

GUJARAT VIDYAPITH
ASHRAM ROAD, AHMEDABAD – 380014
Phone No: 079-40016200/ 27540746 Fax No: 079- 27542547
Website: www.gujaratvidyapith.org

Sr. No. of Tender: GV/7/2018 - 19
Date – 30/01/2019

Name of the Tender –Tender for Lab Equipments for Microbiology Department and B. Voc Department, Sadra, Dist – Gandhinagar

Gujarat Vidyapith invites tender through E-tendering for supply and installation of Lab Equipments for Microbiology Department and B.Voc Department, Sadra Dist – Gandhinagar

Last date and time to submit of Tender Documents (1)	Last Date and time for Submit the EMD and Hard copy for Technical bid	Date & Place of opening of the tender (Technical Bid)	Amount of EMD	Place of submission of Tender document	Opening of financial Bid
Date – 21/02/2019 Up to – 5-00 pm	Date:- 22/02/2019 Before – 4-00 p.m.	Date-23/02/2019 At 12-00 pm. Committee room, Central Office, Gujarat Vidyapith, Ahmedabad - 14	Demand Draft of 2% of total price of quoted items. D.D. in favor of “Registrar, Gujarat Vidyapith”. (Refundable)	Central Office, Gujarat Vidyapith, Ahmedabad,	<u>Date-</u> <u>26-02-2019</u> (tentative)

GENERAL TERMS & CONDITIONS OF THE TENDER

The vendors should upload their tender upto **21/02/2019** before **5:00 PM** and submit hardcopy of the Technical bid with D.D. (2% of quoted price) in sealed cover upto **22-02-2019** before 4:00 p.m. at the Central Office of the Gujarat Vidyapith Ahmedabad. Also mention "TENDER FOR LAB EQUIPMENTS FOR MICROBIOLOGY DEPARTMENT AND B.VOC DEPARTMENT" on the cover.

- (1) The interested bidders **must** give their rate through E-tendering Website- **www.nprocure.com**
- (2) The Financial bid of only those bidders who successfully qualifying in technical criteria, under technical bid will be opened.
- (3) Hard copy of the tender **must** also contain original copy of Tender documents duly signed and stamped in token of having read and understood all terms and conditions and implications thereof. It should also contain Technical Bid along with copy of all required document and proof.
- (4) Tender document received late / incomplete without requisite papers and Demand Draft for EMD shall be summarily rejected.
- (5) The Tender document and other document (as per Annexure-II) signed and stamped by bidder are submitted with technical bid.
- (6) It is mandatory to indicate the full name, make/ brand, model number, and detailed specifications of the **instruments** quoted by them, (in addition, a brochure of product information may also be attached along with diagrams figures of picture of the equipment.) Bidders also have to indicate clearly the Name, Address, Website / E-mail address if any and all Contact number.
- (7) **Terms of Payment**
100% total order value will be released on the satisfactory report of Installation / verification / inspection of the material by department against the bill.
- (8) Vendor can't withdraw their tender after the tender is opened. If a bidder does so, such bidder shall be considered ineligible or black listed for in future also. The amount of the EMD will be forfeited.
- (9) Any litigation will be subject to the jurisdiction of the appropriate court at Ahmedabad only.
- (10) Guarantee / Warranty period should mention clearly.
- (11) Maximum rebate / discount to the Educational Institution, if any, should mention.
- (12) Gujarat Vidyapith does not pledge himself to accept the lowest tender and reserves the right to accept whole or part of the tender or portion of the quantity offered.

- (13) Any other document as required by the Gujarat Vidyapith shall have to be produced within 3 (three) days.
- (14) Authorization: The authorization certificate should be attached by the bidder that “the bidder is an authorized agent/ dealer of manufacturer”.
- (15) Bidder will have to give an undertaking that all terms and conditions of the tender are acceptable.
- (16) Details of service centers in Gujarat/Ahmedabad should be mentioned.
- (17) Successful bidder will have to supply and install the quoted item with particular model within 20 days from the date of issuing purchase order. The Financial bid will be evaluated on **Item Wise Cost** as quoted in the **financial bid. The rate must be quoted including all taxes and FOR** at Microbiology Department and B.Voc Department, Sadra, Dist – Gandhinagar
- (18) The EMD of the successful bidder will be paid after one year of the successful installation. The EMD of the other bidders will be returned within **20 (Twenty)** days after finalization of the tender process.
- (19) Gujarat Vidyapith has **duty exemption** as recommended by GOI for R&D purpose. This certificate can be procured by the bidder from head office At – Ashram Road, Ahmedabad.

Signature of the bidder/agency

Name of the bidder/agency

Seal of the bidder/agency

Place:

Date:

Annexure - I

UNDERTAKING

1. I/we undersigned certify that I have gone through the terms and conditions mentioned in the tender document and undertake to comply with them.
2. I/we give the rights to Gujarat Vidyapith to forfeit the earnest money deposited by me/us if any delay occurs on my / our part or have failed to supply the equipments within the stipulated time or the equipments of desired quality.
3. There is no vigilance /CBI case or court case pending against the Firm.
4. The Firm has not been blacklisted by any Govt. Dept./ Institute/ University in the past.

Signature of the bidder _____

Full Name _____

Designation _____

Seal of the bidder

Place:
Date:

GUJARAT VIDYAPITH
NR. INCOMETAX OFFICE, ASHRAM ROAD, AHMEDABAD - 380014
TECHNICAL BID
Details of the Bidder

Name of the Tender																				

Firm type																				
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(Like proprietorship / Partnership / Company / others)

Address

Contact No :

Land line No.																				
Fax No.																				
Mobile No.																				
Email address																				

PAN No. _____ **GST No.** _____

• Please attach the copy of the GST No with the tender. Client’s List (Please attach separate sheet showing the client list of Universities / Govt. & semi Govt. offices name and addresses of the department where supply the prescribe the tender item with evidence (P.O / certificate of experience)

Sr. No.	Name of Uni/ Govt. & semi Govt office	Year of Supply	<u>Name of equipment</u>	<u>cost of equipment</u>

Signature of the bidder/agency

Name of the bidder/agency

Seal of the bidder/agency

Place:

GUJARAT VIDYAPITH
ASHRAM ROAD, AHMEDABAD – 380014
Phone No.: 40016200 / 27540746 Fax No : 27542547
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Tender No.: GV/7/2018-19

Name of the Tender –Tender for Lab Equipments for Microbiology Department and B.Voc Department, Sadra Dist – Gandhinagar

TECHNICAL BID

SR. NO.	NAME AND SPECIFICATION OF INSTRUMENTS	QUANTITY	Specification/ Configuration of equipment quoted by the bidder is fulfilling the requirement Or not (Pls. <input type="checkbox"/> , <input type="checkbox"/> before specification
1	<p><u>ORBITAL SHAKER WITH TEMPERATURE CONTROLLER (With Voltage servo stabilizer- 5KVA)</u></p> <ul style="list-style-type: none"> • Brushless Induction Motor with variable frequency drive suitable for continuous operation • Step less variable frequency drive ensures gentle shaking start and maintains set speed • Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber • Counter balanced mechanism for high stability in uneven load of different sized flasks • Microprocessor controller with 4" LCD display for display of shaking speed & temperature • Time delay for compressor switch on • Overload cut off relay for compressor • Temperature range accuracy: 5°C to 60°C, ± 0.5°C • Internal Volume (Liters): 215 • Platform Size: 580mm x 600mm • Shaking platform: 500ml x 24, • Shaking Speed range (RPM): 20 to 250 • Shaking Amplitude: 25 mm • Internal Dimensions W x D x H (mm): 660 x 765 x 650 • External Dimensions W x D x H (mm): 800 x 1150 x 1300 • Temperature control: Microprocessor with PT-100 sensor • Display: 4" LCD Screen, Large size Display for ease of reading • Power Failure Alarm: Audio Visual Alarm 	1	

	<ul style="list-style-type: none"> • Door Open Alarm: Audio Alarm in case door open for over one minute • Temperature Variation Alarm: Set Temperature $\pm 2^{\circ}\text{C}$, Audio Visual Alarm • Illumination: 8 Watts Fluorescent Lamp • Internal Body Material: Stainless Steel - 304 grade • External Body Material: Powder Coated CRCA Steel • Insulation (CFC free polyurethane foam): 70 mm minimum for Body & 80 mm for Door • Noise Level: Less than 65 db • Power: 220-240 volts, 50Hz, Single Phase • <u>With Voltage servo stabilizer: 5 KVA</u>(Capacity: 5 KVA (15 Amp.), Features: With latest electronic solid state technology, Input: 170 V to 270 VAC, Single phase. Output: 220V $\pm 2\%$ VAC, Single phase, Frequency: 50Hz. Facility: 0 -300 Voltmeter, M.C.B., O/P Socket, 5/15 Amp.- 2 Nos. I/P 3 Core • cable, ON-LOW-HIGH-TRIP INDICATION, Fine Adj. O/P Pot, Dimmer make- Anex/Amsa) • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
2	<p><u>ORBITAL SHAKER WITH TEMPERATURE CONTROLLER (With Voltage servo stabilizer- 2KVA)</u></p> <ul style="list-style-type: none"> • Brushless Induction Motor with variable frequency drive suitable for continuous operation • Step less variable frequency drive ensures gentle shaking start and maintains set speed • Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber • Counter balanced mechanism for high stability in uneven load of different sized flasks • Microprocessor controller with 4" LCD display for display of shaking speed & temperature • Time delay for compressor switch on • Overload cut off relay for compressor • Temperature range accuracy: 5°C above ambient to 60°C, $\pm 0.5^{\circ}\text{C}$ • Internal Volume (Liters): 215 • Platform Size: 580mm x 600mm • Shaking platform: 500ml x 24, • Shaking Speed range (RPM): 20 to 250 • Shaking Amplitude: 25 mm • Internal Dimensions W x D x H (mm): 660 x 765 x 650 • External Dimensions W x D x H (mm): 800 x 1150 x 1300 	1	

	<ul style="list-style-type: none"> • Temperature control: Microprocessor with PT-100 sensor • Display: 4" LCD Screen, Large size Display for ease of reading • Power Failure Alarm: Audio Visual Alarm • Door Open Alarm: Audio Alarm in case door open for over one minute • Temperature Variation Alarm: Set Temperature $\pm 2^{\circ}\text{C}$, Audio Visual Alarm • Illumination: 8 Watts Fluorescent Lamp • Internal Body Material: Stainless Steel - 304 grade • External Body Material: Powder Coated CRCA Steel • Insulation (CFC free polyurethane foam): 70 mm minimum for Body & 80 mm for Door • Noise Level: Less than 65 db • Power: 220-240 volts, 50Hz, Single Phase • With Voltage servo stabilizer: 2 KVA(Capacity: 2 KVA (15 Amp.), Features: With latest electronic solid state technology, Input: 170 V to 270 VAC, Single phase. Output: 220V $\pm 2\%$ VAC, Single phase, Frequency: 50Hz. Facility: 0 -300 Voltmeter, M.C.B., O/P Socket, 5/15 Amp.- 2 Nos. I/P 3 Core cable, ON-LOW-HIGH-TRIP INDICATION, Fine Adj. O/P Pot, Dimmer make- Anex/Amsa) • Warranty and free service for One years Training for Users - Onsite to our department laboratory 		
3	<p><u>BOD INCUBATOR (With Voltage servo stabilizer - 2KVA)</u></p> <ul style="list-style-type: none"> • It is specially designed for incubation of Biochemical Oxygen Demand for Water & Sewage, environmental study etc. • Inner Temp .Range: 5°C to 60 °C. Accuracy : $\pm 1^{\circ}\text{C}$ • Working size (Internal chamber): 6 Cu.Ft. (165 L) • High quality Emerson compressor • Temperature control: PPI make, PID microprocessor controller cum indicator with 0.1 Resolution for set and process value, with temperature accuracy $\pm 0.5-1.0^{\circ}\text{C}$, thermostatic • Double walled, inner chamber S.S. 304 and outer chamber M.S. finished with epoxy powder coated. • Mechanical convection systems (motorized blower) ensure even air distribution within the chamber. • High grade insulation between the chamber minimize the temperature exchange. • A full length inner glass door for easy visibility without disturbing temperature. • Adjustable S.S shelves -3 shelves 	1	

	<ul style="list-style-type: none"> • <u>With Voltage servo stabilizer- 2KVA</u> (Capacity: 2 KVA, Features: With latest electronic solid state technology, Input: 170 V to 270 VAC, Single phase. Output: 220V ± 2% VAC, Single phase, Facility: 0 -300 Voltmeter, M.C.B., O/P Socket, 5/15 Amp.- 2 Nos. I/P 3 Core cable, ON-LOW-HIGH-TRIP INDICATION, Fine Adj. O/P Pot, Dimmer make- Anex/Amsa) • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
4	<p><u>DIGITAL BALANCE: 0.001 g</u></p> <ul style="list-style-type: none"> • With draft shield cover, Brilliant backlit LCD Display, user selectable filter, stability indicator, auto zero • Maximum Load Capacity: : 320 g • Readability/ Resolution: 0.001 g • Repeatability: 0.001 g • Linearity: 0.0015 g • Pan size(dia.) : 110 mm • Response time: < 3 sec. • Calibration: Single touch key External calibration • Multiple function: Weighing, Counting, Percentage, Etc. • Measurement mode: In multi standard unit • Strong anti-shaking monolithic electromagnetic for high accuracy • With USB port • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	2	
5	<p><u>DEEP FREEZER, VERTICAL TYPE (With Voltage servo stabilizer- 2KVA)</u></p> <ul style="list-style-type: none"> • Vertical Type Deep Freeze, Two compartment and separate door (two door), with adjustable shelves. • Temperature: -10°C to +6°C (±2 °C) • Storage Capacity: 450 to 500 Ltr. • Compressor: EMERSON Make, KCN 444 • Body: Outer & Inner Pre Coated GI sheet thickness 0.55mm, Inner Bottom S.S 304 thicknesses 0.55, Top & Door S.S Grade 430 • Outer Size: 80" X 30" X 30"(H X W X D), Inner Size - 70" X 24" X 24"(H X W X D) • Power Cons/Day: 6.0(approx) • Power Supply: 230 Volts, 50 Hz, 1 Phase • <u>With Voltage servo stabilizer- 2KVA</u> (Capacity: 2 KVA, Features: With latest electronic solid state 	1	

	<p>technology, Input: 170 V to 270 VAC, Single phase. Output: 220V ± 2% VAC, Single phase, Facility: 0 -300 Voltmeter, M.C.B., O/P Socket, 5/15 Amp.- 2 Nos. I/P 3 Core cable, ON-LOW-HIGH-TRIP INDICATION, Fine Adj. O/P Pot, Dimmer make- Anex/Amsa)</p> <ul style="list-style-type: none"> • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
6	<p><u>COOLING MICO CENTRIFUGE (Max. speed 16000rpm)</u> With Voltage servo stabilizer- 2KVA</p> <ul style="list-style-type: none"> • Maximum speed: 16000 rpm, 16600 rcf. • Maximum capacity: 40 ml • Precise temperature control: Upto -8°C • Noise: upto 60dB • Pre-cooling function • Fast spin feature • Brushless induction motor with alpha numeric LCD display • Self diagnosis of errors • Parameter setting through easy to use bidirectional encoder • Inverter fault detection with auto shutdown • CFC free refrigerant system • 24 programme memory • With accelerations and deceleration profile • Choice of rpm / rcf setting in display • Digital countdown timer 0-99 minutes • Last cell parameter recall • Automatic rotor identification • Safety lid interlock to prevent lid opening during centrifugation • Imbalance detection and stop • Motor overload protection • Gas hinge to prevent falling of door • Emergency lid lock release • Rotors (Angle Rotors): <ul style="list-style-type: none"> (1) 24 x 1.5ml (maximum speed: 11850rpm, 12715 rcf) (2) 10 x 2 ml (maximum speed: 16000rpm, 16600 rcf) • Supply: 220-240 Volts, 50Hz, Single phase • <u>With Voltage servo stabilizer- 2KVA</u> (Capacity: 2 KVA, Features: With latest electronic solid state technology, Input: 170 V to 270 VAC, Single phase. Output: 220V ± 2% VAC, Single phase, Facility: 0 -300 Voltmeter, M.C.B., O/P Socket, 5/15 Amp.- 2 Nos. I/P 3 Core cable, ON-LOW-HIGH-TRIP INDICATION, 	1	

	<p>Fine Adj. O/P Pot, Dimmer make- Anex/Amsa)</p> <ul style="list-style-type: none"> • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
7	<p><u>CENTRIFUGE MACHINE</u></p> <ul style="list-style-type: none"> • Stepless speed regulator with zero start interlock • Digital speed indicator • Dynamic break • 0-99 minute digital countdown timer • Imbalance detector with cutoff • Safety lid interlock to prevent cover opening during centrifugation • Maximum Speed: 17300 rpm • Maximum RCF: 27440 • Maximum capacity: 400ml • Rotors: Angular type, 8 tubes x 50 ml (10800rpm) • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	1	
8	<p><u>BIONOCULAR MICROSCOPE</u></p> <p><u>Specification:</u></p> <ul style="list-style-type: none"> • Stand: Sturdy stand with anti rust material • Viewing Head: Binocular tube, sliding 30° inclined, 360° rotatable • Eye Piece: Wide Field eyepiece WF 10X, FOV 18mm • Nose piece: Quadruple nosepiece (Ball bearing type) • Objective: VST Series semi Plan Din objective 4X, 10X, 40X, 100X, Crisp image quality • Stage: Graduated Mechanical stage, with cross travel 90(X) x 65mm (Y) on ball bearing with co-axial controls • Condenser: Moveable ABBE Condenser, centerable, NA 1.25 with aspheric lens, Iris Diaphragm • Swing In and swing out fitted holder • Focusing Module: CO Axial Coarse & fine focusing mechanism, with tension control ring. Ergonomically designed for easy grip, esp. for tension regulator. • Illumination: Illumination system 6V-20W Halogen with intensity control regulator. OR Illumination System LED 	5	

	<p>3.3W 3V with intensity control regulator.</p> <ul style="list-style-type: none"> • Power: Universal power supply 110V-240C, CE approved • Standard Accessories: Packed in moulded Styrofoam box with User Manual, Vinyl dust cover, Cleaning Cloth, One unit Fuse <ul style="list-style-type: none"> • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
9	<p>RESEARCH BIONOCULAR MICROSCOPE WITH INFINITY CORRECTED OPTICS</p> <p><u>Specification:</u></p> <ul style="list-style-type: none"> • Stand: Sturdy stand with anti rust material • Viewing Head: Binocular tube, Siedentopf 30° inclined, • Eye Piece: Wide Field eyepiece WF 10X, FOV 22mm with eye guard • Nose piece: Quadruple nosepiece (Ball bearing smooth motion) • Objective: QVST Series Infinity Corrected Plan Din objective 4X, 10X, 40X, 100X, high contrast excellent image quality • Stage: Graduated Mechanical stage, with cross travel 90(X) x 65mm (Y) on ball bearing with co-axial controls • Condenser: Substage Moveable ABBE Condenser, centerable, NA 1.25 with aspheric lens, Iris Diaphragm, with superior paraboloid condenser • Focusing Module: CO Axial Coarse & fine focusing mechanism, with tension control ring. Ergonomically designed for easy grip, esp. for tension control. • Illumination System LED 3.3W 3V with intensity control regulator. • Power: Universal power supply 110V-240C, CE approved • Standard Accessories: Packed in moulded Styrofoam box with User Manual, Vinyl dust cover, Cleaning Cloth, One unit Fuse <ul style="list-style-type: none"> • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	2	
10	<p><u>WATER DISTILLATION UNIT (water still) (Manestry type)</u></p> <ul style="list-style-type: none"> • Capacity: 10-12 L per hour • Made up of completely high gauge S.S. 304 and argon welded • Manestry type, Wall mounting, Wall mounting metal clamp • Open type condenser for easy cleaning 	2	

	<ul style="list-style-type: none"> • It should provide continuous supply of Pyrogen free distilled water. • Heating: 1500Watt x 3 coil, with separate heavy duty cable. • With Electronic Automatic Cut off system for failure of water • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
11	<p><u>WATER BATH CIRCULATING, SEROLOGICAL TYPE</u> <u>(Size: 20”X12”X12”)</u></p> <ul style="list-style-type: none"> • Chamber (Inside working or completely utilizable space, exclusive heating device space): size is 20” x 12” x 12” (WxLxH), with perforated flat bottom. • Water circulation: With water circulating motor-1400 rpm • Complete S.S. (Inner S.S. & outer S.S.), Made up of completely high gauge S.S 304, Double walled in construction, Highly insulated between two walls • Temperature control: PPI make, PID microprocessor controller cum indicator with 0.1 Resolution for set and process value, with temperature accuracy $\pm 0.5-1.0^{\circ}\text{C}$, thermostatic. • Temperature above ambient to 99°C • Long lasting kettle element • With leak proof S.S. cover with heat proof handles, perforated a hole to insert thermometer to manual validate temperature. • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	2	
12	<p><u>PERISTALTIC PUMP</u></p> <ul style="list-style-type: none"> • Variable speed drive, Give contamination free pumping, Positive displacement, User friendly, Accurate – repeatable flow rates, 24 X 7 continuous operation • Flow rate: 0.2 to 280 ml/min, • Accuracy (%) ± 1.5 • RPM: 1 to 200 • Tube size (bore): 1 to 4 mm, wall thickness: 1.5 mm • Discharge pressure: 2 bar • Discharge height: upo 10 ft • Instant star/stop and reverse facility • Head type: Engineering plastic • Motor: Stepper, • Motor torque: 10kg 	1	

	<ul style="list-style-type: none"> • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
13	<p><u>REFRIGERATOR- DOUBLE DOOR (FREEZE)</u></p> <ul style="list-style-type: none"> • Double door, Capacity: 320 to 350 L, • Digital Inventor technology, • 3 or 4 star • Convertible five modes • Twin cooling plus • Connect Inverter • Power Freeze & Power Cool • Twist Ice Pack • Door Alarm • Toughened Glass Shelves • Stabilizer free operation • LED light • With high guarantee on compressor (Approx. 8-10 years). • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	1	
14	<p><u>SEALER- 20 MM CRIMPER STAINLESS STEEL MANUAL (Fully SS body)</u></p>	1	
15	<p><u>DESEALER – 20 MM DE-CRIMPER STAINLESS STEEL MANUAL (Fully SS body)</u></p>	1	
16	<p><u>MIXER GRINDER</u></p> <ul style="list-style-type: none"> • Power: 750 watts, with 30 minute rating • Voltage: 230 V, • Number of jar: 3 jar (1.5 L blending, 1 L grinding, 0.4 L grinding) with durability and leakproof • Number of Blade: 5 razor sharp blades made from S.S. with multifunction like mincing and chopping • Speed: 18000 rpm • 3-speed control knob that comes with 90 degrees range of movement, Incher or pulse feature • An overload protection feature • Cord winding facility allows for easy storage of the power cord • Motor warranty: 3-5 years • Product warranty: 1.5 -2 years • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	1	

<p>17</p>	<p><u>MICROWAVE OVEN –Convection type: 28L</u></p> <ul style="list-style-type: none"> • Type: Convection, Capacity: 28 L • Control method: Tact • Cavity material: Ceramic Enamel • Door type: Handle • Turntable Size: 318mm • Display Type: LED- Bar • Convection heater: Quartz, Grill Heater: Sheath • Power/ Rating: Power source: 230V/ 50Hz, Power level:6, Power Consumption (Microwave): 1400 watts, Power Consumption (Grill): 1500 watts, Power Consumption (Convection): 2100 watts, Power consumption (max): 2900 watts • Auto programme, child lock, Various cooking mode, Defrost, Auto programme, slim fry, deodorization • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	<p>2</p>	
<p>18</p>	<p>Laminar Air Flow (Horizontal)</p> <ul style="list-style-type: none"> • Internal Size / Working area (W x D x H) : 3 x 2 x 2 Ft • Horizontal Air Flow • Display: LCD • Fully Automatic microprocessor based: for On/OFF for Blower, UV Light, Fluorescent light, and mains and warns for any deviation • Filter type: Single Full Size HEPA filter with 99.97 – 99.99% Efficiency Prefilter: Two • Front Glass: Motorized • Working Area: Class 100 	<p>2</p>	

	<ul style="list-style-type: none"> • Particle retention:0.3 micron • Cleanliness: Class 100 • Illumination: 750-800LUX • Velocity: 90 FPM \pm 20%, with High quality air velocity sensor • Work Table : SS 304 • With a pressure manometer to indicate air pressure • Air flow velocity: 0.3 – 0.5 m/s • Construction: Outer Body MS duly powder coated, Inner Work Table is made of SS 304, front door motorized glass door • Dynamically balanced, direct drive highly efficient centrifugal blower assembly • Noise level should not be high than 65 decibel on scale and vibration less than 2.5micrometet • Power: 230V AC, single phase, 50Hz • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
19	<p>Biosystem Gassing Manifold system (With conditioning of older Biosystem Gassing Manifold system)</p> <ul style="list-style-type: none"> • For Cultivation of Anaerobic microorganisms • It must have facility to mix Hydrogen, Nitrogen and Carbon dioxide gas in required proportion and have facilities to purge mixture of two or three or in pure form of any of the above gas (Source - Industrial gas cylinder) in pure form to six different ports – each port can be control separately. • Inlet port of Gas: For Hydrogen, Nitrogen, Carbon Dioxide • Inlet gas control through high accurate Rotameter for each individual gas. • Rotameter: (1) Hydrogen- 900-9000 mL/min 	1	

	<p>(2) Carbon Diioxide: 230- 2300 mL/min</p> <p>(3) Nitrogen- 780-7800 mL/min</p> <ul style="list-style-type: none"> • It have facility to mix each gases in require proportion which are control through rotameter in leakproff copper pipe (With pressure guage) and with main distribution valve • Vacuum release valve • Six distribution valve with separate control and separate outlet • All the tubing in the housing of instrument should be leak proof and made of high grade non reactive copper. • Price of new instruments must include conditioning of exiting system • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
20	<p>COD Digestion Apparatus</p> <ul style="list-style-type: none"> • Solid block heated unit with provision for samples to be digested at a time in 38 mm dia reaction tube vessels • Heating temperature: 150°C ± 1°C • Number of Blade: 5 razor sharp blades made from S.S. with multifunction like mincing and chopping • For 12 tube (38mm dia) digestion • With 12 tubes + 12 extra tube for digestion • Outer body MS with powder coating, with standard insulation • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	1	
21	<p>Multi function Laser Jet Printer</p> <ul style="list-style-type: none"> • Black and white printer • Function: Print, Scan, copy • SKU : CB376A • Print speed: 11 -20 • Print resolution: Upto 600 x 600 dpi • Printing support: A4, A5, B5, C5, C6, DL, Postcard • Copy speed: Upto 14 ppm (black normal quality A4) • Copy reduce /enlarge setting: 25 to 400% • Multi copy function 	1	

	<ul style="list-style-type: none"> • Port: 1 Hi-speed USB • Connectivity standard: Hi-speed USB (Compatible with USB 2.0 specification) • Display: 2-inch LCD, Text • Paper tray: 2 • Processor speed: 230MHz • Scan Resolution: Upto 1200 x 1200 dpi • Enhance scanning resolution: Upto 19200 dpi • Scan file format: JPEG, TIFF, PDF, GIF, BMP • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
22	AIR PURIFIER <ul style="list-style-type: none"> • Wall mount, can be operated by remote control • Air purification system by discharge ozone gas • It can deodorize, eliminate bacteria, smoke, etc. from room atmosphere • Having automated air purification system • It must have ozone discharge level regulation • It has three Programmed cycle modes and timing modes. • Easy to clean and user friendly • Rated power dissipation: 9.6 W, • Ozone output: 150 mg/h • Airflow: 2.8Km/h • It can be operated under 0°C to 40°C environmental temperature. • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	4	
23	Digital gas flow meter <ul style="list-style-type: none"> • Digital Gas Flow meter Range: 1 to 500 mL/min with least count of 0.1mL/min. (Auto range) • Direct Digital Read Out • With high accuracy. • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	2	
24	Hot Plate <ul style="list-style-type: none"> • Size: 8” Dia , Round • Fully SS Body and top with heating coil fitted in a GROVED type for maximum and uniform temperature on a top 	1	

	<ul style="list-style-type: none"> • Temperature controlled: Microprocessor PID controller-PPI make • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
25	<p>HUMIDIFIER Evopartion capacity- 3 kg/h Power: 300Watts With automatic water level controller Humidity control: Upto 95% Display: Digital Voltage: 230V, 50Hz Body: S.S. Powder coated Working temperature: 5 to 40°C</p> <ul style="list-style-type: none"> • Air Volume: 350 M³/h • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	1	
26	<p><u>Motorized Sieve Shaker Table Model (For 8" Test sieve)</u></p> <ul style="list-style-type: none"> • Soundless , Vibration Type, With heavy base/plate • Accomodate 6 test sieves of 8" • Adjustable timer digital controller 999 minutes • Variable speed controller/regulator, digital display for rpm • With test sieves, Brass made of Different size as below of 8": 2.36mm, 1.70mm, 1.0mm, 850micron, 600 micron, 300 micron,180 micron,150 micron,75 micron • With lid and pan set • Power: 220V A.C., 50Hz, Single phase • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	1	
27	<p><u>Gerber Centrifuge</u></p> <ul style="list-style-type: none"> • To determine fat and fat extraction, solubility determination • Timer: 0- 60min • Automatic brake • Heating with variable temperature setting (600W) • With Heating 600W adjustable upto 65°C • Microprocessor control with digital reading • Cover lock • With rotor to accommodate 12 butyrometers • Power: 220- 240 V/ 50Hz 	1	

	<ul style="list-style-type: none"> • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 		
28	<p><u>Anemometer (Digital Anemometer)</u> Portable anemometer with digital readability and the convenience of a remote sensor separately.</p> <ul style="list-style-type: none"> • Multi-functions for air flow measurement m/s, km/h, ft/min, knots. • Air velocity sensor structure: Low-friction ball bearing design allows free vane movement, resulting in accuracy at both high and low velocities. • Sensitive balance vane wheel • Convenient twisted vane arms, • Compact housing cabinet, ABS plastic housing • Built in low battery indicator • large LCD display 18mm, – read out even in bright ambient light conditions • Data holding function • Operating condition: temperature-0 to 50°C, Humidity-less than 80%RH • Air velocity sensor structure • Temperature function: Naked bead type K thermocouple probe • Power consumption: DC 9V/ Battery • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	1	
29	<p><u>Digital Penetrometer</u></p> <ul style="list-style-type: none"> • Standard penetrometer electronic digital timer complete with cone and needle • With vertical pillar mounted on a base with leveling screw • Dial is graduated in 400, 1/10 and millimeter subdivision and needle pointer against figure makes easy reading (penetrate vertically in a duration of 5 sec. at temperature 25°C) • With bitumen penetration needle and wight 50g, 100g and two sample container • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	1	

<p>30</p>	<p><u>Research centrifuge</u></p> <ul style="list-style-type: none"> • Stepless speed regulator with zero start interlock, • Digital speed indicator • Dynamic break • 0-99 minutes digital countdown timer • Imbalance detector with cutoff • Safety lid interlock to prevent cover opening during centrifugation • Max. Speed: 17300rpm • Max RCF: 27440g • Max Tube size: 100 mL • Max capacity: 400 mL • With: 8 x 50ml angular rotor, 10800rpm, 13430g RCF • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	<p>1</p>	
<p>31</p>	<p><u>Rotary Shaking machine (Table top model)</u></p> <ul style="list-style-type: none"> • Fabricated from heavy M.S. • Brushless induction drive motor with VFD speed control • 4 inch Large display • Top Platform size: 24" x 24" • Holding Flask Capacity: with 36 Flask of 250mL (Lotus type clamps with spring) • Universal platform with rounded corners to accommodate interchangeable clamps of assorted size • Elegant plastic front • Top platform Stainless steel • Variable speed control from 20 -300 rpm • Shaking amplitude 40mm • Power: single phase, 230V • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	<p>1</p>	
<p>32</p>	<p><u>Dough Kneader: 2kg</u> Machine Body: Stainless steel, Bowl: SS 304, Rotor type : S.S., Gear Cover : S.S.</p> <ul style="list-style-type: none"> • Atta making speed: 2kg/ 4 min. • Machine Motor: 0.25 HP • Design type: Standard • Warranty and free service for One years 	<p>1</p>	

	<ul style="list-style-type: none"> • Training for Users - Onsite to our department laboratory 		
33	<u>Hand Rafractometer</u> <ul style="list-style-type: none"> • Pocket refractometer • 0-32% • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	1	
34	<u>AUTOCLAVE WITH BASKET (VERTICAL)</u> <ul style="list-style-type: none"> • Operational: 15 lbs Pressure per square inch • Working Inner chamber Size: 35 x 55 cm (Dia x Depth) • Made of stainless steel (304) inner & outer, including flange fly screw (S.S. 304), argon welded thick plate • Lid is equipped with pressure gauge, Safety valve, manual exhaust With basket • Fully automatic with Digital temperature indicator cum controller - PPI make, PID microprocessor controller with timer, Electronic Water level cut of system with alarm • Specially designed heater reduces power consumption. • With foot lifting arrangement • The autoclaves supported with cast iron legs duly coated. • With SS Basket • Warranty and free service for One years • Training for Users - Onsite to our department laboratory 	1	

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