Stainless Steel (Body) Cap Diameter 40mm No. Of Heads 1 Frequency 50 Hz Phase Single Phase Warranty 3 years</p>	1	58000	580
13	Gluten testing device	<p>Machine Type Display reader Weight 200 Gm Material Plastic Usage/Application Laboratory Use Parameters Provides quantitative, semi-quantitative & qualitative results Voltage 230 V Frequency 50 Hz Display Size Analog Features Easy to use reader for standard lateral flow assays</p>	1	15000	150

		Warranty 3 years			
14	Fruit juice dispenser	Frequency (Hz) 50/60 Hz Machine Type Semi-Automatic Material SS Voltage 220 V Warranty 3 years	1	30000	300
15	Hardness tester	Weight 72 kg Voltage 230 V Frequency 50 Hz Phase Single Phase Total Test Force 1kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50 kg Height of specimens 200MM Scale Least count 0.001MM Depth of Throat 135MM Optical Magnifications 70X Dimensions 540mmx280mmx850mm (L x W x H) Warranty 3 years	1	40000	400
16	Grain moisture meter	Calibration Automatic Measurement Range Moisture content 8-20% Temperature -10 to 55 Centigrade (14-131 D F) Resolution 0.1 Grains Type Paddy, Rice, Corn, Wheat Moisture Accuracy +/- 1% Operation Humidity 85% Display 4-digits 10mm LCD Power supply 4 x 1.5V AA batteries (not included) Meter Dimension Approx. 17.8cm(L) x 6.8cm(W) x 3.9cm(Thick) Probe Length Approx. 36.5cm Cable Length Approx 102cm Meter Weight Approx 280g (batteries not inserted) Probe and Cable weight Approx 260g Warranty 3 years	1	10000	100
17	Tearing strength tester	Capacity 200, 400, 800, 1600, 3200, 6400 gms Weight 15.2 kg	1	24500	245

		Accuracy 0.2% of Pendulum Capacity Dimensions 483 x 398 x 578 mm Software Available DAS, WinWedge Warranty 3 years			
18	Stiffness tester	Capacity: 0-7 kg/cm2, 0-21 kg/cm2, 0-35 kg/cm2 Display Digital Power Source Electric unit 10000 warranty 3 years	1	45000	450
19	Tray dryer	Double wall construction outer made of Mild Steel Sheet duly powder coated. The inner chamber made of Mild Steel Sheet, aluminium painted finish (heat resistant) with thick glass wool insulation, air inlet and exhaust for removal of moisturizer. The temperature is controlled by Micro Processor Based Digital Temperature Controller Cum Indicator (LED) Capacity 300 Kgs/Hrs Door equipped with Limit Switch to disconnect power supply to heaters when the door is opened. Driven Type Electric Operating Temperature 5° C to 250° C with accuracy of +/- 1° C Warranty 3 years	1	110000	1100
20	Fruit pulper	Capacity Baby Pulper Stages Single Automation Grade Semi- Automatic Electricity Phase Single Phase Motor 2 HP Material Stainless Steel Suitable for All Type Warranty 3 years	1	25000	250
21	Blender	Hand held 160 watts motor R.P.M. 12,000 on no load Power Consumption(Watt) 400 Watts Warranty 3 years	1	1700	17

22	Cooking range with oven	Number Of Burner 4 Burner Material Stainless Steel Shape Square Knob Material Bakelite Number Of Knob 5 Finishing: Chrome Finish Warranty 3 years	1	51000	510
23	Laboratory centrifuge	Voltage 220V Brushless DC motor Speed setting: 500 – 4500 RPM Lid lock safety Imbalance detection system Dimensions : 330 x 265 x 161 mm Max weight : 6 kg Max Speed 4500 rpm Rotor Capacity: 4x50 + 4x15 ml Warranty 3 years	1	44000	440
24	Water purifier	Electrical Purifier RO + UV, UF Function 60 Litres Purification Capacity, 10 - 15 Litres Storage Tank Table or counter top Hot & Cold water Dimensions : 380 (W) x 1140 (H) x 340 (D)	1	50000	500
25	Incubator	Double wall chambers inner made of SS/Alu and outer of Mild Steel sheet duly powder coated with 2.5" thick glass wool insulation. Chamber size : 450x450x600mm M working temperature ambient +5 °C to 80 °C with an accuracy of +/- 1 °C Temperature control : Thermostat	1	34000	340
26	Hot air oven	(THERMOSTATIC) double walled units Inner chamber made of S.S. and outer made of Mild Steel with Powder coating. Temperature Range - 50 °C to 200 °C Temperature Accuracy - + /	1	25000	250

		<p>– 1%</p> <p>Ventilations are placed on top of both sides to remove hot gases/fumes.</p> <p>Temp Display - LED Display</p> <p>Shelves - 2 – 4 Stainless steel shelves (Removable)</p> <p>Power Supply - 110 V / 220 V / 440 V</p> <p>Air Circulation - Forced air circulation</p> <p>Chamber size : 450x450x450 mm</p> <p>Warranty 3 years</p>			
27	Microscope	<p>Light source : Halogen</p> <p>Magnification : 10x, 40x & 100x</p> <p>Stage :135 x 140mm</p> <p>Material: Di-cast / PVC</p> <p>Binocular type</p>	1	39000	390
28	Desktop computer (for equipments)	<p>Intel Core I5 Processor or equivalent, 8GB RAM, 1 TB SATA HDD, 2GB graphics card, 18.5” LED monitor, keyboard, optical scroll mouse, ethernet connectivity, high quality headphone with mic, Licensed Windows 10 Professional or Linux (Latest) as per requirement, Licensed Antivirus, 3 year warranty + 2 year AMC</p>	3	60000	600

* EMD :Earnest Money Deposit

1.	Name of the Equipment / Work	Supply and installation of Scientific Equipments at School of Food Science and Technology
2.	Earnest Money Deposit (EMD)	Rs. 14,995/-
3.	Tender submission fee (TSF)	Rs. 2,200/- (Refer the following table)
4.	Period of Supply and Installation	Within 15 days
5.	Mode of Submission of Bid	Online
6.	Tender Documents	Can be downloaded from the website www.etenders.kerala.gov.in
7.	Last date and time of submission of tender by online	16/08/2022, 05.00 pm
8.	Date and time of opening of bid	19/08/2022, 10.30 am

General tender documents and tender schedule can be downloaded in A4 plain size paper, free of cost from the website www.etenders.kerala.gov.in.

TENDER SUBMISSION FEES

<u>VALUE OF TENDER (WORKS & SUPPLIES)</u>	<u>TENDER SUBMISSION FEES</u>
RS. 50000 OR LESS	RS. 300
RS. 50001 UPRO RS. 10.00 LAKH	0.2% OF COST. ROUND TO NEAREST 100. MIN. RS. 400. MAX. RS. 1500
MORE THAN RS.10.00 LAKH	0.15% OF COST. ROUND TO NEAREST 100. MAX. RS.25000

Documents to be submitted along with the Bid

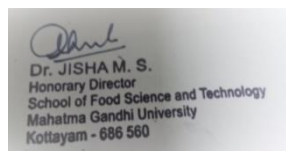
Sl. No.	Document
1.	Scanned copy of valid dealership certificate
2.	Scanned copy of duly filled e-payment form
3.	Scanned copy of other certificates required, if any, for tender acceptance
4.	Scanned copy of duly filled preliminary agreement in stamp paper of Rs. 200/-
5.	BOQ

Special Conditions

1. The quoted price should be inclusive of all taxes/ freight/installation etc.
2. **AMC conditions**, nearest servicing centers details, user reference and supporting catalogues should be provided (soft copies).
3. The delivery schedule payment terms & warranty/ guarantee etc. must be clearly indicated in the technical bid

The bids will be opened at the date and time specified. Further details can be had from the *School of Food Science and Technology*, (Contact Number :+91 9497664697) on all working days during working hours. The bidders are advised to submit their bid well in advance to avoid any kind of network issues. If relevant documents are not submitted within time, the tenders will not be considered. In case if a firm is supplying different types of instruments, then they should make use of the exemption while submitting EMD and Tender fees. They should only pay the amount corresponding to the concerned equipment. (EMD at the rate of 1% of the equipment price and Tender fees at the rate of 0.2 % upto 10 lakhs and 0.15% above 10 lakhs)

The undersigned reserves the right to reject any or all the tender without assigning any reason whatsoever.



Dr JISHA MS
Hon. DIRECTOR
SCHOOL OF FOOD SCIENCE &
TECHNOLOGY