

### List of Instruments proposed for procurement for the year 2022-23

SN	Name of instrument	Specifications	Approx Cost (Rs)
1	Infra-red Thermometer	MT-16 Four digit back light LCD, measures from 50-8000C with all accessories	
2	Soil Thermometer	ST-923B Hand Held soil thermometer with high temperature alarm facility, auto power off, data hold, 50-3000C with all accessories	
3	Soil Moisture Meter	PLICM350 Overall length: 91.4cm, Probe diameter: 1.3cm, Weight (unpacked): 2.26kg	
4	Portable Soil Moisture Probe	HydraGO GroPoint Profile, Measurement range 7% to 42% of volumetric moisture content , Stevens hydra probe for measuring soil moisture, temperature, electrical conductivity etc.,	
5	Tensiometer	Standard SR Butyrate body, ceramic tip, neoprene stopper, for use in medium to heavy soils, includes a threaded replaceable tip as well as reservoir, air free gauge chamber and hermetically sealed IRRROMETER vacuum gauge with dual scale of centibars and kilopascals (0-100 cb [kpa] range)	
6	Core cutter apparatus/ Soil Core Sampler	For farm/laboratory purpose. Size : 10inch, 12inch, 14inch, 16inch, with hammer/dolly and rim.	
7	Bulk density kit	Model 0200 A core 57mm (2.25") in diameter, two wedge coring tips, driving hammer, core extractor, spanner and strap wrench for replacing coring tips, six cylinder caps, and five brass cylinders; one 60mm long, two 30mm long, and two 10mm long with carrying case, Weight: 11.45 Lbs (5.19 kgs)	
8	Gypsum Block (G-Block) with handheld meter	5201L15 Soil Moisture Block , 4.6m leads 0.07 kg with handheld meter	
9	Pressure plate apparatus	Suitable for determination of pF-curves in the range pF2.0-4.2 (0.1-15 bar of suction) with all accessories.	
10	Leaf area meter	LA-A	
11	Porometer	LI-600	
12	<b>TOC analyzer (Total organic Carbon analyzer)</b>	<p>Computer controlled integrated system with inbuilt diagnostics capable of analysing Solid/Sludge samples as well as aqueous sample for various environmental applications.</p> <p>TOC Analyser should be capable for oxidizing all kind of environmental samples.</p> <p>The system should be able to analyze aqueous (viz. pure water, drinking water, ground/ surface waters, Waste Water) and solid samples like Soil, Sludge directly.</p> <p>System should be controlled through single point, using instrument software without any hardware changes/replacement during changeover from solid to liquid mode or vice-versa. All features of analyser should be controlled from Computer Keyboard and software.</p> <p>Analysis Modes: Total Carbon (TC), Total Organic Carbon (TOC), Total Inorganic Carbon (TIC), Non-Purgeable Organic Carbon (NPOC)</p>	

		<p>TOC analyser work on 680 OC high temperature combustion followed by NDIR detection for measurement of the evolved CO<sub>2</sub>. Analyser should be capable of measuring TC and IC in solid samples. Separate Furnace for Liquid and Solid Samples to eliminate cross contamination.</p> <p>TOC analyser with High-speed data acquisition system, quality control protocols, calibration, auto optimization and auto tuning of system with status display.</p> <p>Range: For Solid sample – 0.1 to 30 mg Carbon absolute, Detection limit 1µg For Liquid - 04ppb to 30000ppm, Detection Limit 4 ppb, Measuring Time: TC/IC: Approx. 4 min, Solid: Approx. 6 min.</p> <p>Reproducibility: +/- 2% x. Should have inbuilt blank correction Sample Injection: Automatic Injection System Instrument shall supply with High Purity Oxygen Cylinder, Shall supply all accessories to carry out at least 200 samples after satisfactory installations and commissioning, Shall Include branded PC with Laser Jet Printer for Operation of TOC Analyzer.</p>	
13	<b>Microbial colony counter</b>	<p>Dimension : (WXBXL) : 211×355×320 mm / 8.3×13.98×12.6 in. weight : 3 to 4 kg; Magnifying glasses: 120 mm Ø; Upper Light : Yes; Bottom Light: 4 selectable intensities; Counter: 4 digits, 9 mm LED-Display. Max. count 9999; Power Range: 100/240 V; Frequency Range: 50/60 Hz.</p>	
14	<b>High performance liquid chromatography (HPLC)</b>	<p>1. Pump: a) Must be quaternary gradient. b) Programmable/Settable flow rate range: 0.001 to 10mL/min or better. c) Max. Operating pressure: 5800 psi or more. d) Parallel-type double plunger or Serial plunger in series. e) Flow precision: 0.06 or 0.7 % RSD or less. f) Flow rate accuracy: +/- 1 % g) Mixer must be quoted. h) Online vacuum degasser with flow lines 4 or more. i) Module must have leak sensor.</p> <p>2. Auto sampler a) Injection Volume Range: 0.1 to 100 µL. b) Auto sampler carryover: 0.005 % RSD or better. c) Injection volume Accuracy: 1 % d) Sample Delivery Precision: 0.3% RSD or better. e) At least 90 samples or more can be accommodated for 1.5 mL vials or better. f) Injection method: Total volume sample injection, variable injection volume.</p> <p>3. Detector a) Photo Diode Array (PDA) Detector. b) Wavelength range: 190 – 800 nm or better. c) Number of Diodes: 1024. d) Light source: Deuterium lamp and Tungsten lamp. e) Wavelength accuracy: +/- 1 nm.</p>	

		<p>f) Slit width: 8 nm and must be programmable.</p> <p>g) Data Rate: 100 Hz or Better.</p> <p>h) Noise: <math>&lt; \pm 0.7 \times 10^{-5}</math> AU or better.</p> <p>i) Drift: <math>9 \times 10^{-4}</math> AU/h or better.</p> <p>j) Linearity: 2.5 Au or better.</p> <p>k) Flow cell: 10 mm path length, in between 10 to 14 ul volume.</p> <p>4.Column Compartment</p> <p>a) Both cooling and heating facility should be available in column oven.</p> <p>b) Forced air circulation method or Peltier based.</p> <p>c) Temp setting facility: ambient to 70°C or better.</p> <p>d) Temp precision/Temp accuracy: <math>\pm 0.5</math> °C or better.</p> <p>e) Must accommodate at least two or more columns of 250 mm length.</p> <p>f) Module must have leak sensor.</p> <p>5.Chromatography software</p> <p>a) Latest, genuine, and original software must be quoted.</p> <p>b) Software should be able to control complete HPLC System.</p> <p>c) System controller/LAN based communication should be available.</p> <p>6. Accessories</p> <p>a) C18 Columns. (4.6 x 150 mm &amp; 4.6 x 250 mm)- 1 Nos from OEM.</p> <p>b) 1.5 ml/2.0 ml HPLC vials with screw caps quantity number 1000 must be provided along with the system.</p> <p>c) Prefilter/frits quantity 10 number must be provided along with the system.</p> <p>d) Column ferules quantity 10 number must be provided along with the system.</p> <p>e) Plunger seal quantity 1 number must be provided along with the system.</p> <p>f) HPLC peak tubing 3 meter must be provided along with the system.</p> <p>7. PC (main)</p> <p>a) HP Branded PC with Printer</p> <p>b) Must have latest configuration of i5 Processor with 8 GB RAM, 1TB HDD, Windows 10 Professional and 21" LED Screen.</p> <p>8.UPS (main) a) 3 KVA online UPS with 30-Min Backup</p>	
15	<b>Refrigerator 340 L</b>	Refrigerator Type:Top Freezer Refrigerator, Door Type – Double door, Dimensions (mm): 1680.00 x 620.00 x 0.00; Depth : 675mm; weight : 60 to 70 kg; Defrosting Type-Frost Free, Compressor Type- Intellisense Inverter, Capacity-340 L, Number of Doors-2, Star Rating-3 star, Coolpad, Toughened Glass, Builtin Stabilizer,	
16	<b>Power Stabilizer 10 KV</b>	10Kva Single Phase Air cooled voltage Stabilizer digital micro control systems; Input voltage 160-280;Output voltage -230; Speed Correction ( V/Sec)-18-25 V; Dimension:2X3X2; ISO certified; Product type – Digital Electric Indoor; Capacity (A) : 40Amps; Weight (Kg): 25KG; Efficiency (%):98%; Frequency (Hz): 50Hz; Power Source: Back to up down; Speed Correction (V per sec.): 20-40 Volt per Second; Range (W): 8.5W; Portable;	

		Cabinet Material: Metal; Transformer: Copper; Mounting: Rounds; Input Frequency (Hz):50Hz; Weight (kg) : up to 35 kg; Response Time (s) : Mili Second; Ambient Temp. (deg. Celsius): 0-65D; Humidity (%): 0 % ; Driven Type: Air Cooled, Digitally; Power Supply: AC; Insulation : Better than 6 mega oms; Relative humidity % : 0 % ; Size: 2X2X3F; Material: Iron ; Cooling : Air ; Correction Speed : 20-40 Volt Sc; Environment Tempreture: 45d ; Input Window: 160-280 Volts; Life in Hours : 10 Years; Overload rating : 10 % ; Watts : 8.5Watts; Number of wheel : 4.	
17	<b>Air conditioner</b>	Capacity : 1.5 Tons copper ;Noise Level : 46 db;Installation Type : Split system; Voltage : 230 Volts; Wattage: 5200 W;	
18	<b>Computer set with printer and scanner</b>	12th Generation Intel® Core™ i5 processor Windows 10 Home 60.5 cm (23.8) diagonal FHD display 8 GB DDR4-3200 MHz RAM (2 x 4 GB) Intel® Iris® X <sup>e</sup> graphics 512 GB Intel® PCIe® NVMe™ SSD 5.37 kg A4 Black and White Laser Multifunction Printer, Perfect for Business Print, Copy, Scan and Fax, ADF Print speed up to 21 ppm (black) USB, Ethernet, Wi-Fi	
19	FarinographE-F	Sample size-300 gm, Size- 500*400*800 mm, 50-60 Hz, 230 V, 32 A Brand: Erkaya,Turkey Model Name/Number: Farinograph E-F Weight: 75 Kg	
20	<b>Amylograph (Flourgraph E2)</b>	RPM= 0-300 <b>Heating and cooling rates 0.5 - 10 degree C/min</b> Sample volume= 115 ml	
21	<b>Extensograph E-X</b>	Sample size-300 gm Size= 850*450*630 mm (W x H x D) Brand: Erkaya, Turkey Model Name/Number: Farinograph E-F Weight: 75 Kg	
22	<b>Water activity meter</b>		
23	<b>Texture Analyzer</b>	load ranges up to 50kg CT-3	
24	<b>Leaf area meter (1)</b>	Model- LA-A	
25	<b>Chlorophyll meter (1)</b>		
26	Oil distillation unit	Essential oil Distillation Unit (SS 304) <ul style="list-style-type: none"> <li>• Capacity 500 kg and 1000 kg</li> <li>• With all accessories &amp; installation</li> </ul> On turnkey basis	
27	Multiskan SkyHigh with touchscreen, cuvette and µDrop Duo Plate (1)	Model: A51119700DPC Cuvettes Yes Incubator Temperature Ambient + 2°C to 45°C Interface Touchscreen display Light Source Xenon Flash Lamp Measurement Speed 96 wells: 6 sec., 384 wells: 10 sec. Plate Type 6, 48, 96, and 384-well plates, µDrop Plate roduct Line Multiskan™ Shaking Linear	

		<p>Software Type SkanIt Software, Open License Software, Multi-Instrument Software</p> <p>Spectral Scanning Speed 10 sec. from 200 to 1000 nm</p> <p>Wavelength Selection Monochromator</p> <p>Accuracy (Photometric) 1.0% + 0.003 Abs (0 to 2.0 Abs), 2.0% (2.0 to 2.5 Abs) at 450 nm</p> <p>Bandwidth &lt;2.5 nm</p> <p>Depth (English) 17.5 in</p> <p>Depth (Metric) 44.5 cm</p> <p>Includes <math>\mu</math>Drop Duo plate</p> <p>Linearity 0 to 2.5 Abs, 2% at 450 nm</p> <p>Resolution 1 nm</p> <p>Wavelength Range 200 to 1000 nm</p>	
28	<p><b>Malvern Panalytical Zetasizer Advance-Lab (Blue Label)</b> Nano particle characterization system.</p>	<ul style="list-style-type: none"> <li>● Measurement technique: Phase analysis light scattering or Electrophoretic Light Scattering (ELS)</li> <li>● Preferably should incorporate Fast field reversal &amp; slow field reversal techniques in each run to improve resolution, insensitivity to cell alignment, and reduced sensitivity to cell wall contamination.</li> <li>● Constant current Zeta mode should be available for zeta potential measurement of highly saline samples without cell burnout.</li> <li>● Should be able to measure samples suspended in organic solvents.</li> <li>● Unit shall have the capability to isolate charged samples from electrodes to prevent electrode fouling and polarization.</li> <li>● Sensitivity: 10 mg/mL (lysozyme / protein)</li> <li>● Size range suitable for measurement (diameter): 5nm – 100<math>\mu</math>m or better</li> <li>● Zeta potential range: +/- 550mV</li> <li>● Mobility range +/- 10<sup>-11</sup> to 10<sup>-7</sup> m<sup>2</sup>/V.s</li> <li>● Minimum sample volume: 350 <math>\mu</math>L</li> <li>● Minimum sample concentration: <b>1 mg/mL</b></li> <li>● Maximum sample concentration: <b>40% w/v or better</b></li> </ul> <p>Separate Suitable computer(s) should be provided to run the software to acquire data.</p> <p>2KVA Suitable UPS should be provided.</p> <p>2 years of warranty should be provided.</p>	
29	Soil thermometer (digital)	ST-923B	
30	Infra-red Thermometer	MT-16	
31	Soil moisture meter (digital)	PMS-714	
32	Soil moisture meter (digital)	PLICM350	
33	Soil penetrometer	(Mo902E Closed system)	
34	Bulk density kit	Model 0200	
35	Dewpoint Potential Meter (WP4)	WP4C	
36	Double ring infiltrometer	EME (outer ring-60 cm; inner ring 30 cm) with accessories	

37	Hydraulic conductivity meter	2816 Chameleon Kit	
38	Soil permeameter	(M0902E closed system)	
39	Hot air oven	Size-60x60x60 cm, 224 lit, Shelves- 3Nos	
40	All in one PC	Specification: Processor 12 <sup>th</sup> Gen intel Core i7, 16GB Ram, 1 TB SSD Window 11 Total Quantity: 20 Approximate Price per unit: 1,00,000/-	
41	Laser Printer	Specification: USB, Network Wireless Connectivity, Print Speed Fast, Copy Scan & fax Wifi Printer, Double-Sided Printing Total Quantity: 10 Approximate Price per unit: 50,000/-	
42	Colour Printer	Specification: Print speed up to 23 ppm,USB,WiFi, Bluetooth, Mobile Printing, All in one, Wireless Smart Colour printer with Auto Duplex, ADF with Voice- Activated Printing Total Quantity: 1 Approximate Price per unit: 50,000/-	
43	Laptop	Specification: Processor 12 <sup>th</sup> Gen intel Core i7, 16GB Ram, 1 TB SSD Window 11 Total Quantity: 4 Approximate Price per unit: 90,000/-	
44	Scanner	Specification: Connectivity Technology: USB, Resolution; 600 Total Quantity: 4 Approximate Price per unit: 50,000/-	
45	Portable SSD	Specification: 1 TB External SSD, 1030 Mb/s for Windows Total Quantity: 10 Approximate Price per unit: 12000/-	
46	Interactive White Bord	Specification: Ceramic Surface Bord 82" Diagonal Finger touch Sensitive Total Quantity: 2 Approximate Price per unit: 65000/-	
47	LCD Projector	Specification: 4k HDR UHD Total Quantity: 2 Approximate Price per unit: 2,00,000/-	
48	Air Conditionar	Specification: 2 Tons, 5 Star, Inverter Technology Total Quantity: 15 Approximate Price per unit: 95,000/-	
49	Xerox Machine	Specification: Connection type wifi, Print from Mobile device, Fast print Total Quantity: 1 Approximate Price per unit: 1,75,000/-	
50	E-Podium	Specification: one Gooseneck mic and one lamp, 60 W rated power output, 1 aux input, 2MIC inputs 1line output and 1REC output Power Supply: ~230V/50Hz/~110V/60H Power Comsumption: 100W Freq Response :100Hz~16000Hz Rated Power : 50W Inbuild Amplifier Dimensions: 580(L)x420(W)x1100(H)mm	

		Weight:29kg Total Quantity: 2 Approximate Price per unit: 35,000/-	
51	<b>Tractor cut section model</b>	1. Usage/Application-Automobile Laboratory Training 2. Operating Frequency-50 / 60 Hz 3. Floor Area-3 m x 2 m 4. Electricity Supply-230 V AC Single phase / 415 V AC 3 Phase Surface Finish-Premium Quality Automotive Paint	
52	<b>Hot air oven</b>	1. Temperature range-50 to 250 °C 2. Capacity- 125 lit 3. Material-Stainless steel 4. Size-450 x 450 x 600 mm 5. Usage/Application-Laboratory 6. No of trays-2, 4 7. Air circulation-Forced air circulation Display Type-Digital	
53	<b>Refrigerator</b>	1. Capacity-185 L 2. Door type-Single Door 3. Defrosting type-Direct cool 4. Energy efficiency-3 Star 5. Dimensions-65 cm x 57.6 cm x 1.15 m Shelf type-Toughened glass	
54	<b>Universal digital moisture meter</b>	1. Range-8 to 40% 2. Display-Three seven segment FND 3. Principle-Resistance measurement 4. Temperature-Automatic 5. Accuracy-±0.2% 6. Power-Six 9v Dry Cells, 230 Volts 50 Hz AC through adopter Size- 450 x 250 x 330 mm approx.	
55	<b>Infrared moisture meter</b>	1. Moisture Range-0 to 100% 2. Measuring accuracy of moisture-0.5% Amount of samples ≥ 0.5 g 3. Weight of measurement samples-0.5 to 60 g 4. Readability of moisture-0.01% 5. Temperature indication ranges-Room temperature -160°C 6. Display parameter-7 kinds 7. Communication interface-Standard RS232 interface 8. Relative Humidity- ≤ 80% R.H. Power Supply-220 v ± 10% Frequency 50 HZ± 1 HZ	
56	<b>Lab Cabinet Dryer</b>	Material – SS, Temp-40-150°C, Size – 90x90x60 cm, Tray – 12 Triple walled Unit. • Inner chamber made of S.S. • Outer chamber of Mild Steel with Powder coating. • Gap Between the two walls filled with glass wool insulation to avoid heat loses of 65 mm. • Temperature Range 40°C to 150°C Accuracy ±0.5°C. • Air Ventilation is placed on top of sides to remove heat gases and fumes. Size in cm 90 x 90 x 60 cms 12 Trays.	
57	<b>Planetary Mixture</b>	Capacity 40 Lit., power load 0.75kw.	
58	<b>Rotor oven Double Deck</b>	Capacity 10 Kg, Trays-24-SS Body 10tray per deck, tray Size-12"x15", Power requirements-9kw/Dek.	
59	<b>Dough Sheeter</b>	Capacity 10 Kg. table model, power load 2kw.	

<b>60</b>	<b>Bread Slicer</b>	Capacity: 200-250 Nos/hr, Specifications: Number of Blade: 24, Slice Thickness: 12 mm, Automation Grade: Semi-Automatic, Motor Power: 0.25 HP, Phase: Single Phase, Frequency: 50 Hz. Economical, Maintenance free and Efficient. Vibration Controlled by systematic alignment of beating components manufactured through CNC machines. Attractive, User-Friendly Compact Design for Small Spaces. A competently designed slicer mounting stand and a crumbs catching tray is provided with all our bread slicers.	
<b>61</b>	<b>Manual Packaging machine</b>	Pouch sealing machine: Our Hand Impulse Heat Sealers are available in 2 sizes: 200mm Sealing Length and 300mm Sealing Length, both have a 6mm Sealing Thickness. This sealer is a great investment for sealing several packaging bags like Stand-Up Pouches, Side Gusset Bags, Flat Bottom bags, Spout Pouches, Laminated Paper Bags, etc. It helps for locking in the freshness of your products.	
<b>62</b>	<b>Bakery Moulds with accessories</b>	Material: SS food grade. All sizes have tapered bottom of 5 mm for fabricated bread boxes, Smooth edges, Anti-corrosive, Fine finish, High strength. Bread Mould Cookies baking tray Toast mould Pav mould Cake sponge tray	
<b>63</b>	<b>Crown corking machine</b>	Dimensions: L= 200 mm; W= 160 mm; H= 595 mm (8" x 6.3" x 23.4") Weight (Without packing): 7.5 kg (16.5 lbs.). Compatible Material: Glass and Chrome. The crown cork is placed into the MS die and is held in place by a magnet. Flexibility in accommodating various kinds of bottle types. Very easy to use with negligible set up time.	
<b>64</b>	<b>Weighing Scale</b>	Capacity-60 kg, 0.1 gm Pan Size : 275 x 220 mm	
<b>65</b>	<b>Deep Freeze</b>	Capacity – 500 lit Twin door larger capacity Model to avoid cooling loss. Robust construction for heavy duty use, high density puf insulation for better holding time, high energy efficient compressor.	
<b>66</b>	<b>Pulverizer</b>	Heavy duty stainless steel metal cabinet. Four arm hammer friction mechanism. Semi-automatic machine chiled safety control. Chamber cleaning system. Single phase (230 volt, 50 Hz). Grinding capacity 10 – 12 kg per hour, power consumption 750 watt (0.75 unit), electric motor 1 Hp single phase 220 vot, 50 Hz. Motor rpm 2880, weight 30 kg dimension (LxWxH) 23x12x31.	
<b>67</b>	<b>Slicer (Multipurpose)</b>	With different discs. Motor : 1 HP Voltage : 220V, Phase: Single, Body: SS, Process: Slicing & Grating Output Capacity : 10-20 kg /hr	
<b>68</b>	<b>Extruder Puff &amp; Kurkure Making Machine (Single Screw Extruder)</b>	Voltage (V) - 315volt a/c, AC motor 15 hp, DC motor for feed control – 0.5 hp, DC motor for vary cutter speed 0.5 hp, production capacity 10 – 20 per hour, stainless steel hopper, stainless steel guard at product discharge, with different dies. (SS 304)	



69	<b>Abrasive peeler</b>	Capacity 15 kg/hr, double coated abrasive silicon carbide gives you maintenance free long life. Uniquely water flow system, automation grade semi-automatic, peeler material emery stone, motor power 1 hp material stainless steel, single phase, size dimension 30x18x36, weight 60 kg	
70	<b>Mixer – Grinder</b>	2-in-1 functional (dry & chutney grinding) blade. Rated Wattage: 750W No. of jars - 4, Safety Features:- Overload Protection, Jars & lid type-Polycarbonate, Functions - Grinding   Juicing, Capacity of Chutney Jar - 0.4 L, Capacity of Dry Grinding Jar - 1.0 L, Capacity of Liquidizing Jar -1.5L, Capacity of Blender Jar - 1.5 L.	
71	<b>Hot air oven</b>	Model – 7047DT-043Temp.- 50 to 180 <sup>0</sup> C The industrial grade SS tubular sheathed heater, eliminates burnouts due to condensate dripping on floor, 75 mm gap between the walls is filled with special grade glass wool for proper insulation. At the heart of the Ecogain Series is the PID temperature controller with timer which responds instantaneously as well as keeps the overshoot under control. Safe operation in case of dropped items within the oven as heaters are SS tubular. Abrasion resistance and durable finish by heat cured epoxy coating on steel exterior, Capacity 43 lit. iner dia. 350x350x350mm shelves 2, heater power-1, Temp. range- 50 to 200 deg. control accuracy $\pm 2$ weight 51 kg.	
72	<b>Muffle Furnace</b>	Model - BTI-36Size – 23x10x10 cm, Temp.- 300 to 1500 <sup>0</sup> C • Construction: Outer Body made of Mild Steel powder coated. Inner Body made of ceramic Muffle Kumar make insulation: Special type ceramic Insulation between body for Insulation. • Temp Range: 400 <sup>0</sup> C to max 1150 <sup>0</sup> C. • Sensor: ‘K’ type calibrated sensor Silica crucible capacity: 200 ml, working temp.: upto 1200 <sup>0</sup> C	
73	<b>Centrifuge machine</b>	Model – R8C Max speed – 5250 rpm, max capacity – 300 ml, 365x415x350 mm Revolutionary General Purpose Laboratory Centrifuge (max. speed 5250 rpm) with speed regulator, safety lid lock, digital speed meter & timer, but without rotor heads and accessories.	
74	<b>Cyclomixer</b>	Model – CM-101 Plus RPM – 2500 rpm, Tubes –CM 01/03, Holes – 8 (20 mm) Cyclomixer with brushless motor & suitable for interchangeable mixing Heads, No of holes – 6, No. of cuvette with lid- 6	
75	<b>Magnetic stirrer with hot plate</b>	LHST-A11Capacity – 2000 ml, speed – 100-200 rpm, Temp.- 380 <sup>0</sup> C, hot plate carrying weight load – 3 kg Hot plate Magnetic Stirrer Maximum Volume : 500 to 1000 ml Speed : 100 to 1000 rpm Minimum Revolution : 100 rpm Maximum Temperature : 380 <sup>0</sup> C Plate Load : 3 kg Setting Mode : Scale Motor Power : 10 W Heating Power : 0.18 kW	

		<p>Power Supply : 110 V or 220 V , 50/60 Hz  Plate Dimension : 120×120 mm  Exterior Dimension (W×L×H) : 200×120×90 mm  Packing Dimension (W×L×H) : 250×180×120 mm  Net weight : 1.9 kg Gross Weight : 3 kg</p>	
76	<b>Digital TDS meter</b>	<p>Multi-parameter instruments (pH, ORP, Conductivity, TDS, salinity, turbidity) pH / EC /TDS / Salinity Meter (PETS)  Measurement of pH, mV, EC (Electrolyte Conductivity), TDS and Salinity are possible pH, EC, TDS or Salinity (Any of one at a time) parameters displayed along with temperature of sample 240 * 128 Monochrome LCD  Display Back up for calibration data 500 Measured readings data stored for all four parameters along with temperature Recall saved data for view, print etc. In pH mode: 2, 3, 4 &amp; 5 point calibration option, with user &amp; STD buffer selection Measurement Display with BIG FONT</p>	
77	<b>Micro kjeldhal unit</b>	<p>Automatic range – 0.1-200 mg of Nitrogen, Time- 5-10 min, sample capacity solid – 5 gm and liquid – 20 ml  Digester and Distillation unit Measuring Range: 0.1 mg-200 mg N Analysis Time: 5-10 min/sample  Water Consumption in the Distillation Process: 1.5 l/min  Sample Capacity: Solid: ≤ 5g/sample; Liquid: 20 /sample  Burette volume: 2.0µl/step Recovery: ≥ 99.5 %  Reproducibility: Average value relative error ±0.5%  Data Storage Capacity: 1000 groups Power Supply: AC 220 V ±10% / 50 Hz Power: 2 kW Dimension: 455 x 391 x 730 mm Net Weight: 38 kg.</p>	
78	<b>Fiber estimation</b>	<p>Measurement range : 0.1 % to 100 % Sample weight : 0.5 g to 3 g Repeatability error : Craw Fiber Content below 10 %, ≤ 0.4 % Craw Fiber  Content above 10 %, ≤ 1 % Capacity : 6 pcs/batch Pre-heating time : 10 to 12 min Heating to boiling : 13 to 15 min Dimension : 776 × 476 × 644 mm Rated power : 2.2 kW Power supply : 220 VAC ±10% 50 Hz</p>	
79	<b>Heating mantle</b>	<p>Model – COSMO Temp.-380<sup>0</sup>C, AL silicate wool, Aluminium silicate wool, volume - 500-2000 ml, 450 Watt 1 circuit, Temperature range – 380<sup>0</sup>C.</p>	
80	<b>Digital pH meter</b>	<p>Model- S-901 Type 335. 3-5 digit LED, Range – 0 to 14, Temp.- 0-100<sup>0</sup>C  Micro Controller based pH meter with Electrode &amp; Temp Probe (Auto Temp Compensation 3 Point Calibration, Resol 0.0001 pH) Complete with Instruction Manual,</p>	
81	<b>Water Distillation Unit</b>	<p>Model- PDU-310360 Tank capacity- 4 lit, distillation capacity – 1.5 lit/hr Double distillation unit 4 Ltr. Tank Capacity 1.5Ltr/hr.</p>	
82	<b>Soxhlet Apparatus</b>	<p>Holes-6, Max Temp.- 300<sup>0</sup>C, Cup size- 150 ml</p> <ul style="list-style-type: none"> <li>▪ Useful for quick heating which save extraction time</li> <li>▪ Heating Box fitted with Mantles</li> <li>▪ Housing made of M.S./G.I sheet duly finished in epoxy powder.</li> <li>▪ Control panel is separate but attached to the heating box.</li> <li>▪ Wide range of capacity and flask recesses for selection</li> </ul>	

		<ul style="list-style-type: none"> <li>▪ Two vertical &amp; two horizontal rods with boss heads for necessary clamping of rods.</li> </ul> <p>With individual Energy regulator (Mantle Type) for 6 tests with Glass Parts</p> <ol style="list-style-type: none"> <li>1. RBF 250ml – 06 Pcs</li> <li>2. Soxhlet 100ml – 06 Pcs</li> <li>3. Bulb Condenser – 06 Pcs</li> <li>4. Rubber Tubing -20 Mtr</li> <li>5. Rod, Boss Head &amp; Clamp</li> </ol>	
83	<b>Hot plate Round</b>	Model- BTI-23 Temp.- 350°C, Dia- 8x12 in, Construction of body made of M.S powder Coated & top made of heavy cast iron plate for long lasting life Special spring type of beaded coil fitted in plate for uniform temperature on plate. Maximum Surface temperature up to 300°C. 10” x 12”.	
84	<b>Digital Photocolorimeter</b>	Model- S-910 Range- 400-700 nm, Filtre-8, cuvete size – 1 ml • %T & Abs. • Display : 3 Digit LED • 1ml Sample volume • Light source : White LED • Eight Optical filters on a turret to cover 400 – 700 nm	
85	<b>Water Bath (Circulating)</b>	BTI-57 Size- 35x25x10, watt-1000 W, Holes- 6, Diameter – 3 in. Double Walled filled with high grade glass wool insulation between the two chambers Outer Chamber made of M.S with powder coating and Inner chamber made of Stainless Steel. Temp. Controlled by thermostatic. Temp. Range 5°C above ambient to 100°C.Supplied with 7.5 cms concentric Ring. 35x25x10 cm 6 Hole Outer.	
86	<b>Flame Photometer</b>	Model- S-931 Microcontroller controlled automation for ease of operation. • Determination upto four elements with single aspiration (Na-10ppm, K- 10ppm, Li-10 ppm, and Ca-10 ppm without dialution, Sensitivity Na- 2 ppm K-1 ppm, Li-1 ppm, Ca- 30 ppm). • Upto five point calibration available. • Frequently used measurement setups can be stored and recalled. • Facility for restandardisation with single standard available. • Data processing with linear mode or quadratic curve fitting Results of a measurement taken earlier can be recalled and displayed (Max. results storage: • 700) • 20-character, 4-line alphanumeric LCD readout for adequate user interfaces. • Built-in real time clock for date and time of analysis. Centronix printer port for Epson compatible Dot Matrix / Inkjet printers to get hard copy of results (printer optional). • Printout facility for individual sample, batch samples in the memory (700 max). • Air compressor with built-in air regulator and air filter.	
87	<b>TLC Plate</b>	20x20 cm (1 packet containing 100 sheet) TLC Plate Size- 20 x 20 cm, (1Pkt containing 25 sheets)	
88	<b>Paper for paper chromatography</b>	10 x 30 cm (1 packet containing 100 white sheet)	
89	<b>Chromatography chamber</b>	24 x 24 x 12 in Paper Chromatography Cabinet, Ascending or Descending, made of teak wood and glass construction. It can accommodate two (troughs) and six glass rods. Cabinet size : 60x30x60 cm. approx for 4 filter papers of 46x57 cm. Size	

90	<b>Desiccator</b>	Model- 3082 Desiccators Plain with knobbed lid, Ground Flanges Neutral Glass, with Perforated Porcelain Plate. Model-1 Dia. 160mm. Model-2 210 mm, Model-3 120 mm.	
91	<b>UV Vis Single beam spectrophotometer</b>	Model – Type 117 Micro-controller based %T, Abs, Conc. (K factor, Multi standard) measuring modes Single Wavelength, Multi Wavelength, Scan, Time Scan, Online measurement facility Data stored for each operating modes Single Position 50 mm Cuvette Holder (Optional) Printer interface (Optional) PC interface (Optional) Wavelength Range: 200 -1100 nm, Optical System : Single Beam, Spectral Bandwidth:2 nm Wavelength Accuracy: +-1.0 nm, Wavelength Repeatability: +-0.5 nm, Photometric Accuracy :+-0.005 Abs, Photometric Range: -0.04 to 3.0 Abs Photometric Repeatability: +-0.002 Abs, Stray Light: Less than equal to 0.1%T, Detector : Silicon Photodiode, Lamp Type: Tungsten Halogen Lamp, Grating :1200 lines / mm, Baseline Flatness: +- 0.005 Abs, Dimensions: 480*410*215 mm, Voltage :230 V, Frequency : 50 Hz, Weight: 13 kg	
92	<b>Combined Unit of Rotameter, Venturi meter and Orifice meter</b>	Model – FM14B Capacity – 100 lit, tank – 29 lit, pump-0.5 hp	
93	<b>Refrigeration system Model</b>	Model- RAC27 Display Model The Refrigeration Test Rig works on vapour compression cycle. Evaporation occurs at a low temperature and low pressure while condensation occurs at a high temperature and pressure. This includes pressure gauges, temperature indicators and controller, energy-meters, heater for applying load.	
94	<b>Sieve analyser</b>	Auto setting with complete set Laboratory Sieves (Size - 200(0.0075mm), 140 (0.105mm), 100(0.15mm), 60(0.25), 40(0.42) (Each)	
95	<b>Ball Mill</b>	PLT-211 FHP geared motor with max. speed of 80 RPM with inter-changeable Jars. Workable on 220 / 230 volts A.C. Capacity 2 Kg.	
96	<b>Reynolds Apparatus</b>	Tank capacity – 50 lit, Acrylic tube of Size : 1’’ 1) Acrylic tube (transparent) 25 mm OD of suitable length. 2) Sump tank of 400X400X700 mm 3) Supply tank of 300x300 mm size & die tank with die needle 4) Flow control valve. ) Measuring Flask & stop watch for flow measurement. FEATURES:- a) Steady flow arrangement b) Very clear flow visualization c) Fine control of die thread. d) Accurate flow measurement & control. Tanks material –Mild steel with Inside FRP coated.	
97	<b>Wet and dry bulb thermometer</b>	Height – 320 mm, scale- 0-100°C, An instrument used to measure the relative humidity of the atmosphere. It consists of a thermometer with a bulb that is wet or moist and one	

		that is kept dry. The relative humidity is calculated from the difference in readings of the thermometers when water evaporates from the wet bulb, decreasing its temperature.	
<b>98</b>	<b>Plate Heat Exchanger</b>	Plate Heat Exchangers have a high heat transfer rate compared to other types of heat exchangers due to their large surface area. They are composed of a number of thin metal plates compressed together into a 'plate pack' by two pressure plates. Within a plate heat exchanger, the fluid paths alternate between plates allowing the two fluids to interact, but not mix, several times in a small area. Each plate is corrugated to increase the surface area and maximize heat transfer	
<b>99</b>	<b>Shell and Tube Heat Exchanger</b>	Shell - 220 mm I. D., 600 mm long provided with end boxes, cold & hot fluid inlet & outlet connections Copper tubes - 1/4" O.D. copper tubes for hot water 24 Nos Heating arrangement – 3kw water geyser. 12 channel Digital temp. Indicator.	
<b>100</b>	<b>Belt and chain conveyer</b>	Prototype Demo model showing How to works Belt conveyor bearing support gear motor and pulley arrangement Drive arrangement smooth and easy working	
<b>101</b>	<b>Bucket elevator</b>	Prototype Demo model showing How to works bucket conveyor bearing support gear motor and pulley arrangement Drive arrangement smooth and easy working.	
<b>102</b>	<b>Screw conveyer</b>	Prototype Demo model showing How to works screw conveyor bearing support gear motor and pulley arrangement Drive arrangement smooth and easy working	
<b>103</b>	<b>Centrifugal pump</b>	Cut sectional Model of Original centrifugal pump mounted on board cut sectional view showing all internal parts ,component and hand operated working for showing actual internal working	
<b>104</b>	<b>Reciprocating pump</b>	Cut sectional Model of Original reciprocating pump mounted on board cut sectional view showing all internal parts ,component and hand operated working for showing actual internal working	
<b>105</b>	<b>Positive displacement pump</b>	Cut sectional Model of Original gear pump mounted on board cut sectional view showing all internal parts, component and hand operated working for showing actual internal working	
<b>106</b>	<b>Lancashire Boiler</b>	observation and prototype non working model of Lancashire model showing details component working process	
<b>107</b>	<b>Babcox and wilcox boiler</b>	observation and prototype non working model of model Babcox and wilcox boiler showing details component working process	
<b>108</b>	<b>Model of Packed boiler</b>	observation and prototype non working model of Model of Packed boiler showing details component working process	
<b>109</b>	<b>Water tube boiler</b>	observation and prototype non working model of Model of water tube boiler showing details component working process	
<b>110</b>	<b>Single and multiple effect evaporator</b>	This unit consists of : a.Main shell : 2 Nos. O.D 320 mm. I.D. 300 mm	

		Height : 525 mm Shell thickness : 8 mm. Flange thickness for mainshell 10mm 12 Channel digital temperature indicator. Steam at the rate of 100 Kg/Ltr capacity	
111	<b>Open and vacuum pan evaporator</b>	Open Pan Evaporator, water Tank with Heater, Pump for water Circulation, Temperature Indicators 1 Nos., Stop Watch, Solution, Product Receiver.	
112	<b>Digital Vernier calliper</b>	Size – 150 mm	
113	<b>Weighing Balance</b>	Model- PGB6000 Range – upto 6 kg, Capacity 6000g, Readability- 0.1g (100mg) Pan size 175x155mm Display LCD Operating Temp. 10 deg to 40 deg. Dimension 440x265x220, weight - 4 kg.	
114	<b>Autoclave</b>	Model- 7431PAD Low water level cutoff, End of cycle buzzer. Fitted with a safety valve for added safety. supplied with traceable certificate for pressure gauge and temperature indicator. Construction: Inside and outside chamber are fully stainless steel. Hydraulically die pressed lid from stainless steel plate Flange, fly screw, crosspin, heater cover stand are also fully stainless steel, all internal joints argon welded, ground and polished to give crevice free internals. Standard Features: preset Digital temperature indicator cum controller linked to a preset timer with 1 deg resolution 1 deg accuracy. Pt 100 sensor for precise control and monitoring inner dim. 350x550(14x22"), carrier 1 of 300x500 Heater 2.50kW, Ext. Dim. 580x500x980, Packing 820x610x120/60kg Size – 14 x 22 in, Volts- 2.25 kV Capacity – 60 kg, Dimension-870x670x1230 mm	
115	<b>Colony Counter</b>	Desk Model - 0671M Digital Colony counter is ideal for fast and fatigue free counting of Bacterial Colonies. Circular tube and powerful magnifying lens reduces operator fatigue. Streamlined design ensures fast and accurate count. Desk top compact model. LED display with audio beep at every count. Woulff hue gel grid glass plate. Magnification: 2x, Maximum count: 9999. Manual count switch for counting without Marker pen. external dimension 260x350x180mm. Packing Dimension 440x400x300 mm/5.6 kg.	
116	<b>Laminar Flow Unit</b>	Model – BTI-31 HM 4 / VM 4 Working area – 4 x 2 x 2 ft, size of filter – 4 ft x 2 ft x 3 Illumination – 2 x 40 watts. Construction-Outer body made of M.S powder coated & Inner working area made of S.S. • HEPPA filter- Efficiency of heppa filter of 99.97 down on 0.3 microns & pre filter down to 5 micron • Suitable blower fitted at backside of uniform flow. • Supplied with 1 U.V light & 1 day light. 4" X 2" X 2".	
117	<b>BOD Incubator with thermostick stabiliser</b>	Model - BTI-06 Construction Double walled Construction Outer Body made of Mild steel powder Coated & Inner body made of stainless steel. Temp Range 5°C to 60°C. deg , • Air circulation By Air circulation fan motor with blower to maintain uniform temp	

		Motor of 1/12 HP 1440 RPM Size – 10 ft <sup>3</sup> , capacity – 285 lit, inner dia- 55x55x90 cm, no. of shelves- 3.	
118	<b>Digital weighing balance</b>	Model- PGB-220 Capacity 1 mg - 220gm, readability 0.001g (1 mg) Pan size 128 x 128 mm , Response Time 3-4 sec, Display LCD with back light, Temp. 100C to 400 C Dimension (LxWxH) 360x260x355mm weight 3.5kg	
119	<b>Rotary shaker</b>	Model- RS-12 Plus Speed – 50-400 rpm, flask capacity – 500 ml x 5 universal platform of size 12” x 12”	
120	<b>Digital thermometer</b>	Model – Testo 108 Temp- (-50) to 300 <sup>0</sup> C, water proof. Measuring temperature range: -20 to +300 <sup>0</sup> C, Operating temperature -20 to +60 <sup>0</sup> C Storage temperature -30 to +70 <sup>0</sup> C Protection class IP67 (with attached included probe and TopSafe) Measurement rate 2 measurements per second Dimensions 140 x 60 x 24.5 mm (without probe).	
121	<b>Bionocular Microscope Camera attachment</b>	Model – METZ 778 Magnification : 50x-1000x, Boservation Trinacular 45 ", 36" rotatable, with interpupillary and dioptre adjustment. A rigid & heavy stand, Coarse and fine focusing by conveniently placed separate knobs 1 div. 0.002mm. Horizontal Mechanical stage 120x140mm with fine vernier graduation, Designed with convenient co-axial adjustment for slide manipulation through 50 x70 mm. Objectives: Achromatic 5x,10x,45x & 100x, oil(SL) Digital USB Camera 5.0 Megapixel color CMOS Sensor, Size 1/2" pixel size 2.2x2.2 micron resolution 2592x1944, PC interface, 30 bit color depth, exposure time 1 microsecond to 2 second. High image Transmission convenient to use any standar Microscope. Digital Camera can change image into digital signal & send it to your PC. Eye Pieces - W.F. 10x Anti Fungus Coated. (paired) F.O.V.18 MM. Objectives - Achromatic 5x, 10x, 45x & 100x oil (SL).	
122	<b>Lab Scale fermenter</b>	Capacity of Vessel:-5.0 Liters Laboratory Fermenter Total Capacity: 5L Working Volume: Up to 3.75 Liters Complete with following: i) Multicolor, TFT Touch Screen Graphic display Control Panel-01 No. ii) pH sensor with Transmitter & cable-01No.. iii) Temp. Sensor with cable-01No. iv) Heating element with cable-01 No v) Oil free air pump-01 No. vi) Rotameter (0-5LPM) vii) Peristaltic pumps for the dozing of Acid, Base, Feed— 03No. viii) Ring Sparger—01 No. ix) PMDC motor with drive card-01No. x) Software---01 No xi) In/Out Filter: PTFE filters of 50 mmΦ-2No. xii) Accessories: 3no.borosilicate glass bottles with SS Nozzles clamps, PTFE filters of 25 mm dia, SS screws-8 No, Silicone tubing (3x6mm)-05 meter, (9x6-3meter) -01 Set	

		<p>SS D.O2 Sensor/Probe with cable: Online SS DO2 Probe/sensor sterilizable at 121.5°C and 15psi with DO lead for monitoring Dissolved Oxygen in the fermenter vessel. Range: 0 to 100% . /Equivalent</p> <p>Chiller-Circulator:- Chiller with circulation facility to control the temperature 5°C to below ambient. The size of storage tank:-5L, MOC:- SS304 for contact parts and MS Powder Coated for non contact parts.</p> <p>Autoclave: Suitable autoclave made up of double walled 304 grade SS 16SWG sheet inner and outer chamber, suitable for sterilization of 5-7L</p> <p>Fermenters vessel. Capacity:100L Dimensions: 400mm(Dia)x650mm(Ht).</p>	
123	<b>Alcohol Hydrometer</b>	Automatic, Range / Reading 0-200 deg proof, to determine the alcohol content of wine and distilled spirit.	
124	High Precision <b>Digital Balance</b>	Model – HPB-501 Range – 1 mg to 520 g Capacity 510 g, Pan Size 128x128 mm, Readability 0.001g (1mg), Min. (Capacity) 0.1g, Display LCD, Response Time 4-5 sec., Operating Temp. 15°C to 30°C, weighing chamber height 195 mm.	
125	<b>Noodle &amp; Pasta Machine</b>	Product Code16009 Dimensions340 (L)x 220 (W)x 280 (H)Material- Plastic, Item Weight-5.3 Kilograms, Item Dimensions LxWxH- 34 x 22 x 28 Centimeters, Included Components-Kent Noodle and Pasta Maker-01, Shaping Dies-01, Measuring Cup-01,Flour Cup-01, Cleaning brush-01, Instruction Manual-01, Noodle & Pasta Maker-01, Shaping Dies-07, Measuring Cup-01, Flour Cup-01, Cleaning brush-01, Instruction Manual-01, Operation Mode-Automatic	
126	<b>Laboratory oven</b>	Model – 7047DT-043 Temp.- 50 to 180°C  The industrial grade SS tubular sheathed heater, eliminates burnouts dueto condensate dripping on floor, 75 mm gap between the walls is filled withspecial grade glass wool for proper insulation. At the heart of the EcogainSeries is the PID temperature controller with timer which respondsinstantaneously as well as keeps the overshoot under control. Safe operationin case of dropped items within the oven as heaters are SS tubular.  Abrasion resistance and durable finish by heat cured epoxy coating on steelexterior, Capacity 43 lit. inerdia. 350x350x350mm shelves 2, heaterpower-1, Temp. range- 50 to 200deg. control accuracy ±2 weight 51 kg.	
127	<b>Lab Cabinet Dryer</b>	Model – PSI-030 Material – SS, Temp-40-150°C, Size – 90x90x60 cm, Tray – 12  Triple walled Unit. • Inner chamber made of S.S. • Outer chamber of	



		Mild Steel with Powder coating. • Gap Between the two walls filled with glass wool insulation to avoid heat losses of 65 mm. • Temperature Range 40°C to 150°C Accuracy ±0.5°C. • Air Ventilation is placed on top of sides to remove heat gases and fumes. Size in cm 90 x 90 x 60 cms 12 Trays.	
128	<b>Weighing scale</b>	Model – TTB-15 Range – 15 kg, Readability – 0.5 g Capacity 15kg, Readability 0.5gm (500mg) display RED LED, operating Temp. 10°C to 40°C Dimension 365x320x160 mm /190 x 260 mm.	
129	<b>High Precision Digital Balance</b>	Model – HPB-501 Range – 1 mg to 520 g Capacity 510 g, Pan Size 128x128mm, Readability 0.001g(1mg), Min.(Capacity)0.1g, Display LCD, Response Time 4-5 sec., Operating Temp. 15°C to 30°C, weighing chamber height 195mm.	
130	<b>Digital Refractometer</b>	Model 1 <sup>st</sup> LAB 51/52 Range – 0-95 <sup>0</sup> Bx	
131	<b>Popcorn Machine</b>	Electric (200 gm/batch) • Automation Grade: Automatic. • Power Source: Gas., Material: m/s panel & standard steel, Food contact material - SS304. • Production Capacity: 500.0 grams per batch. Capacity: 500gm. • Power Consumption: gas. • Operation: Battery Operated.	
132	<b>Lab oil expeller</b>	Model- SH 400 Raw material input – 3-5 kg/hr Type-Cold Press, Motor power-0.25HP, RPM-56 Rotation per Minute, Capacity 2-5 kg/hrs weight-12kg, size 20x8x10inch.	
133	<b>Milkotester</b>	Measuring range – upto 13% Fat, sample volume -0.5 ml	
134	<b>Gerber centrifuge</b>	Model – Micro III Time- 0 to 99 min, Diameter – 450x460x280 mm Capacity 24 Test, Voltage 150 -250 V, Power Source Electric, Test Time 3-5 Min. Milk butyrometer : Scale part capacity: 1.125mL, Scale pieces: 90 pieces, Body diameter: φ24.5mm, Length: 195mm, One tick marks: 0.0125mL, Package size: 40x210x30 mm, 70 g	
135	<b>Cream separator</b>	Capacity 10 lit, Food contact material - SS304	
136	<b>Khoa making machine</b>	Capacity-10lit/batch, Food contact material - SS304, Heating – electric, Ac Power Supply Voltage – 220v.	
137	<b>Ice-cream making machine</b>	Model- ICM150A 1.5 Lit, Modern Design Ice Cream, Sorbet, Slush & Frozen Maker. Include double insulated freezer bowl with integrated cooling liquid.	
138	<b>Paneer press</b>	Model – 10LPH Capacity 10 kg, minimum capacity – 1 kg, Food contact material - SS304.	
139	<b>Microwave oven</b>	Model- MC35J8085PT Capacity 35 lit., convection oven, grill and baking.	
140	<b>Meat mincer</b>	SS 304 Made	
141	<b>Defeathering machine</b>	Bird capacity- 10, Material- SS304	
142	<b>Screw type juice extractor</b>	Model – No. 6 Hand operated, Capacity – 6 ltr, Dimension- 17x24x40 cm, Food contact material - SS304.	
143	<b>Blender</b>	Model-HR3705/10 Cord length-1.2m, Voltage-220-240V	

		Included - Dough hooks, Strip beaters, Cord length - 1.2 m, Voltage- 220-240 V, Dimensions of product (LxWxH) - 186X84X154 mm.	
144	<b>Food processor</b>	Juice and pulp extractor, vegetable cutter	
145	<b>Hand sealing machine</b>	12 inch or 300 mm, product dimension (LxWxH) – 40x50x60 mm Power (Volt*Watt).-240V*200W.	
146	Deep Fryer <b>Machine</b>	Model – 16LPH Double Deep Fryer: SS 304, Shape Rectangle, Voltage 240 V, Oil Capacity 18 Liters, Tank Capacity 16L Liters, Basket Size 210 x 280 x 140 mm , Material SS	
147	<b>Hot Air Oven</b>	With digital temperature controller & air circulation an Construction: Double walled construction outer body made of Mild Steel powder coated, & Inner Body made of Stainless Steel grade S.S 304. Insulation: Glass wool insulation between two walled. Temp range: 50 °C to 250°C. Accuracy: +/- 1 °C. Size : 24 x 24 x 24" Capacity : 220Ltr	
148	<b>Analytical Balance</b>	Weighing <b>50g      0.0001g      100</b> Balance <b>CAS-54</b>	
149	<b>Water Bath Thermostatic</b>	Thermostatic- Rectangular Complete S.S. Body Temp. Range 5°C above ambient to 99°C. Supplied with 7.5 cms concentric Ring. Size : 35 x 25 x 10 cm 6 Hole Capacity : 8LTR	
150	<b>Orbital shaker and incubator (Heating)</b>	Capacity: 16x500ml. Temp. Range: 5 °C above Room Temperature to max 60°C. Temp) Double Walled Inner S.S. & Outer Body M.S. Powder Coated. Controlled by: Microprocessor PID Temp Controller RPM Range: 50 to 200 RPM Variable Speed controlled by Digital Display with PMDC Motor complete with stainless steel tray Lotus shaped spring type clamp but without conical Flask.	
151	Computer	<b>HP Specification:</b> Intel Core i3, 12 <sup>th</sup> generation, 8 GB RAM, 512GB SSD, 19.5" Monitor, USB KBM, WIN 11+MSO 21	
152	Printer cum Scanner	<b>Model:</b> DCP-L2520D Multi-Function Monochrome Laser Printer with Auto-Duplex Printer	
153	Colour Printer	<b>Specification:</b> colour	
154	Air conditioner	<b>Capacity :</b> 1.5 tons ,	
155	CCTV Camera with all accessories	Bullet camera	
156	Rechargeable Battery	FL8379 Rechargeable Torch Flashlight, Ultra Long Beam Range, Aircraft Aluminium Body, Super Bright LED Light	
157	NMR	Spectrometer model MQC Oxford configured MQC system	
158	Pocket Tachometer	DT-2236C Non-Contact and Contact Tachometer	
159	<b>Permeability apparatus – Falling and Constant Head</b>	SE-Test Lab Instruments (I) Pvt. Ltd., Delhi	
160	<b>Darcy Law Apparatus</b>	Innovative Research Equipments, Kurukshetra, Haryana	
161	<b>Combustion Analyzer</b>	Primary/Ambient Air Temperature: -4 to 999 °F Stack Temperature: -4 to 2192 °F	

		<p>Oxygen: 0.1 to 20.9%  Carbon Monoxide: 0 to 4,000 ppm  Carbon Monoxide (High Range): 4,001 to 20,000 ppm  Nitric Oxide: 0 to 3,000 ppm</p> <p><b>Range/Accuracy</b>  Primary/Ambient Air Temperature: -4 to 999 °F Stack  Temperature: -4 to 2192 °F  Oxygen: 0.1 to 20.9%  Carbon Monoxide: 0 to 4,000 ppm  Carbon Monoxide (High Range): 4,001 to 20,000 ppm  Nitric Oxide: 0 to 3,000 ppm</p>																																	
162	<b>Anemometer</b>	<p>Item Weight      300 grams  Material            Metal  Measurement  Accuracy            +/-0.5%  Power Source  Type                  Battery  Powered    <b>Range/Accuracy</b>  Airflow Range    0.6 to 20 m/s,120-4000  ft/min  Temperature  Range                -20 to 60 deg c,- 4 D F-  140 D F  Airflow  Accuracy            +/-2.5%rdg +0.2m/s  Temperature  Accuracy            (+/-) 0.8 deg C</p>																																	
163	<b>Portable Flue Gas Analyser</b>	<p><b>Usage/Application:</b> Flue Gas Analyser  <b>Power Supply:</b> USB charger  <b>Features:</b> Rotary dial &amp; 6 line display Wireless option</p> <table border="1"> <thead> <tr> <th><b>Actual Parameters</b></th> <th><b>Resolution</b></th> <th><b>Accuracy</b></th> <th><b>Range</b></th> </tr> </thead> <tbody> <tr> <td>Flue Temperature with probe with suitable probe</td> <td>0.10 C</td> <td>±2.00 C</td> <td>0 – 1200 C</td> </tr> <tr> <td>Inlet Temperature</td> <td>0.10 C</td> <td>±0.10 C</td> <td>0 – 500 C</td> </tr> <tr> <td>Oxygen</td> <td>0.1%</td> <td>±0.2%</td> <td>0 – 21%</td> </tr> <tr> <td>Carbon Monoxide (Standard)</td> <td>1 ppm</td> <td>±20 ppm&lt;500 ppm</td> <td>0 -10000 ppm±5%&gt;500 ppm</td> </tr> <tr> <td colspan="4"><b>Derived Parameters</b></td> </tr> <tr> <td>Carbon Dioxide</td> <td>0.1%</td> <td>±0.3% of reading</td> <td>0 – 20%</td> </tr> <tr> <td>Efficiency</td> <td>0.1%</td> <td>±1.0% of reading</td> <td>0 – 120%</td> </tr> </tbody> </table>	<b>Actual Parameters</b>	<b>Resolution</b>	<b>Accuracy</b>	<b>Range</b>	Flue Temperature with probe with suitable probe	0.10 C	±2.00 C	0 – 1200 C	Inlet Temperature	0.10 C	±0.10 C	0 – 500 C	Oxygen	0.1%	±0.2%	0 – 21%	Carbon Monoxide (Standard)	1 ppm	±20 ppm<500 ppm	0 -10000 ppm±5%>500 ppm	<b>Derived Parameters</b>				Carbon Dioxide	0.1%	±0.3% of reading	0 – 20%	Efficiency	0.1%	±1.0% of reading	0 – 120%	
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		Losses            0.1%            ±1.0% of reading      0 – 99.99% Excess air       0.1%            ±0.2%           0 – 2885.0% Temp (Net)      10 C            ±20 C           0 – 600 C Standard CO/CO            0.0001        ±0.0001       0 – 0.9999 Ratio Poison           0.01%         0.01%         0 – 99.99% Index	
164	<b>Digital Lux Meter</b>	Digital Lux Meter, Upto 50,000 Lux 1 Lux to 50,000 Lux, in 3 ranges Range: 0 to 50,000 Lux in range of 0 to 1999. 2000 to 20000 and 20000 to 50,000 Lux Resolution: 1 in the range of 0 to 2000 Lux. 10 in the range of 0 to 20000 Lux. 100 in the range of 0 to 50,000 Lux. Along with Calibration Certificate Range : 0 ~ 200,000 lux 0 ~ 20,000 fc. Accuracy : ± 5% rdg + 10 dgt (< 10.000 lux / fc) ± 10% rdg + 10 dgt (>10.000 lux / fc) Resolution : 0.1 lux or 0.1 fc	
165	<b>Tachometer</b>	<ul style="list-style-type: none"> <li>- Measuring range: <b>5 ... 99999 rpm</b></li> <li>- Accuracy: ± 0.03% / ± 2 digits</li> </ul> <ol style="list-style-type: none"> <li>1. 2 in 1 tachometer is contact and non-contact measuring instrument which is used for measuring motor speed. Commonly used in motor, electric fan, washing machine, etc. for measuring RPM.</li> <li>2. Accurate measurement with measuring ranges up to 99,999 RPM (for non-contact and 20,000RPM for contact).</li> <li>3. Fast measurement with sampling time of 0.5 sec (more than 120 RPM) and measuring distance range 50 mm-600 mm.</li> <li>4. You can check rotation speed (RPM), counter rotation (REV), frequency (Hz), surface velocity (m/min, inch/min, feet/min, code/min) and length (meters, inches, feet, yards).</li> </ol> Data storage range is 30. 10 for max measurement, 10 for min measurement and 10 for instantaneous value.	
166	<b>Digital Temperature &amp; Humidity Monitor</b>	Colour            As shown in the image Included Components      1 Net Quantity       1 count Power Source       Battery Powered Number of Batteries      1 9V batteries required.  • Wide Range with Accurate Measuring: Humidity: 0 to 100% RH, Temperature: -22°F to 199°F, Dewpoint Temperature: -22°F to 199°F, Wet Bulb Temperature: 32°F - 176°F	

		<ul style="list-style-type: none"> <li>• Fast Response: Only 10s response time. It can display accurate temperature humidity value quickly. With backlight, you can get clearly readings even in the darkness.</li> </ul> <p>5. Widely Application: can be widely used in HVAC, industrial, laboratory, wine cellar, greenhouse, warehouse, home and apartment.</p>	
167	<b>Surface Temperature Meter</b>	<p>Recommended Measuring Uses for Product Temperature</p> <ul style="list-style-type: none"> <li>• 3-digit, + degree celcius (degree fahrenheit) display in 0.1 degree increment, beeps when measurement is completed.Flexible Tip : No</li> <li>• Measurement Accuracy : <math>\pm 0.1</math> degree celcius (32.0 to 42.0 degree celcius)</li> </ul> <p><math>\pm 0.2</math> degree fahrenheit (89.6 to 107.6 degree fahrenheit)</p>	
168	<b>Thermo-hygrometer</b>	<p>Power Source Battery Powered</p> <p>Maximum Storage Temperature 60 Degrees Celsius</p> <p>Response Time 500 Milliseconds</p> <p>Immersion Depth 5 Centimetres</p> <p><b>Accuracy Temperature: <math>\pm 1</math> °C.</b> Measuring range humidity: 10 – 90 % Resolution humidity: 1 % Accuracy humidity: <math>\pm 5</math> %</p> <ul style="list-style-type: none"> <li>• Measure temperature &amp; humidity, wet bulb and dew point temperature.</li> <li>• Large LCD display with backlight, easy and clear for reaq.</li> <li>• High accuracy and fast response time.</li> <li>• Max./Min. data and data ld functions.</li> <li>• Auto power off and sleep mode.</li> </ul> <p>• Warranty not applicable for this product</p>	
169	<b>Digital Multimeter</b>	<p>Included Components Meter</p> <p>Item Weight 300 grams</p> <p>Manufacturer Series Number 108B+ TRMS</p> <p>Measurement Accuracy Voltage: DC: <math>\pm 0.8\% + 4</math>; AC: <math>\pm 1.5\% + 4</math>; Current: DC: <math>\pm 1.5\% + 4</math>; AC: <math>\pm 2\% + 4</math></p> <p>Measurement Type Multimeter</p> <p>Model Number 108B+ TRMS</p>	

		<p>Number of Items        1</p> <p>Power Source Type     Battery Powered</p> <p>Style                     Digital</p> <p>Measurement Accuracy    Voltage: DC: <math>\pm 0.8\% + 4</math>; AC: <math>\pm 1.5\% + 4</math>; Current: DC: <math>\pm 1.5\% + 4</math>; AC: <math>\pm 2\% + 4</math></p> <p>The DC voltage accuracy is 0.8% +1dgts, and the AC voltage accuracy is 1.2% + 10dgts. The DC voltage range is 200mV-600V, and the AC voltage range is 200V to 500V</p>	
170	<b>Digital Ultrasonic Flow meter</b>	<p>Application Media: Water, waste water, oil, alcohol, chemicals, industry water or any other liquid</p> <p>Display: Digital, Local</p> <p>Line Size: 15-100 mm, 50-700 mm, 300-6000 mm</p> <p>Meter Type: Portable</p> <p><b>Accuracy:</b> <math>\pm 1\%</math> of reading at rates <math>&gt;(0.2\text{m/s}) 0.6 \text{ ft/s}</math></p> <p><b>Repeatability:</b> 0.2%</p> <p><b>Linearity:</b> 0.5%</p> <p><b>Response Time:</b> 0 to 999 seconds (user configured)</p> <p><b>Velocity:</b> (<math>\pm 32 \text{ m/s}</math>)</p> <p><b>Media Temperature Range:</b></p> <p><b>Standard Transducers:</b> 0 to 90°C (32 to 194°F)</p> <p><b>With High Temp Transducers:</b> 0 to 160°C (32 to 320°F)</p> <p><b>Operating Temperature:</b> Meter, -20 to 60C (- 8 to 140F)</p> <p><b>Operating Humidity:</b> Meter, 85% RH</p> <p><b>Pipe Size:</b> DN 15 to 100 mm (0.75 to 4") standard [up to DN 6000 mm (236") with optional transducers]</p>	
171	<b>Temperature Indicator</b>	<p>Type of Product: Digital Temperature</p> <p>Voltage (V DC): 85V-270V AC/DC</p> <p>Mounting Type: Panel mount</p> <p>Display: Dual Display, 3 digit, 7 segment LED</p> <p>Resolution: 0.1/1° for TC/RTD (fixed 1° for R and S TC)</p> <p>Dimensions (mm): (L x W x H): 76 mm x 48 mm x 48 mm</p> <p>Model No: TC533BX</p> <p>Input Type: Thermocouple (J,K,T,R,S) / RTD (PT100)</p> <p>Ranges from -30°C to 250°C with an accuracy of <math>\pm 1\%</math> FSD.</p>	
172	<b>Digital Pressure Meter</b>	<p>Power Source    230 volts 24 vdc</p> <p>Battery Life     3 months</p> <p>Display Digits   4</p> <p>Pressure Range -1 to 1000 bar</p> <p>0.05% Accuracy up to 1000bar, 0.1% Accuracy over 1000bar.</p> <p><b>Scale Ranges:</b> 0 to 160 mBar up to 0 to 3,000 Bar</p>	

173	<b>Digital TDS Meter</b>	<p>Tds Resolution 0.1ppt</p> <p>Cond. Range 5 Ranges 0 to 1000m Mhos/cm</p> <p>Tds Range 5 Ranges 0 to 1000ppt</p> <p>Tds Cell Platinum Dip</p> <p>Cond. Range 5 Ranges 0 to 1000m Mhos/cm</p> <p>Tds Range 5 Ranges 0 to 1000ppt</p> <p>Accuracy: +/-1%</p>	
174	<b>Precision Balance (5gm-100kg)</b>	<p>Model Name/Number SSPF</p> <p>Weighing Capacity 5gm-100kg</p> <p>Material Mild Steel</p> <p>Display Type LED Display</p> <p>Range (5gm-100kg)</p> <p>Accuracy: +/-1%</p>	
175	<b>Ph Meter</b>	<p>Cable Length 5m</p> <p>pH Range 14pH</p> <p>Degree of Protection IP67</p> <p>Accuracy ±0.1 pH to ±0.001 pH</p> <p>The degree of hydrogen ion activity is ultimately expressed as pH level, which generally ranges from 1 to 14</p>	
176	<b>Sunshine Recorder</b>	<p>Material SS</p> <p>Depth 1 mm</p> <p>Automation Grade Manual</p> <p>Thickness 0.43 mm to 0.48 mm</p> <p>Graduation of Degree - 50 through 00 to +/- 450</p> <p>Graduation of Degree - 50 through 00 to +/- 450</p>	
177	<b>Precision Pyranometer</b>	<p>Weight 15 kg</p> <p>Material Anodised Aluminium</p> <p>Function Forming a diffusometer when combined with a pyranometer</p> <p>Diffusometer measurand Diffuse solar radiation in W/m<sup>2</sup></p> <p>Ring inner diameter 476 x 10 power-3 m</p> <p>Range of 150- 1200 W/m<sup>2</sup></p> <p>Accuracy is better than 3%.</p>	

178	<b>Shading Ring</b>	<p>Weight 15 kg</p> <p>Material Anodised Aluminium</p> <p>Function Forming a diffusometer when combined with a pyranometer</p> <p>Diffusometer measurand Diffuse solar radiation in W/m<sup>2</sup></p> <p>Ring inner diameter 476 x 10 power-3 m</p> <p>Ring width/radius ratio. -40 to +80 °C</p> <p>Accuracy: +/-1%</p>	
179	<b>Water flow meter</b>	<p>Description MASS FLOW METER</p> <p>Detailed Description Air Flow Sensor 5 SLPM Female, 1/2" inch BSPT</p> <p>Moderate accuracy, typically ±2% of reading (steam) and ±1.5% (condensate).</p> <p>Can measure flow rate in large pipelines (&gt; DN400)</p>	
180	<b>Spectral response meter</b>	<p>Mobility Portable</p> <p>Data Output Port USB</p> <p>Display Digital</p> <p>Usage / Application Industrial Use, Laboratory Use</p> <p>Country of Origin Made in India</p> <p>Product Type Spectrophotometer</p> <p>Light source : 50W Halogen lamp</p> <p>Wavelength range : 400 nm to 1200 nm</p> <p>Chopper frequency : 400 Hz</p> <p>Bias light : 3W White LED</p> <p>Sample size : Up to 50 mm</p> <p>Main Mirrors : Enhanced Aluminium Coating</p> <p>Focal Length : 300 mm</p> <p>Dispersion Element : Holographic Grating</p> <p>Grating Density : 1200 l/mm</p> <p>Filter unit : Higher order cut off filter wheel</p>	
181	<b>Water flow meter</b>	<p>1. Flow range Water 2.5 l/h to 200 cubic m/h Air 0.07 to 4500 cubic m/h (201.013bar)</p> <p>2. Flow span: 10:1</p> <p>3. Accuracy Standard accuracy: 1.5% Max. Allow. pressure: 250 bar</p>	



		<p>4. Temperature range Fluid temperature -40 to +200 Standard type</p> <p>6. Ambient temperature: -40 to +70 degree Celsius</p> <p>7. Supply power: 12-28V DC two-wire system battery power</p>	
182	<b>Fuel efficiency monitor</b>	<p>1. Ranges: Oxygen 0 – 25.0 %, Carbon Monoxide 0 – 5000 ppm and Temperature: 0 – 600 °C</p> <p>2. Display: 16 x 2 Alphanumeric LCD Display, backlit.</p> <p>3. Sampling: In-built pump (200mm Hg suction, 1.5 LPM Air Flow) with Switch</p> <p>4. Ambient Temperature: 5°C To 50°C</p> <p>5. External Probe: Suitable for drawing, filtering, cooling and drying the sample gas 450mm for 600 °C and 1000mm for 1200 °C</p> <p>6. Memory: 63 records stored in the memory</p> <p>7. Output Indication: % CO<sub>2</sub>, % Excess Air, Efficiency based on Gross and Net Calorific Value</p> <p>A serial output for computer and serial printer</p>	
183	<b>Portable power analyser</b>	<p>1. Parameters: 600v-80A</p> <p>2. Display Type: Digital</p> <p>3. Phase: 3</p> <p>Accuracy: 0.1%</p>	
184	<b>Power quality Manager/ Three and Single Phase power analyser for balanced/ unbalanced loads</b>	<p>1. Display Type: Digital</p> <p>2. Phase: Three Phase</p> <p>3. Accuracy: 0.2 Class</p> <p>4. Frequency: 60 Hz</p> <p>5. Range of Voltage: 10 V to 600 V</p> <p>6. Range of Current : 80 mA to 80 A</p> <p>Power Source: Electric</p>	
185	<b>Leak detectors</b>	<p>Detector Type: Portable Single Gas</p> <p>Name of Gases Detected: EX/ LEL GAS DETECTOR</p> <p>Power Source: Battery</p> <p>Display Type: Digital</p> <p>Measuring Range: 0-100% LEL</p>	
186	Thermal Cycler	<p>Model : T100</p> <p>Should have a sample capacity of 96x0.2ml tubes, 0.2ml tube strips or 1x96-well plate with Peltier heating and cooling.</p> <ul style="list-style-type: none"> <li>• Should have gradient capability</li> <li>• Should have the feature of dynamic ramping (identical hold times) for all the 8 rows of a gradient.</li> <li>• Should have a temperature differential range of 1-25 deg C.</li> <li>• Should have intuitive 5.7" (14.5 cm) touch screen interface which can displays graphics in high resolution for easy programming.</li> <li>• Should be capable of running reaction volumes from 1-100ul.</li> <li>• The touch screen should be responsive for both gloved and ungloved fingers.</li> <li>• Should have a maximum ramp rate of 4 deg C/sec. with an average ramp rate of 2.5 deg C.</li> <li>• Should have a temperature range of 4-100 deg C.</li> </ul>	

		<ul style="list-style-type: none"> <li>• Should have a gradient range of 30-100 deg C</li> <li>• Should have a temperature accuracy and uniformity of <math>\pm 0.5</math> deg C</li> <li>• Should have a memory of &gt;500 programs with further expansion through a USB Flash drive for transfer of files.</li> <li>• Should have block and calculated temperature control modes.</li> <li>• The software should have exportable Run logs and system error logs</li> <li>• Should have quick boot up time of not more than 1 min.</li> <li>• Should be quiet in operation.</li> <li>• System should have built in library of standard protocols for long PCR, fast PCR, reverse transcription PCR etc.</li> <li>• Should have the feature of “instant incubation” to keep samples at constant temp. for ligation and restriction digests.</li> <li>• Should have power save mode.</li> <li>• Should be compatible with all kind of plastic consumables and reagents specially reusable sealing Mats.</li> </ul> <p>Should be licensed for both diagnostic and research applications. A copy of license should be attached.</p>	
187	Gel documentation system	<p>Model- Gellite</p> <p><b>Hardware</b></p> <ul style="list-style-type: none"> <li>• Versatile and easy to use Gel documentation system for Protein, DNA and Spot blot applications.</li> <li>• System should have <b>Image resolution 5 mega pixels</b> for resolving closely spaced bands on a gel or blot.</li> <li>• Image depth : 12/16 Bit</li> <li>• Grey Scale: 4096/65536</li> <li>• Dynamic range: 3.6 to 4.8</li> <li>• Lens: Manual Zoom 6.5- 49 F1.4.</li> <li>• Should have large viewing area: size 20x20 cm</li> <li>• System Should Come with EPI White LED light illumination, Trans UV illuminator -302 NM</li> <li>• System should have option for UV to blue light conversion screen for Safe dyes to be quoted in option.</li> <li>• System should have safety switch: override UV protects from accidental UV exposure when opening the door.</li> <li>• System should have 1 year’s warranty.</li> </ul> <p><b>Software</b></p> <ul style="list-style-type: none"> <li>• System should come with intuitive software for the control and image capture and Analysis.</li> <li>• Date type: SGD,BMP,TIFF and JPEG</li> <li>• Should have features like Image acquisition with a single button, Auto exposure/manual exposure/series capture</li> <li>• Toolbox - annotation/sharpening/inverting.</li> </ul>	

		<ul style="list-style-type: none"> <li>• Saturation control to see which area of the image are over exposed.</li> <li>• Dynamic Fielding for correction of uneven background and illumination.</li> <li>• Analysis software should have following feature</li> <li>• 1D analysis at the ‘click’ of a button,MW/BP calibrations,Quantity calibrations, Spot blot/colony plate analysis, Band matching functions.</li> <li>• Software should Create cluster analysis diagrams</li> <li>• Analysis software should be multiuser licensed should be able to load on unlimited number of PC/Laptops with CE certified.</li> </ul> <p>Suitable laptop with minimum specifications of Core I3/4GBRAM/1TBHDD/Window 10 Pro should be provided with the system.</p>	
188	Refrigerated Table Top Centrifuge	<p>Model – Megafuge 8</p> <ul style="list-style-type: none"> <li>• Drive : Brush Free Induction Drive</li> <li>• Control : Microprocessor Controlled “Easy Control II”</li> <li>• Panel Displays : Self Explanatory Symbols</li> <li>• Max. Speed : 15,000 rpm adj. In steps of 10 rpm, 300 rpm minimum</li> <li>• Max. RCF : 21,885 X g</li> <li>• Max. Capacity : 4 X 100 ml Swing Out Rotor, 8 X 50 ml Swinging Bucket Rotor</li> <li>• Rotor Recognition : Automatic</li> <li>• Accel. / Breaking Profiles : 2 / 9</li> <li>• Functions : RCF – pre selection, quick – run</li> <li>• Rotor Detection : Automatic</li> <li>• Imbalance Detection : Electronic, optimal adjusted at all rotors</li> <li>• Temp. Range : -9 to +40°C, Minimum temp. at max. speed 4°C</li> <li>• Pre Cooling Function – Direct with Button’</li> <li>• Pulse Run – Yes</li> <li>• Program - 3 direct and 96 additional program accessible via folder</li> <li>• Noise at max. speed : &lt; 60db</li> <li>• Centrifuge Chamber – Stainless steel</li> <li>• CFC Free Refrigeration System</li> <li>• Power Consumption : 490W, 230V, 50Hz</li> <li>• Auto Lock Rotor Exchange for application Flexibility</li> </ul> <p><b>With Fixed Angle Rotor</b></p> <ul style="list-style-type: none"> <li>• Microliter Rotor 45°</li> <li>• Max. Capacity : 24 X 1.5/2 ml</li> <li>• Max. Speed : 15,000 rpm</li> <li>• Max. RCF : 21,885 X g</li> <li>• Minimum Temp. at maximum speed : 4°C</li> <li>• Adapter for 0.2 ml Tubes</li> </ul> <p><b>Swinging Bucket Rotor</b></p> <ul style="list-style-type: none"> <li>• Max. Capacity : 8 X 50 ml</li> </ul>	

		<ul style="list-style-type: none"> <li>• Max. Speed : 4,500 rpm</li> <li>• Max. RCF : 3260 X g</li> <li>• Adapter for 15 ml tubes</li> <li>• Adapter for 50 ml tubes</li> <li>• Minimum Temp. at maximum speed : -1°C</li> </ul> <p>Availability of Drum Rotor for 80 Microlitre Tubes &amp; Large Number of PCR Strips for Future</p>	
189	Manual Paneer Press Machine	Production capacity-10kg, Material – SS (304 grade), Packing type- Box, Design type- Standard	
190	Kulfi Making machine (2 Moulds)	Min. 50 kulfi making capacity, Electrically operated, SS material, Voltage-230V, Power- 700 to 800W, Compressor-Emerson / Standard, Output- 30to 40 lit/hr., Design-Customized, Operation Mode- Automatic, Brand- Coolex or other standard	
191	Deep Freeze	Godrej/ Blue Star/ Voltage, Etc, Capacity-300lit	
192	Grander	Grander / Mixture ,	
193	Plastic pouch sealing	Handy, electrically operated Plastic pouch sealing machine	
194	Milk Pouch Machine(Automatic form fill & Seal Machine to pack milk in poly pouches)	<p>The machine consists of Former Collar, Vertical sealer, Horizontal sealer and Motor gear box drive etc. The LDPE or impulse heat sealable film roll (325 mm width) is kept on the Roller and film is loosened by the mechanical arm. The vertical sealer it to form the tube. Then the rubber roller pulls the bag to predetermined length. At next stage this tube get filled with LIQUID. Horizontal Sealer cuts it to pouch. Machine with continuous injection system, automatic form fill &amp; seal to pack milk pouches</p> <p>Type:- Fully Mechanical/Automatic, Range:- 250 ml, 500 ml &amp; 1000 ml, Capacity/Speed:- Min 1200 Pouch per hour, Sealing Type:- Center Seal, Film Roll:- 325 mm width, Supply Voltage:- 230 V.A.C. Single Phase or 440 V.A.C. Three Phase, Contact Parts:- S. S. Cabinet and all contact parts with Stainless Steel material or Equivalent with high grade alloy material, Price Coding System:- Frictional Type with fast dry ink (Optional Extra) Storage Tank:- Intermediate 15-20 ltr</p>	
195	Khoa Making Machine	Batch type, Solar Ark, 30 Lit Cap., Gas Operated, SS plate with all accessories as per makers standard	
196	MilKo Tester	Digital Electronic Milko tester for testing of Milk Fat, Protein, Added Water, SNF, TSS, etc as per makers standard	
197	Brush Cutter	For fodder cutting, Model- FS-230 Company-STIHL	
198	High Pressure Cleaning Machine	Cow shed cleaning pump with compressor, Material-Mild steel, Voltage-220v 1.5 HP 30 LPM flow rate, Weight-288 gms	
199	Milk Adulteration Detection Kit	For testing adulterations in milk , as per makers standards	
200	Students Microscope	For students practical's on microscopic Ollumpus	
201	Electric Brooder	For Poultry 5 KW for 2500 birds, area covered 388 M <sup>3</sup> Make : Standard SKU:PH-ZP-20220260	
202	Gas Brooder for Poultry	40KW for 1000 to 1500 birds ares covered 185 Sq.m. Make Standard SKU:PH-ZP-20220242	
203	Automatic Incubater for Hatchin	For hatching of poultry eggs, AC voltage-220V, Capacity-600, Efficency- 90 to 95%, Phase- Single, Product Type-Egg Incubator/ hatching	

204	Automatic poultry De - Beaker machine	Beak Trimming _ Standard, Cutting Blade- 600-800 degree celcius, , Grade- Automatic, weight-7 kg. Bird type- Chiken, Dimensions- 14.57X 8.66X 7.87 inches.	
205	Poultry De feathering Machine	Bird type- Chiken, Head Type Round, Bird capacity – 5birds,Motar power- 1 HP, Phase – Single, Voltage- 220V Material SS203,302, Brand – Deccan,	
206	Chicken Cutting Machine	Automatic Chicken Cutting Machine, 0.5 HP, Size 8 to 10 inch cutting slices, SS body material easy to clean,SKU :PD-KTC-20223289	
207	Fogger system	For dairy farm Brand- Vetfits Material- PVC	
208	Chaff cutter Elctrical	Material – MS body, Power- electric motor -3 HP RPM-3600, Voltage-220v, Weight- 80kg Capacity-1500-1800kg /hour, Blades -4	
209	Chaff cutter Hand operated	Capacity-200 kg/hour Material- MS body	
210	AMPLIFIER SSA250M, (PA Systems)	<ul style="list-style-type: none"> <li>* 6 Mic &amp; 2 Aux Inputs</li> <li>* Preamplifier and Line Output for connecting to a Booster Amplifier and for recording the programme</li> <li>* Line Input for connecting the output from any external mixer or permitting SSA- 250 to be used as a Booster Power Amplifier.</li> <li>*Resettable circuit breaker for protection against overload and short circuit.</li> <li>*Instant transfer to DC power (Car Battery) if AC power fails</li> </ul>	
211	AWM-495V2 Dual Hand Wireless Microphone	<ul style="list-style-type: none"> <li>* Sleek in terms of design</li> <li>*Scores high on the aspect of functionality</li> <li>*Designed as per the latest industry standards</li> </ul>	
212	Cabinet Loudspeaker SRX-510 PA	<ul style="list-style-type: none"> <li>*Professional 2-way speaker system with exceptional efficiency, long throw and unmatched intelligibility of sound.</li> <li>*It consists of two 38.1cm (15”) high performance full range dual cone speakers and a High frequency compression driver.</li> <li>*The speaker system is housed in an acoustically treated Bass Reflex Trapezoidal with durable paint finish enclosure.</li> <li>*The cabinet has been fitted with heavy-duty handles to allow ease of transportation and a strong steel grille for speaker protection.</li> <li>* Ideal for both indoor and outdoor sound reinforcement applications.</li> <li>*Specially designed for Auditoriums and DJs.</li> </ul>	
213	Camera	<ul style="list-style-type: none"> <li>*Sensor size</li> <li>*Megapixel resolution</li> <li>*Image quality</li> <li>*Video Making in full HD</li> <li>*Compatibility with various lenses</li> <li>*Shutter and autofocus speed</li> <li>*Many ways to control the camera</li> <li>*Optical viewfinder</li> </ul>	

		*Accessories of camera	
214	Studiomaster AIR 8U Analog Mixing Console	*PSL Preamps *Hybrid Control mixing desk *Bluetooth 4.0 compatible *USB Playback & Recording	
215	VGYAAN   Audio 60W Powered Podium Lectern with Built-in Speakers and Gooseneck Microphone (Black)	*VGYAAN Audio Podium is best suited for use in conference rooms, auditoriums, classrooms, offices, banquet halls, restaurants, valets, and other public spaces. *Includes gooseneck dynamic microphone and gooseneck LED lamp, one tweeter with Built-in 60-watt amplifier and high quality speakers. *The podium is 43 inch in height which makes it accessible for almost every person of average height to have a clear view of the audience in front. *Smart & Robust design with two VHF handheld wireless mic with range 15-20M, One Button ON/OFF, Built in Control Panel, 1 AUX input independent control, Short circuit clipping and high temp protection, 24V phantom power, 3 MIC input independent control. *Minimalist design to compliment any room décor or stage set. It has an attractive look and eloquent design.	
216	Amplifiers 800 PA, Uba-800 )	* Power Supply: AC: 220-240V 50/60Hz *Power Consumption: 1500 VA *Dimensions: W482 × H186 × D530 mm	
217	Mixer Amplifier TZA2000DP 2 Zone PA	* 6 Mic, 2 Aux Inputs and CD/Stereo input (L&R) * Built-in MP3 player with remote control for USB, SD/MMC card reader. * TZA-2000DP is ideal for medium sized installations such as in places of worship where two separate groups of speakers are needed to be connected.	
218	<b>Auto Sterilizer aid</b>	<ul style="list-style-type: none"> <li>• Hassle free complete sterilization within 5-7 seconds at temp of 1500<sup>0</sup>F (815<sup>0</sup>C)</li> <li>• Utilization of ceramic core element to ensure absolute sterilization</li> <li>• Sterilization based on infrared heat</li> <li>• Adjustable angle of heater to ensure sterilization of various surface area with different heights</li> <li>• Heater angle adjustable</li> <li>• Length of sterilizer heater 200mm</li> <li>• Ideal sterilization system for aerobic or anaerobic areas</li> </ul> Power requirement AC220V, 50/60Hz	
219	<b>Distillation unit</b>	<ul style="list-style-type: none"> <li>• LED Indicator</li> <li>• Energy efficient and eco-friendly</li> <li>• Machine auto cut when water is over in the chamber</li> <li>• With collection chamber for easy storage</li> <li>• External body of machine is made up of engineering plastic and interior chamber is made up of stainless steel</li> <li>• Water tank capacity should be min 4 lit</li> <li>• Water distillation capacity min 1.5 to 2 lit/hour</li> </ul> In-built fan cooling system for condensation	

220	Stereo Microscope	<ul style="list-style-type: none"> <li>• Apochromatic stereomicroscope system with a zoom ratio of 8:1 or higher.</li> <li>• The observation tube should be a trinocular eyepiece tube with camera port, with an eyepiece tube inclination/viewing angle of 35-38 degrees. The eyepieces 10x/23 (x2) should have adjustable diopters and should be suitable for eyeglass wearers and noneyeglass wearers.</li> <li>• The entire optics should be apochromatically corrected, with a total magnification of 6.3x-50x or greater (with 1.0x objective and 10x eyepiece).</li> <li>• The microscope should have a resolution of 250 lines per mm or higher.</li> <li>• The eyepiece should be 10x(pair) with a field of view 23mm or more with diopter adjustment for both eyes.</li> <li>• The objective should have a working distance of 90 mm or better.</li> <li>• The microscope should have an incident light base with black &amp; white stage plate, Approx. Dim. (LxWxH) 277 mm or higher x 200 mm or higher x 22-30 mm.</li> <li>• The microscope should have a focus column of height 200-250mm, max. focus travel range 138-145 mm or greater, with adjustable focus drive.</li> <li>• Illumination: Spotlight illumination with 2-arm Gooseneck, with 2 Hi-Power LEDs.</li> </ul> <p>Anti-mold design to ensure protection from contamination while working in hot and humid environments.</p>	
221	<b>Smart Digital Classroom</b>	<p><b>a)SG75A118128IFP:- 75 “ and SG86A118128IFP 86” Interactive flat panel</b>  4K resolution,zero bonding ,smart interactive panel with Interactive software ,Optacode processor,HDMI out,C type port x 2 , Whiteboard software able to run video within software, 9H protection Glass , Android 11 with Smart and active Play store, 8GB ram,, 128GB builtin storage, <b>OPS:-</b> Windows 10 License,Intel coreI5 processor 10<sup>th</sup> generation,8GB DDR4,512GB SSD,wifi,Bluetooth,C port <b>.SAGA smart Interactive Software,3 years warranty .</b></p>	
222	<b>PTZ camera :- SGVCHD920U20-P5(20X)</b>	<p>Sensor :- ½.8” Type Exmor CMOS  Effective Pixel :- 2.1 Megapixel  Focal Length :- F=4.7-94mm F 1.6- F3.5  Focus :- Auto Focusing  Optical Zoom :- 20X ( Qty :-2 No)</p>	
223	<b>Metalic Digital Podium :- SGDP1200.</b>	<p>22 inch Touch monitor,60w amplifer,2 wall mounted speaker,1 Gooseneck Mic,1 wireless hand and collar Mic , Doc cam, PC I3,4 GB,500GB,Wireless Keyboard &amp; Mouse, Button Controller &amp; Button Hydraulic.</p>	
224	<b>Gel Documentation Model Gusto</b>	<p>Fully Automatic and Microprocessor Controlled System</p> <ul style="list-style-type: none"> <li>• High Resolution CCD Camera (5 megapixel) with image capturing capacity in light intensity as 0.00035 Lux</li> <li>• Camera fully housed in darkroom, free from dust and vibrations</li> <li>• Motorized Zoom lenses</li> <li>• Provision of Standard 302 nm UV transilluminator wavelength with UV intensity more than 1000 uw / cm2</li> </ul>	

		<ul style="list-style-type: none"><li>• Provision of Epi White Light</li><li>• Comes with White Light Board</li><li>• Drawer system for easy handling of gels</li><li>• Provision of professional 590 nm multi-layer coating filter</li><li>• Dual control system for mainframe and computer</li><li>• Automatic image acquisition software that controls camera, lenses and image capture</li><li>• Auto shut down UV light when door opens.</li><li>• Comes with Gel Cutting Hood</li><li>• UV Light protection system automatically shut down light after 15 minutes to minimize lamp light</li><li>• Filter area : 250mm x 200mm</li></ul>	
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