











S.No.	Name of Item/Description		
1.(i).	<p>‘MSI’ LAMINAR FLOW SYSTEM MODEL LFS-HERT-42: - The basic elements of our ultra clean Air System is pre-filters, heavy-duty blowers assembly, HEPA (High Efficiency Particular Air) filters that filters almost all impurities of size 0.3 micron and larger. Double filtrated Laminar Flow Air Blows downward through the worktable at a nominal velocity of approx. 90ft/mt. The Laminar flow air meets the specifications of class 100 of U.S. Federal Standard 209B.</p> <p>Construction: - Basic material is ¾” wood which is termite and insect proof, weather resistant, acoustically superior, structurally strong and dimensionally stable, chosen specially for its sound & vibration damping characteristics. All joints are routed (not but joints) and bounded with adhesive secured with screws/nails. Front and side panel exterior are covered with Formica Lamination of white color or any color of your choice (subject to availability). Filter sets is carefully formed, installed and checked for leakage Inside of the structure is nicely filled with fine filler for smooth surface and then nicely painted in white enamel paint.</p> <p>Work Table: - Stainless Steel or Mica top as desired.</p> <p>Side Panels: - Perspex sheet with anodized/wood frame.</p> <p>Motor & Blower/ Electric System: - Motor blower assembly running smooth and silently with minimum noise damping acoustically superior paint etc. Vibration are controlled by mounting anti vibration device so that precision work can be carried out or Microscope can be used easily within working surface. Cap.750cufm. Air ejection velocity: 1640ft/sec. +/-20%. The Control Panel comprising of Main Switch, UV Light switch, Fluorescent light All the switches are nicely placed with the Indicator bulbs. Main lead approx.3mtr. Long is provided. Work on 220/230/V AC mains.</p> <p>Technical Specifications: Work Area: 2’x2’x2’ Horizontal Laminar Flow, No. of Pre filters: 1no. No. of HEPA filters: 1no. Illumination: 1x20W Fluorescent tube/CFL light, Heavy Duty Blower: Blower to ensure minimum vibration on the work table and Housing etc. Plexiglas transparent front door made from 4/5mm thick Plexiglas. Built in stopcocks for gas, air or vacuum lines.</p> <p>Complete system as above</p> <p>(ii). Working Size 3’x2’x2’</p> <p>(iii). -do- 4’x2’x2’</p> <p>(iv). -do- 6’x2’x2’</p> <p>a. Laminar Air Flow (Horizontal) Complete s. s. Body</p> <p>(i). Working Size 2’x2’x2’</p> <p>(ii). -do- 3’x2’x2’</p> <p>(iii). -do- 4’x2’x2’</p> <p>b. VERTICAL VERSION SAME AS ABOVE BUT</p> <p>(i). Working Size 2’x2’x2’</p> <p>(ii). -do- 3’x2’x2’</p> <p>(iii). -do- 4’x2’x2’</p> <p>(iv). -do- 6’x2’x2’</p> <p>c. Laminar Air Flow (Vertical) Complete s. s. Body</p> <p>(i). Working Size 2’x2’x2’</p> <p>(ii). -do- 3’x2’x2’</p> <p>(iii). -do- 4’x2’x2’</p> <p>d. Steriflow Portable Laminar Air Flow for field use</p> <p><u>Accessories at extra cost:</u></p> <p>e. S. S. Table in place of Mica top.2’ in wooden LAF</p> <p>f. -do- 3’</p> <p>g. -do- 4’</p> <p>h. -do- 6’</p> <p>i. Manometer</p> <p>FREE INSTALLATION & DEMONSTRATION AT SITE WITH 5-YEAR GUARENTEE AGAINST ANY MANUFACTURING DEFFECT WITHOUT ELECTRICAL PARTS.</p>	 <p>Laminair Flow Horizontal</p>	
		 <p>Laminair Flow Vertical</p>	


2	<p>Laminar flow Clean Bench (Self standing Type) 1200mm LCB-1201V Make: Daihan Labtech. ISO 14644-1, ISO Class 5 (Class 100) Standard Compliance HEPA filter removes 99.99% of 0.3um Particles Easy to Replace Filter From the Back Panel with maintenance free design and structure Laminar Air flow and uniform air velocity provide high clean filter air for high performance Built-in Lamps and utilities UV and fluorescent lamp, air and gas cock, power consent are built as standard</p> <ul style="list-style-type: none">❖ Filter Replacement warning signal by pressure gauge & Controller display❖ Built-in Mesh guard for Filter protection❖ One touch open front panel for easy maintenance❖ UV Sterilization with on/off working timer❖ Option: ULPA Filter 99.999% of 0.3um particle removal <p>Air Leak Proof Cabinet Structure with high clean stainless steel interior work station and epoxy powder coated steel exterior for long durability Tempered Safety Glass Sliding Door for maintain high quality cleanliness and for protection from UV exposure Low Noise Level and Vibration Free 56~60dB high efficiency sirocco fan blower Microprocessor Digital Controller with LCD back light display</p> <table><tr><td colspan="2">Model</td><td>LCB-1201V</td></tr><tr><td>Dimensions</td><td>Inner</td><td>1190 x 550 x 650</td></tr><tr><td>(W x D x H mm)</td><td>Outer</td><td>1350 x 800 x 1880</td></tr><tr><td>Air Volume</td><td></td><td>1350m³/h</td></tr><tr><td>Controller</td><td></td><td>9 stage velocity control, Total using timer, UV/FL Lamp on/off</td></tr><tr><td>HEPA Filter</td><td></td><td>Class 100, purity 0.3um Particle Removal 99.99%</td></tr><tr><td>Prefilter</td><td></td><td>3~30um Particle Removal</td></tr><tr><td>Noise Level</td><td></td><td>56~60dBA</td></tr><tr><td>Light</td><td></td><td>UV 20 W x 1 EA, FL 20W x 1EA</td></tr><tr><td>Material</td><td>Interior</td><td>Stainless Steel 304</td></tr><tr><td></td><td>Exterior</td><td>Epoxy Powder Coated Electro Galvanized</td></tr><tr><td>Steel</td><td></td><td></td></tr><tr><td>Door</td><td></td><td>Tempered Safety Glass Sliding Door</td></tr><tr><td>Utility Device</td><td></td><td>Air Cock, Gas Cock, 220V Consent</td></tr><tr><td>Electric Supply</td><td></td><td>220V, 50Hz</td></tr></table>	Model		LCB-1201V	Dimensions	Inner	1190 x 550 x 650	(W x D x H mm)	Outer	1350 x 800 x 1880	Air Volume		1350m ³ /h	Controller		9 stage velocity control, Total using timer, UV/FL Lamp on/off	HEPA Filter		Class 100, purity 0.3um Particle Removal 99.99%	Prefilter		3~30um Particle Removal	Noise Level		56~60dBA	Light		UV 20 W x 1 EA, FL 20W x 1EA	Material	Interior	Stainless Steel 304		Exterior	Epoxy Powder Coated Electro Galvanized	Steel			Door		Tempered Safety Glass Sliding Door	Utility Device		Air Cock, Gas Cock, 220V Consent	Electric Supply		220V, 50Hz		
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<p>4.</p> <p>(i).</p> <p>(ii).</p> <p>(iii).</p> <p>(iv).</p> <p>a.</p> <p>b.</p>	<p>‘MSI’ Biological safety Cabinet Biosafety hood level –III Biological Safety Cabinet are designed as per the US federal Standards of class 100 Laminar Air flow Biological Safety Cabinets. The equipment is provided with the Burn-out cabinet for the safety of the operator. Its noise level (max.) 62 dB provides almost noiseless environment to the operator. Environmental air is drawn by a balanced Centrifugal blower through pre filters retaining more than 75% of particles larger than 5 microns and is thrown onto work chamber through high efficiency HEPA filter.</p> <p>Pre filters: Fabricated out of washable synthetic non woven media. The material is moisture-fungus-bacteria and frost resistant and are mounted on sturdy frame. The filters are DOP tested as per standard BS: 283 I and are 90% efficient down to 5 micron with IPD 5mm WG at rated flow up to 1000 cfm +/- 20%. HEPA filters: Standard sizes used are made out of micro glass fiber with aluminum foil separates and mounted in anodized aluminum frame sealed with epoxy and is provided with rubber gaskets. HEPA filters 99.97% efficiency down to 0.2-0.3 microns are protected by expanded metal sheet mesh or equivalent material. Filters are DOP tested with IPD less than 18mm WG and FPd less than 40mm WG at rated flow up to 1000cfm +/- 20% and also tested as per standard US Fed. Standard -209B</p> <p>Blower Unit: Assembly consist of suitable motor as per IS 996-1979 working on 220V AC 50 Hz single phase, dynamically and statistically balanced blowers make the unit least vibrant with minimum noise (DB) level.</p> <p><u>Specifications:</u></p> <p>Lighting : SUITABLE FLOURESCENT TUBES SETS, 20/40 WATT</p> <p>Sterilization : germicidal UV tube 15/30 watt.</p> <p>Manometer : Accurately calibrated to assess Static pressure in HEPA chamber ,made of plexi glass block.</p> <p>Air Flow : ertical type @ 90 (approx) feet per minute (FPM)</p> <p>Gas & Vacuum Lines : Fittings made of brass, duly chrome plated.</p> <p>Collapsible Sash : Renders unit convertible for use as a Conventional laminar flow clean air work Station.</p> <p>Exhaust System : Protects ambient environment, and avoids built up, air Borne particles with the help of special filter.</p> <p>Optional :</p> <p>Supplementary Air Barrier : Prevents contamination through make up air.</p> <p>Re-Circulatory system : with vertical air re-circulation offering highest level of cleanliness.</p> <p>Fumigation Tray : for effective disinfection/decontamination.</p> <p>Magnehelic Manometer : The Magnehelic Manometer can be replaced with standar manometer on Instructions.</p> <p>Exhaust ducting. : PVC Rugged shall be provide extra. Exhaust system, suitable for 4 ft. dia. virus Burn out unit (with UV lamp) Exhaust ducting. atextra cost.</p> <p>Working Size.</p> <p>2’x2’x2’</p> <p>3’x2’x2’</p> <p>4’x2’x2’</p> <p>6’x2’x2’</p> <p><u>Optional:-</u></p> <p>Exhaust ducting per running feet.</p> <p>Gas Burner for above.</p>	 <p>Wooden</p> <p>60000.00</p> <p>71000.00</p> <p>81500.00</p> <p>103500.00</p>	
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5.	<p>Biohazard Safety Cabinet (Self Standing Type) LCB-1203B -A2 Make: Daihan Labtech. ISO 14644-1, ISO Class 5 (Class 100) Standards Compliance HEPA filter removes 99.99% of 0.3um particles Easy to Replace Filter From the Front Panel with maintenance free design and structure Air flow and uniform air velocity provide high clean filter air for high performance Built-in Lamps and utilities UV and fluorescent lamp, air and gas cock, power consent are built as standard</p> <ul style="list-style-type: none">❖ Easy to replace Filter in front panel❖ Built- mesh guard for Filter protection❖ Removable Working Tray easy to clean and disinfection for working zone❖ One touch open front panel for easy maintenance❖ Maximum Door Opening Alarm to protect air flow performance and safety❖ UV Sterilization with on/off working timer <p>Air Leak Proof Cabinet Structure with high clean stainless steel interior work station and epoxy powder coated steel exterior for long durability Tempered Safety Glass Sliding Door for maintain high quality cleanliness and for protection from UV exposure Low Noise Level and Vibration Free 56~60dB high efficiency sirocco fan blower</p> <table><tr><td>Model</td><td colspan="2">LCB-1203B-A2</td></tr><tr><td>Dimensions</td><td>Inner</td><td>1190 x 600 x 635</td></tr><tr><td>(W x D x H mm)</td><td>Outer</td><td>1350 x 800 x 1880</td></tr><tr><td>Air Volume (Approx.)</td><td></td><td>1350m³ / h</td></tr><tr><td>Microprocessor Digital Controller</td><td colspan="2">Air velocity and temperature monitoring, automatic air velocity control low air velocity visual & audible alarm, filter using & change time alarm clock and timer, auto stop for door excess open</td></tr><tr><td>HEPA Filter</td><td colspan="2">Class 100, purity 0.3um Particle Removal 99.99%</td></tr><tr><td>Air flow velocity</td><td>Down flow</td><td>0.3~0.36m/sec</td></tr><tr><td></td><td>In flow</td><td>>0.5m/sec</td></tr><tr><td>Noise Level</td><td colspan="2">56~60dBA</td></tr><tr><td>Light</td><td colspan="2">UV 20W x 1EA, FL 20W x1EA</td></tr><tr><td>Material</td><td>Interior</td><td>Stainless Steel 304</td></tr><tr><td></td><td>Exterior</td><td>Epoxy Powder Coated Electro Galvanizer Steel</td></tr><tr><td>Door</td><td colspan="2">Tempered Safety Glass Sliding Door</td></tr><tr><td>Utility Device</td><td colspan="2">Air Cock, Gas Cock, 220V Consent</td></tr><tr><td>Electric Supply</td><td colspan="2">220V 50Hz</td></tr></table>	Model	LCB-1203B-A2		Dimensions	Inner	1190 x 600 x 635	(W x D x H mm)	Outer	1350 x 800 x 1880	Air Volume (Approx.)		1350m ³ / h	Microprocessor Digital Controller	Air velocity and temperature monitoring, automatic air velocity control low air velocity visual & audible alarm, filter using & change time alarm clock and timer, auto stop for door excess open		HEPA Filter	Class 100, purity 0.3um Particle Removal 99.99%		Air flow velocity	Down flow	0.3~0.36m/sec		In flow	>0.5m/sec	Noise Level	56~60dBA		Light	UV 20W x 1EA, FL 20W x1EA		Material	Interior	Stainless Steel 304		Exterior	Epoxy Powder Coated Electro Galvanizer Steel	Door	Tempered Safety Glass Sliding Door		Utility Device	Air Cock, Gas Cock, 220V Consent		Electric Supply	220V 50Hz			
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a.	<p>Essential Accessories: Microprocessor Digital Controller with LCD back light display Air Velocity Control & Alarm System Temperature Monitor at Working Zone</p>																																															
6.	<p>‘MSI’ Fume Hood: Fume Hood made of waterproof laminated Board with outside laminated with Formica of white or any desired color. Fitted on stand nicely painted. With door opening with glass window nicely framed. Two side glass windows for viewing are provided. One Washbasin with Swan neck tap is provided for water supply. 2no. Fluorescent tube light and one multipurpose 15 amp. Plug socket is also fitted on the inner chamber. Hazardous fumes and odor is thrown out by a heavy duty exhaust fan/blower of standard make. (1/4 HP approx) We will provide exhaust line fitting upto the back of the Fume chamber. (If the fume duct is to be taken high in the sky then ducting charges extra) (All meson work to your account).</p>																																															


(i). (ii). (iii). (iv). (v). a.	Working size: 4'x2'x2' 6'x2'x2' 5'x3'x2' 7'x3'x3' 8'x3'x3' Ducting charges by PVC pipe and canopy on the top.	 Fume Hood	
7.	Fume Hood 155x750x2250 LFH-150CI. Make: Daihan Labtech. ❖ Durable Hazardous Chemical Gas Remove ❖ Wide variety of Material for User Selection ❖ Slide Type Sash Door with Tempered Safety Glass ❖ Powerful Siroco Fan Blower Model LFH-150 SCI. Dimensions (W x D x H mm) 1555x750x 2250 Air Volume 1440CMH Blower (Sirroco Fan) 400W Material Inner Stainless Steel Outer Powder Coated Steel and Stainless Steel Frame Work Top Synthetic Ceramic Plate Utility Device Air Cock, Gas Cock, Water Cock, Cup Sink Drain Explosion Proof Lamp, Power Ports x 2 Duct Diameter 200mm Electric Supply 220V, 50Hz		
a.	Essential Accessories:		
b.	Built-in Utility Device		
	Ducting charges by PVC pipe and canopy on the top.		
8.	'MSI' Inoculation Chamber: Made of Sun mica clad thick wooden board and plywood at back. Thick non ratting Plexiglas windows provided on two sides and front folding glass door. Inside sun mica clad. Lower portion is provided with glove ports and gauntlets on front window. Provided with one fluorescent tube and one UV tube. <u>Size.</u> <u>Body of full S.S.</u> (i). 27"x20"x16". (ii). 40"x24"x22" <u>Size.</u> <u>Body of Wood /Mica laminated</u> (iii). 27"x20"x16". (iv). 40"x24"x22".	 Inoculation Chamber	
9.	'MSI' Air Curtain: These are a modern device which, when installed on a door, forms an invisible curtain of continuous air and thus prevents escape of conditioned air and entry of outside hot, humid, dirty and unwanted polluted air. The cabinets of Air curtain are made of cold rolled M.S. sheet. The blowers are made of high quality aluminum sheets, duly balanced both statically as well as dynamically on computerized digital balancing machines. Designed to provide uniform air with minimum noise and no vibration. All units are thoroughly tested at works and meet the highest standards. The motors used are of continuous rating with sealed ball bearings. High velocity models approx. 10 meters. (i). Door width 600mm. (ii). -do- 900mm. (iii). -do- 1200mm. (iv). -do- 1500mm. (v). -do- 1800mm. a. Hanging charges	 Air Curtain	


10.	<p><u>Dressing Drum:</u> seamless (One piece) Made of Heavy gauge stainless steel.</p> <p>Size</p> <p>(i). 6"x4"</p> <p>(ii). 6"x6"</p> <p>(iii). 9"x4.5"</p> <p>(iv). 11"x9"</p> <p>(v). 14"x8"</p> <p>(vi). 15"x12"</p>		
11.(i).	<p><u>'MSI' Anaerobic Jar:</u> (McIntosh & fildes Pattern) for the safe growth of anaerobes through Cold Catalyst. It consists of fitted with two needle valves for evacuating and filling and a sachet for holding the catalyst but without catalyst. The jar can be used both with cylinder as well as with Gas packs. Complete with Petri dish holder and Pressure gauge.</p>		
(ii).	<p>Anaerobic Jar Model LE003-HiAnaerobic system Mark III: : Supplied with transparent, unbreakable Polycarbonate jar of 3.5 lit cap with sturdy aluminum lid clamp and sealing ring with built in safety features, pressure valve with safety valve & 2 way pressure gauge.</p>		
(iii).	<p>Himedia Model LE013: Anaerobic System Mark VI supplied with transparent unbreakable Polycarbonate jar of 1.5 lit cap with sturdy aluminum lid clamp and sealing ring with built in safety features, pressure valve and 2 way pressure gauge.</p> <p><u>Accessories.</u></p> <p>a. Gas Packs for Anaerobic culture jars. 'MSI'</p> <p>b. Test tube carrier s. s.</p> <p>c. Cold Catalyst.</p>		
12.(i).	<p><u>'MSI' Autoclave Portable:</u> Fitted with pressure gauge up to 20 psi, the unit has spring loaded safety valve for pressure adjustment and a dead weight safety valve. It is hydraulically tested up to 40 PSI an is supplied with electric fittings, cord and plug to work on220/240 VAC mains supply. Supplied complete with tripod stand Size 300x300mm. Body made of Aluminum. Deluxe model.</p>		
(ii).	300x375mm		
(iii).	-do- but body made of s. s. joint less.300x300		
(iv).	300x375mm		
13.	<p><u>'MSI' Autoclave:</u> Electrically operated Laboratory Autoclave Vertical, double walled, boiler made of s. s. with s. s. lined lid having fly nut locking system, Working pressure 5 psi to 15 psi complete with safety valve, water level indicator, steam release valve, pilot lamp, on/off switch for operation on 220 volt AC mains. Complete with s. s. basket. Outer laminated with s. s. sheet.</p> <p>Size:</p> <p>(i). 450x250mm</p> <p>(ii). 500x300mm</p> <p>(iii). 550x350mm</p> <p>(iv). 600x450mm</p> <p>(v). 750x550mm</p> <p>Size: with Automatic Pressure cut off</p> <p>(vi). 450x250mm</p> <p>(vii). 500x300mm</p> <p>(viii). 550x350mm</p> <p>(ix). 600x450mm</p> <p>(x). 750x550mm</p> <p><u>Optional at Extra cost:</u></p> <p>a. Radial Locking for any of above.</p> <p>b. Low Water Cut off device.</p> <p>c. Digital Temp Indicator.</p> <p>d. Timer with alarm.</p>	 <p>Autoclave Vertical</p>	



14.	<p>Autoclave Vertical High Pressure (Triple Walled): Triple walled with inner chamber outer wall and jacket made of Stainless Steel Fitted with Stainless Steel lid and radial type device. The space between steam jacket and outer wall is fitted with glasswool. Automatic Pressure Control Switch is provided for controlling the pressure automatically on preset pressure value.</p> <table><thead><tr><th></th><th>Size Dia x Depth</th><th>Electric Load</th><th>Capacity</th></tr></thead><tbody><tr><td>(i).</td><td>250mm x 450mm</td><td>(3KW)</td><td>22ltr</td></tr><tr><td>(ii).</td><td>300mm x 500mm</td><td>(4KW)</td><td>40ltr</td></tr><tr><td>(iii).</td><td>350mm x 550mm</td><td>(4 KW)</td><td>50ltr</td></tr><tr><td>(iv).</td><td>400mm x600mm</td><td>(5KW)</td><td>78ltr</td></tr><tr><td>(v).</td><td>450mm x 600mm</td><td>(6KW)</td><td>98ltr</td></tr><tr><td>(vi).</td><td>550mm x 750mm</td><td>(6KW)</td><td>152ltr</td></tr></tbody></table> <p>Optional Accessories.</p> <ol style="list-style-type: none">Arrangement for dry sterilization at the extra cost of.Automatic low water level cut-off deviceDigital Temperature indicatorTimer 0-60min.		Size Dia x Depth	Electric Load	Capacity	(i).	250mm x 450mm	(3KW)	22ltr	(ii).	300mm x 500mm	(4KW)	40ltr	(iii).	350mm x 550mm	(4 KW)	50ltr	(iv).	400mm x600mm	(5KW)	78ltr	(v).	450mm x 600mm	(6KW)	98ltr	(vi).	550mm x 750mm	(6KW)	152ltr		
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15.	<p>Autoclave Horizontal (Cylindrical): Double Walled Chamber inner made of thick Stainless Steel, outer made of Heavy Duty Mild Steel duty painted.. Whole unit is mounted on mild Steel Tubular stand duly enamel painted. door is made of Heavy Mild Steel duly S.S. Lined with Radial Locking System having Horizontal Mild Steel bars duly chromed tightened on a central screw. Steam Generator (Boiler) is placed below the main unit, is made of thick Stainless Steel. Boiler is provided with easily replaceable heating element and is fixed at the base of M.S. Frame. Provided with steam release cock, Safety Valves etc. boiler is provided with water level indicator. Workable pressure 20 P.S.I.+ 3 P.S.I. and hydraulically tested up to 40 P.S.I. Suitable to work on 440 V. 3 Phase or 220V Single Phase as per requirement. These Autoclaves are provided with automatic pressure switch/ Piezostat for controlling pressure at preset value.</p> <p>Available in following sizes.</p> <p>Size (Dia x Depth)</p> <ol style="list-style-type: none">250mm x 450mm300mm x 500mm350mm x 550mm440mm x 600mm450mm x 600mm550mm x 750mm400mm x 1100mm500mm x 1200mm <p>Optional Accessories.</p> <ol style="list-style-type: none">These can be provided with circular type thermometer to check the temperatureTimer 0-60min.Digital Temperature indicator																														
16.	<p>Same as above but outer chamber and lid made of Stainless Steel.</p> <p>Available in following sizes.</p> <p>Size (Dia x Depth)</p> <ol style="list-style-type: none">250mm x 450mm300mm x 500mm350mm x 550mm440mm x 600mm450mm x 600mm550mm x 750mm400mm x 1100mm500mm x 1200mm <p>Optional Accessories.</p> <ol style="list-style-type: none">These can be provided with circular type thermometer to check the temperatureTimer 0-60min.Digital Temperature indicator																														





<p>17.</p>	<p>Steam Sterilizer Horizontal High Pressure Cylindrical: This sterilizer is based on the principal of downward of displacement of air which is most economical method of obtaining the sterilization.</p> <p>Triple walled, with rugged and leak proof construction. Inner chamber is made of thick plate of Stainless Steel 304 quality. Outer chamber is also made of thick Stainless Steel The steam is lined on the outer side and made of 304 quality Stainless steel with asbestos sheet or glass wool which prevents heat losses due to radiation and is covered by strong rolled steel sheet duly painted. Boiler is made from thick stainless steel sheet suitable located under the sterilizer. High grade flanged type heating elements are placed in from side for easy replacement etc. Fitted with water gauge made of glass for water level, safety valve, water inlet and drain. Provided with self locking safety door which cannot be opened when the chamber is under pressure. The clutch mechanism automatically disengages the threads of the radial locking system for precluding and eventuality of accident when the chamber is under pressure. A heat resistant neoprene rubber gasket is provided for totally safety of the instrument. Provided with electrically operated PIEZOSTAT, which economics the power consumption and limits the use of release valve which would frequently blow steam into the room. It cuts off the power supply to heaters when the set pressure is achieved and re-energises the heater when pressure falls down. Two separate valves are provided for evacuating air and steam from inner chamber and jacket. A steam trap is fitted in the chamber discharge line to eliminate the condensate automatically. Panel consist of pressure control switch, main on/off switch, Indicators, relays etc. the sterilizer is provided with triple safety. First with pressure control switch, Two nos. spring loaded safety valves, and a dead weight safety valve. A PLUG SCREEN prevents the discharge line from choking. And it can easily be removed for cleaning. A power full ejector circulates the air throughout the chamber.</p> <p>Operating Temperature And Pressure. 121 °C., 1.2 to 2kg./sq. cm. LOAD: 6.0 TO 12.0 KW</p> <table border="1"> <thead> <tr> <th></th><th>Size (Dia x Depth)</th><th>Electric Load</th><th>Capacity</th></tr> </thead> <tbody> <tr> <td>(i).</td><td>400mm x 600mm</td><td>(6.0KW)</td><td>88ltr.</td></tr> <tr> <td>(ii).</td><td>400mm x 1100mm</td><td>(9.0KW)</td><td>162ltr.</td></tr> <tr> <td>(iii).</td><td>500mm x 900mm</td><td>(9.0KW)</td><td>165ltr.</td></tr> <tr> <td>(iv).</td><td>500m mx 1200mm</td><td>(9.0KW)</td><td>221ltr.</td></tr> </tbody> </table>		Size (Dia x Depth)	Electric Load	Capacity	(i).	400mm x 600mm	(6.0KW)	88ltr.	(ii).	400mm x 1100mm	(9.0KW)	162ltr.	(iii).	500mm x 900mm	(9.0KW)	165ltr.	(iv).	500m mx 1200mm	(9.0KW)	221ltr.	 <p>Autoclave Horizontal</p>	
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<p>18.</p>	<p>Steam sterilizer Rectangular High Pressure. Same as cylindrical High Pressure steam sterilizer but in rectangular shape: Outside made of Heavy Duly rolled steel/ stainless Steel, inside of thick Stainless Steel, triple walled. Door made of Thick Stainless Steel. Properly insulated Steam Generator is made of Heavy duly stainless Steel. Pressure control device is fitted in all electrically operated sterilizer. Provided with “Piezostat” (Pressure control Device). It cut off the power supply to the when the set pressure is achieved and re-energise the heating elements when pressure falls below the set point.</p> <p>Boiler is made from thick stainless steel sheet suitable located under the sterilizer. High grade flanged type heating elements are placed the from side for easy replacement etc. fitted with water gauge made of glass for water level, safety valve, water inlet and drain valves.</p> <p>Provided with self locking safety door which cannot be opened when the chamber is under pressure. The clutch mechanism automatically disengages the threads of the radial locking system for precluding any eventuality of accident when the chamber is under is pressure. A heat resistant neoprene rubber gasket is provided for totally safety of the Instrument. Provided with electrically operated PIEZOSTAT, which economics the power consumption and limits the use of release valve which would frequently blow steam into the room. It cuts off power supply to heaters when the set pressure is achieved and re-energises the heater when pressure falls down.</p>																						



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19.	<p>Autoclave.LAC-5040S Make: Daihan Labtech. Fully Automatic Sterilization Process Push just one button to operate from start to finish Safe and Convenient Operation Oven temperature, pressure, current over leakage protection, automatic over pressure release valve ensure user safety (AT EXTRA COST) Microprocessor PID Control and Display Dual display for current and set temperature and time remaining sterilization process signal lamp Electric Components Room and Steam Line is isolated for Safety Door Locking Limit Switch (80L/100L MODEL ONLY) can secure the complete door closing for safety</p> <p>Model LAC-5040S Controller Microprocessor manual Set Digital PID Controller Dimensions Outer 670 x 560 x 950 (W x D x H mm) Inner 300 x 630 Capacity 45 Lit Material Exterior Heavy duty Epoxy Resin powder coated steel EGI Steel Chamber Stainless Steel 304 (STS 316 L Option) Heater 3kW Temperature Range 110 °C to 135 °C Set Accuracy +0.1 °C at 121 °C Display PV & SV Dual Digital Display Temperature, timer operation cycle Indication Sterilization Timer 0-99min Working Pressure 2.0kg/cm2 at 132 °C Pressure Guage 0~4kg/cm2 Door Packing Mechanical Swing Door Safety Over temp. Over pressure and over current protector, safety release valve Basket 2EA of stainless steel wire basket Included Electric Supply 220V,50Hz</p>																											
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20.	<p>Autoclave.LAC-5060S Make: Daihan Labtech.</p> <p>Model LAC-5060S</p> <p>Controller Microprocessor manual Set Digital PID Controller</p> <p>Dimensions Outer 670 x 560 x 1050 (W x D x H mm) Inner 350 x 630</p> <p>Capacity 60 Lit</p> <p>Material Exterior Heavy duty Epoxy Resin powder coated steel EGI Steel</p> <p>Chamber Stainless Steel 304 (STS 316 L Option)</p> <p>Heater 3kW</p> <p>Temperature Range 110 °C to 135 °C</p> <p>Set Accuracy +0.1 °C at 121 °C</p> <p>Display PV & SV Dual Digital Display Temperature, timer operation cycle Indication</p> <p>Sterilization Timer 0-99min</p> <p>Working Pressure 2.0kg/cm² at 132 °C</p> <p>Pressure Gauge 0~4kg/cm²</p> <p>Door Packing Mechanical Swing Door</p> <p>Safety Over temp. Over pressure and over current protector, safety release valve</p> <p>Basket 2EA of stainless steel wire basket Included</p> <p>Electric Supply 220V,50Hz</p>		
a.	<p>Essential Accessories:</p> <p>Safe and Convenient Operation Oven temperature, pressure, current over leakage protection, automatic over pressure release valve.</p>		
21.	<p>‘MSI’ BOD BODI-103: BOD Incubator Automatic this is a special type of incubator designed to meet the requirements for incubation of biochemical oxygen demand (BOD) on water & sewage. Also recommended for preservation of vaccines at low temp and study of enzymatic digestion processes and other tests demanding constant and uniform low temperatures. The unit is highly suitable for work at temp below as well as above the ambient. These Incubators are being used as Environmental Study and Growth Chambers by incorporating Lighting & Humidification Systems. BOD Automatic consists of a triple walled chamber fitted with cooling and heating systems. Inside walls are of s. s. sheet and outside MS sheet nicely enamel painted. Mounted on Caster wheels. Glass wool insulation prevents heat losses. Full view inner glass door allows inspection of samples without disturbing temperature of chamber. Special Features of MSI Automatic BOD Incubators are:</p> <ul style="list-style-type: none"> • Temperature range 5 deg. To 50 deg. C uniform cooling coils embedded in the walls. Temperature Uniformity at Operating 20 deg.C is +/-1 deg. • Forced air circulation, ensures uniformity of the temperature. • Sensitive thermostatic temperature control. A safety thermostat cuts out heaters even on failure of automatic heat control. • Study Refrigeration unit working in conjunction with a low wattage heater for BOD work. • Selection switches to work either above or below room temperature. When working above the room temperature, the selective switch by pass the compressor circuit and energize a high wattage heater. <p>Size</p> <p>(i). 112 lit (4 cu ft.)</p> <p>(ii). 170 lit (6 cu ft.)</p> <p>(iii). 283 lit (10 cu. ft.)</p> <p>(iv). 343 lit (12 cu. ft)</p>	 <p>BOD/Humidity Incubator</p>	

a. b. c. d. e. f.	Optional Attachment at Extra Cost: Digital Temp. Indicator cum Controller for above in place of Thermostat. Light system by fluorescent tube with 0-24 hr. Digital Programmable timer. Slow speed shaking platform fitted in above. Humidity Honey well Humidistat with Humidity system. -do- but Digital. Stabilizer																																																											
22.	Low Temperature BOD Incubator Make: Daihan Labtech. Low Temperature BOD Incubator, 250ltrs. Capacity, programmable PID Model LBI-250M Silent Fan Moor: and automatic defrost function achieve excellent temperature uniformity and quiet operation 10Step Programmable: temperature control and 999 cycle Option: Light Bank System Inner Tempered Glass Door: With double silicone packing easy sample view without door opening <table><tr><td colspan="2">Programmable PID Model</td><td>LBI-250M</td></tr><tr><td>Dimensions</td><td>Inner</td><td>500 x 500x 1000</td></tr><tr><td>(W x D x H mm)</td><td>Outer</td><td>660 x 840 x 1755</td></tr><tr><td>Capacity</td><td></td><td>250</td></tr><tr><td>Temperature</td><td>Range</td><td>0 °C to 60 °C</td></tr><tr><td></td><td>Set Accuracy</td><td>+0.1 °C</td></tr><tr><td></td><td>Uniformity</td><td>+0.5 °C at 20 °C</td></tr><tr><td>Controller</td><td></td><td>Microprocessor PID Multi-Function Controller</td></tr><tr><td>Display</td><td></td><td>LCD Back PV & SV Display for Programmable PID Model</td></tr><tr><td>Timer</td><td></td><td>99hr 59min/Continuous</td></tr><tr><td>Material</td><td>Interior</td><td>Stainless Steel (SUS304)</td></tr><tr><td></td><td>Exterior</td><td>Epoxy Powder Coated Steel</td></tr><tr><td>Door</td><td>Inner</td><td>Tempered Safety Glass</td></tr><tr><td></td><td>Outer</td><td>Silicone Packing Magnetic Door</td></tr><tr><td>Shelves</td><td></td><td>Adjustable 3 or 5 Shelves</td></tr><tr><td>Circulation Fan</td><td></td><td>14W x 3EA</td></tr><tr><td>Compressor</td><td></td><td>1/3HP</td></tr><tr><td>Safety</td><td></td><td>Over & Under Temp. Cut-Off Over Current Breaker</td></tr><tr><td>Electric Supply</td><td></td><td>220V, 50Hz</td></tr></table>	Programmable PID Model		LBI-250M	Dimensions	Inner	500 x 500x 1000	(W x D x H mm)	Outer	660 x 840 x 1755	Capacity		250	Temperature	Range	0 °C to 60 °C		Set Accuracy	+0.1 °C		Uniformity	+0.5 °C at 20 °C	Controller		Microprocessor PID Multi-Function Controller	Display		LCD Back PV & SV Display for Programmable PID Model	Timer		99hr 59min/Continuous	Material	Interior	Stainless Steel (SUS304)		Exterior	Epoxy Powder Coated Steel	Door	Inner	Tempered Safety Glass		Outer	Silicone Packing Magnetic Door	Shelves		Adjustable 3 or 5 Shelves	Circulation Fan		14W x 3EA	Compressor		1/3HP	Safety		Over & Under Temp. Cut-Off Over Current Breaker	Electric Supply		220V, 50Hz		
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a.	Essential Accessories: Microprocessor PID Control : Provides Precise Temperature control from 0 °C to 60 °C, timer, alarm and auto-tuning																																																											
23.	‘MSI’ Hybridization Oven : - These double walled units have outer chamber of MS sheet duly painted and inner of s. s. temperature range from 5 deg. C above ambient to 90 deg. C is controlled thought digital PID Temp Indicator cum controller with an acc of +/- 0.5 deg.C. An air circulation fan is also provided to ensure temperature uniformity. A carrier to hold bottles (6xsize 60mmx200mm) can be easily placed on the rotor. The carrier rotates at a variable speed of 2 to 16 r.p.m. Viewing glass window in the door allows inspection of the specimen inside the chamber. To work on 220/230 V AC mains.																																																											
a. b.	Carrier to Hold Bottle Bottle Glass																																																											


<p>24.</p> <p>(i).</p> <p>(ii).</p> <p>(iii).</p> <p>(iv).</p> <p>(v).</p> <p>(vi).</p> <p>(vii).</p> <p>(viii).</p> <p>(ix).</p> <p>(x).</p> <p>(xi).</p> <p>(xii).</p> <p>(xiii).</p> <p>(xiv).</p> <p>a.</p> <p>b.</p> <p>c.</p>	<p>‘MSI’ Hot Air Oven HAO-601: (Memert German type) double walled inside made of pure s. s. sheet and outside of M.S. finished in durable Powder coated paint with glass wool insulation between the two walls. Control: ON/OFF switch, two pilot lamp, temp control by Thermostat with high accuracy, adjustable shelves with holes, connecting cord and plug. Heating: covered heaters are placed under ribs and at the bottom and side to get equal and uniform distribution of heat. Temp. Range 5 deg. Above ambient (room temp) to 250/300 deg. C Accuracy +/- 1 deg. C Air Transfer: Air regulators with flaps placed under the side top. With 2 shelves as standard.</p> <p>Inside Chamber.</p> <p>300x300x300mm</p> <p>350x350x350mm</p> <p>450x450x450mm</p> <p>600x600x600mm</p> <p>450x450x600mm</p> <p>450x600x900mm</p> <p>600x600x900mm</p> <p>S.S Outer DELUX MODEL</p> <p>300x300x300mm</p> <p>350x350x350mm</p> <p>450x450x450mm</p> <p>600x600x600mm</p> <p>450x450x600mm</p> <p>450x600x900mm</p> <p>600x600x900mm</p> <p>Optional accessories at extra cost.</p> <p>Air Circulation Fan fitted in any of the above.</p> <p>Digital Temp. Indicator cum Controller for above in place of Thermostat.</p> <p>PID Controller</p>	 <p>Hot Air Oven</p>	
<p>25.</p> <p>(i).</p> <p>(ii).</p> <p>(iii).</p> <p>(iv).</p> <p>(v).</p> <p>(vi).</p> <p>(vii).</p> <p>(viii).</p> <p>(ix).</p> <p>(x).</p> <p>(xi).</p> <p>(xii).</p> <p>(xiii).</p> <p>(xiv).</p> <p>a.</p> <p>b.</p> <p>c.</p>	<p>‘MSI’ Incubator: Double walled inside made of pure s. s. sheet and outside of M.S. finished in durable Powder coated paint with glass wool insulation between the two walls. Control: ON/OFF switch, two pilot lamp, temp control by Thermostat with high accuracy, adjustable shelves with holes, connecting cord and plug. Heating: covered heaters are placed under ribs and at the bottom and side to get equal and uniform distribution of heat. Temp. Range 5 deg. Above ambient (room temp) to 80 deg. C Accuracy +/- 1 deg. C Air Transfer: Air regulators with flaps placed under the side top. With 2 shelves as standard.</p> <p>Inside Chamber.</p> <p>300x300x300mm</p> <p>350x350x350mm</p> <p>450x450x450mm</p> <p>600x600x600mm</p> <p>450x450x600mm</p> <p>450x600x900mm</p> <p>600x600x900mm</p> <p>S.S Outer DELUX MODEL</p> <p>300x300x300mm</p> <p>350x350x350mm</p> <p>450x450x450mm</p> <p>600x600x600mm</p> <p>450x450x600mm</p> <p>450x600x900mm</p> <p>600x600x900mm</p> <p>Optional accessories at extra cost.</p> <p>Air Circulation Fan fitted in any of the above.</p> <p>Digital Temp. Indicator cum Controller for above in place of Thermostat.</p> <p>PID Controller for above in place of Thermostat.</p>	 <p>Biological Incubator</p>	


26.	<p><u>'MSI' Water Bath 6/12 Hole:</u> Thermostatic Water bath Double walled. The bath is constructed double walled inside made of s. s. and outside of M.S. sheet duly painted with Powder coating paint provided with 25mm Mineral Wool insulation on five sides. The temperature range of the water bath is +5 deg. C above room temperature to 100 deg. C with an acc of 0.5deg.C. The temperature is controlled by a Hydraulic type thermostat room temp to 80 deg. C with max. temp. 100 deg. C sensitivity of +/- 0.5 deg. C. Heating elements are made of copper nickel plated tubular type and approximately extend the full length of the bath. Control panel is provided at the lower portion of the bath consisting of two neon pilot lights which indicates control cycles as well as the mains heater switch, Temp control knob. The bath is complete with concentric rings, constant water level arrangement, ON/Off switch & Plug and cord.</p> <table><tr><td></td><td>Size</td><td>Hole</td></tr><tr><td>(i).</td><td>300x250x100mm</td><td>6</td></tr><tr><td>(ii).</td><td>300x350x100mm</td><td>9</td></tr><tr><td>(iii).</td><td>355x405x100mm.</td><td>12</td></tr></table> <p>a. Digital Temp. Indicator cum Controller for above in place of Thermostat.</p>		Size	Hole	(i).	300x250x100mm	6	(ii).	300x350x100mm	9	(iii).	355x405x100mm.	12	 <p>Water Bath 6 Hole</p>			
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(i).	300x250x100mm	6															
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(iii).	355x405x100mm.	12															
27.	<p><u>'MSI' HIGH PRECISION THERMOSTATIC BATH HPTB-138:</u> The inner chamber of the bath is made of s. s. and outer casting is fabricated from M.S. sheet of thick gauge, finished with powder coating having thick glass wool insulation between the two walls. The finder is of thick gauge glass fixed on the front panel. The bath itself is located on the upper deck and lower deck provides switches for thermo-regulator, stirrer, heater, indicator and main lamps. The apparatus is supplied with thermostatic controller, operate on 220/230 v 50 cycles AC.</p> <p>Sizes Inside chamber</p> <table><tr><td>(i).</td><td>480x240x265mm</td></tr><tr><td>(ii).</td><td>425x250x225mm</td></tr><tr><td>(iii).</td><td>300x250x225mm</td></tr></table> <p>a. Digital Temp. Indicator cum Controller for above in place of Thermostat.</p>	(i).	480x240x265mm	(ii).	425x250x225mm	(iii).	300x250x225mm										
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28.	<p><u>'MSI' WATER BATH SEROLOGICAL WBSVT-110:-</u> Variable temperature made of S. S. Sheet double walled with special insulating material, thick tin coating inside and outside painted beautiful powder coating/stove enameled. Fitted with sensitive Thermostat to work on +5 deg. c room temp. to 100° c with an accuracy of +/-1° c pilot lamp, immersion type heater to work on 220 volts AC 50 cycles supply. Complete with three core wire, plug and gabl type cover without rack.</p> <table><tr><td></td><td>Size</td><td>Khan Racks</td></tr><tr><td>(i).</td><td>300x250x175mm</td><td>2</td></tr><tr><td>(ii).</td><td>300x300x175mm</td><td>4</td></tr><tr><td>(iii).</td><td>455x300x175mm</td><td>6</td></tr><tr><td>(iv).</td><td>455x455x175mm</td><td>8</td></tr></table> <p>a. Khan Rack for above Stainless Steel</p> <p>b. Stirrer with S.S.Stirring Road & Blade</p> <p>c. Digital Temp. Indicator cum Controller for above in place of Thermostat.</p>		Size	Khan Racks	(i).	300x250x175mm	2	(ii).	300x300x175mm	4	(iii).	455x300x175mm	6	(iv).	455x455x175mm	8	
	Size	Khan Racks															
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29.	<p><u>'MSI' WATER BATH PARAFIN EMBEDDING WBPE -115:</u> Thermostatically controlled. Made of heavy gauge S. S. sheet with skirting type stand finished in cups of 62 mm. dia. with lids and containers are provided to hold glass vials and not for stocking paraffin with glass cover .Fitted with Sensitive Thermostat to control 5° c above room temperature to 56° c within accuracy of +/-1° c Electrically operated on 220 volts 50 cycles single phase AC supply.</p> <table><tr><td>(i).</td><td>4 cups& 6 glass vials.</td></tr><tr><td>(ii).</td><td>6 cups& 8 glass vials.</td></tr><tr><td>(iii).</td><td>12 cups& 12 vials.</td></tr></table> <p>a. Digital Temp. Indicator cum Controller for above in place of Thermostat.</p>	(i).	4 cups& 6 glass vials.	(ii).	6 cups& 8 glass vials.	(iii).	12 cups& 12 vials.										
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(ii).	6 cups& 8 glass vials.																
(iii).	12 cups& 12 vials.																



30.	<p>‘MSI’ HEATING MANTLE HM-95: These are made to accommodate several sizes of round bottom flask in mantle of each size to provided uniform heating. Bigger sizes of mantles have two or three heating circuits so that upper circuits could be switched off when small size Flask is heated or when liquid level drops These multi-sized mantles have heating surface knitted in our Factory from woven fiber glass cloth with the heating elements covered in fiber glass sleeve.</p> <p>They provided a minimum surface temperature of 450⁰ C working on 230 V, Singl phase, 50 C single Phases.</p> <table><tr><th>Capacity ml.</th><th>Wattage</th></tr><tr><td>(i). 50ml</td><td>60</td></tr><tr><td>(ii). 100ml</td><td>60</td></tr><tr><td>(iii). 250ml</td><td>150</td></tr><tr><td>(iv). 500ml</td><td>200</td></tr><tr><td>(v). 1Litre</td><td>300</td></tr><tr><td>(vi). 2Litre</td><td>450</td></tr><tr><td>(vii). 3Litre</td><td>450</td></tr><tr><td>(viii). 5Litre</td><td>600</td></tr><tr><td>(ix). 10Litre</td><td>2x600</td></tr><tr><td>(x). 20Litre</td><td>3x600</td></tr><tr><td>(xi). 50Litre</td><td>6x600</td></tr></table>	Capacity ml.	Wattage	(i). 50ml	60	(ii). 100ml	60	(iii). 250ml	150	(iv). 500ml	200	(v). 1Litre	300	(vi). 2Litre	450	(vii). 3Litre	450	(viii). 5Litre	600	(ix). 10Litre	2x600	(x). 20Litre	3x600	(xi). 50Litre	6x600	<div><p>Heating Mantle</p><table><tr><th>Complete Mantle Price</th></tr><tr><td>1240.00</td></tr><tr><td>1240.00</td></tr><tr><td>1300.00</td></tr><tr><td>1400.00</td></tr><tr><td>1675.00</td></tr><tr><td>2085.00</td></tr><tr><td>2400.00</td></tr><tr><td>2700.00</td></tr><tr><td>4310.00</td></tr><tr><td>6100.00</td></tr><tr><td>14200.00</td></tr></table></div>	Complete Mantle Price	1240.00	1240.00	1300.00	1400.00	1675.00	2085.00	2400.00	2700.00	4310.00	6100.00	14200.00
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31.	<p>‘MSI’ Water bath Shaker / Metabolic Shaker: It is a double walled unit with inside made of s. s. sheet and outside of M.S. duly enamel painted. The Pyramidical lid made of s. s. prevent falling of condensed water droplets on the specimens. Heating is achieved through an immersion type heater and temp is controlled by Digital temp Indicator cum controller. The bath has an oscillating tray riding on ball bearing oscillated through a geared variable speed motor shaking Erlenmeyer flasks of 100ml cap. Available with heating arrangement only. Temperature range 5 deg. above ambient to 100 deg. C.</p>	<div></div>																																				
32.	<p>Shaking Water Bath, 22ltrs, LSB-015S Make: Daihan Labtech.</p> <ul style="list-style-type: none">❖ Quiet Shaking Mechanism❖ Universal Rack Takes Tube and Flask from 50ml up to 2ltr❖ PID Temperature Control up to 99 °C❖ Shaker from 20 to 250rpm Digital Speed Control❖ Three Model with Bath Capacities 20ltr , 30ltr 45ltr❖ Stainless Steel Bath (SUS304) <p>Digital PID Controller : Provide +0.1 °C accuracy +0.5 °C uniformity temperature range from ambient +5 °C to 99 °C touch-sensitive membrane type control panel</p> <p>Quiet Shaking Mechanism: Electronically controlled shaking mechanism provides noiseless reciprocal motion and precise speed control from 20 to 250rpm, perfect for long time use</p> <p>High Quality Stainless Steel: Corrosion Resistant (SUS304) Bath</p> <p>Over Temperature Protection: And over current protection capability ensure user safety</p> <p>Universal Spring Rack: Accommodates various tube and sized flask from 50ml to 2000ml and tubes racks</p> <table><tr><th>Model</th><th>LSB015S</th></tr><tr><td>Dimension Bath</td><td>300 x 300 x 240</td></tr><tr><td>(W x D x H mm) Overall</td><td>534 x 344 x 300</td></tr><tr><td>Bath Capacity</td><td>20ltr</td></tr><tr><td>Heater</td><td>1.4kW</td></tr><tr><td>Temperature Range</td><td>Ambient + 5 °C to 99 °C</td></tr><tr><td>Accuracy</td><td>+0.1 °C</td></tr><tr><td>Uniformity</td><td>+0.5 °C</td></tr><tr><td>Controller</td><td>Digital PID Controller</td></tr><tr><td>Shaking Speed</td><td>20 to 250 stroke/min</td></tr><tr><td>Stroke</td><td>Adjustable 15 to 30mm</td></tr></table>	Model	LSB015S	Dimension Bath	300 x 300 x 240	(W x D x H mm) Overall	534 x 344 x 300	Bath Capacity	20ltr	Heater	1.4kW	Temperature Range	Ambient + 5 °C to 99 °C	Accuracy	+0.1 °C	Uniformity	+0.5 °C	Controller	Digital PID Controller	Shaking Speed	20 to 250 stroke/min	Stroke	Adjustable 15 to 30mm															
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	Display Timer Material	Bath Case Rack	LED 4 Digit Display 99hr 59min/Continuous Stainless Steel Powder Coated Steel Stainless Steel Spring Rack Over Temp. Cut-off, Over Current & leakage Breaker 220V, 50Hz		
33.	Shaking Water Bath, 30ltrs. LSB-030S Make: Daihan Labtech. Model LSB030S Dimension Bath 500 x 300 x 240 (W x D x H mm) Overall 734 x 344 x 300 Bath Capacity 30ltr Heater 2.1kW Temperature Range Ambient + 5 °C to 99 °C Accuracy +0.1 °C Uniformity +0.5 °C Controller Digital PID Controller Shaking Speed 20 to 250 stroke/min Stroke Adjustable 15 to 30mm Display LED 4 Digit Display Timer 99hr 59min/Continuous Material Bath Stainless Steel Case Powder Coated Steel Rack Stainless Steel Spring Rack Safety Over Temp. Cut-off, Over Current & leakage Breaker Electric Supply 220V, 50Hz				
34.	‘MSI’ Orbital Cooling Incubator Shaker: It comprises of hermetically sealed compressor housed Below the incubator to provide temperature below ambient. Range 5 deg. To 60 deg. +/- 0.5 deg. Acc. Temperature is controlled by Digital Display Electronic Temperature Controller. Standard Platform Cap. 16 conical flask of 500ml. chamber cap. 10 cu. Ft. made of s. s. and outside M. S. nicely painted. Mounted on wheels.				
35.	Shaking Incubator, Speed 400rpm and temperature ambient + 5 to 80degree C, LSI-4018A Make: Daihan Labtech. Model LSI-4018A Dimensions Bath 545x550x360 (W x D x H mm) Overall 585x850x800 Temperature Range Ambient 5 °C to 80 °C Set Accuracy + 0.1 °C Uniformity + 0.5 °C at 25 °C Shaking Speed 0 to 400rpm Stroke 20mm Orbital Motion Controller Digital PID Controller Display LED 4 Digit Display Timer 99hr 59min /continuous Compressor None Material Interior Stainless Steel (SUS304) Exterior Epoxy Powder coated Steel Safety Over temp Cut-off, Over Current Breaker Electric Supply 220V, 50Hz				




36.	<p>Shaking Incubator. Make: Daihan Labtech. Shaking Incubator, Speed 300rpm and temperature ambient +5 to 60degreeC, LSI-3016A. Digital PID Control: Provides precise temperature control from 10 °C to 80 °C Speed control 0 to 400rpm touch-sensitive membrane type keypad with timer Safety and Convenience: over temperature control protection, leakage breaker ensure uer safety Universal Spring Rack: which can accommodate various sized flasks up to 2L and tube racks to attach and remove from the shaking plate Shaking Mechanism: electronically controlled shaking mechanism provides quiet orbital motion precise speed control and digital display. Shaking Motion can stop automatically when door is opened. Model LSI-3016A Dimensions Bath 545x550x360 (W x D x H mm) Overall 585x850x800 Temperature Range Ambient +5 °C to 60 °C Set Accuracy + 0.1 °C Uniformity + 0.5 °C at 25 °C Shaking Speed 0 to 300rpm Stroke 20mm Orbital Motion Controller Digital PID Controller Display LED 4 Digit Display Timer 99hr 59min /continuous Compressor None Material Interior Stainless Steel (SUS304) Exterior Epoxy Powder coated Steel Safety Over temp Cut-off, Over Current Breaker Electric Supply 220V, 50Hz</p>		
37.	<p>Refrigerated Shaking Incubator, Speed 300rpm and temperature 7-60 degree C, LSI-3016R Make: Daihan Labtech. Model LSI-3016R Dimensions Bath 545x550x360 (W x D x H mm) Overall 585x850x800 Temperature Range 10 °C to 60 °C Set Accuracy + 0.1 °C Uniformity + 0.5 °C at 25 °C Shaking Speed 0 to 300rpm Stroke 20mm Orbital Motion Controller Digital PID Controller Display LED 4 Digit Display Timer 99hr 59min /continuous Compressor 1/8HP Material Interior Stainless Steel (SUS304) Exterior Epoxy Powder coated Steel Safety Over temp Cut-off, Over Current Breaker Electric Supply 220V, 50Hz</p>		
38.	<p>Refrigerated Shaking Incubator, Speed 400rpm and temperature + 5 to 80degree C, LSI-4018R Make: Daihan Labtech. Model LSI-4018R Dimensions Bath 545x550x360 (W x D x H mm) Overall 585x850x800 Temperature Range 10 °C to 80 °C Set Accuracy + 0.1 °C Uniformity + 0.5 °C at 25 °C Shaking Speed 0 to 400rpm Stroke 20mm Orbital Motion</p>		



	Controller Display Timer Compressor Material Safety Electric Supply	1/8HP Interior Exterior Stainless Steel (SUS304) Epoxy Powder coated Steel Over temp Cut-off, Over Current Breaker 220V, 50Hz		
a.	Essential Accessories: Universal Spring Rack: which can accommodate various sized flasks up to 2L and tube racks to attach and remove from the shaking plate			
39.	‘MSI’ Circulatory Water Bath : A highly in demand instrument where water is required to be circulated to some external source through an FHP pump. Most useful for circulating water to Abbe Refractometer, Condenser coils & fermentors etc. etc. Temperature range as per the customer requirements varies from 0-70 deg.C. Temperature is controlled by digital Temperature Indicator cum controller of acc. +/- 1 deg.C. Inner chamber made of s. s. and outer chamber made of M.S. Sheet duly painted. The gap in between the walls is insulated with high grade Glass Wool insulation. The Refrigeration unit is housed under the bath Cabinet and the whole unit is mounted on castor wheels for easy movement. The water is circulated by a heavy duty FHP Pump fitted inside the cabinet. Separates/witch for pump operation is provided. The circulating pump helps in external circulation and also keeping the internal water temperature uniformity in the chamber. Two nozzles one for water inlet and other for water outlet are provided for easy fitting of the support instruments in which water is to be circulated. Separate Switch for Cooling unit, Digital Temperature Indicator cum controller, Switch for Circulating Pump and Indicator for various operations are all housed in a nicely made Panel. The Lid is also of double walled insulated with high grade Glass wool. (In short it is a Chest type Deep freezer). Temperature range 0-70 deg. C. Tank cap. 12-15 lit water.			
40.	Refrigerated Bath Circulator – 30 °C to 90 °C13LCB-R13 Make: Daihan Labtech. Model LCB-R13 Dimensions Bath 250 x 350 x 150 (W x D x H mm) Top 250 x 160 Overall 320 x 440 x 750 Capacity 13 Lit Temperature Range -3 to 90 °C Set Accuracy +0.1 °C Uniformity +0.5 °C Heater 1kW Refrigerant 1/4HP Controller Digital PID Multi-Function Controller Display LED 40Digit Display Pump Magnetic Drive Circulation Pump, Max. Flow 7L/min max. Height 4.3 meters Material Interior Stainless Steel Exterior Powder Coated Steel Safety Over Temp. Cut-Off Over Current and Leakage Breaker Electric Supply 220V,50Hz			





41.	<p>Refrigerated Bath Circulator – 30 °C to 90 °C 8LCB-R8 Make: Daihan Labtech. Microprocessor PID Controller : Provides + 1.0 °C set accuracy + 0.5 °C uniformity, temperature range from -30 °C to 90 °C High Quality Stainless Steel: Corrosion resistant (SUS304) bath and insulation and easy to maintenance with movable casters Over Temperature Protection : And over cooling , over current Protection Capability ensure user safety and protect Cooler from damage Powerful Circulation Pump: with 7L/min and 4.3 meters maximum height enhance temperature uniformity of the bath, circulation bath inside and outside of the bath</p> <table><tr><td>Model</td><td>LCB-R08</td></tr><tr><td>Dimensions Bath</td><td>170 x 320 x 150</td></tr><tr><td>(W x D x H mm) Top</td><td>170 x 150</td></tr><tr><td>Overall</td><td>335 x 440 x 645</td></tr><tr><td>Capacity</td><td>8 Lit</td></tr><tr><td>Temperature Range</td><td>-3 to 90 °C</td></tr><tr><td>Set Accuracy</td><td>+0.1 °C</td></tr><tr><td>Uniformity</td><td>+0.5 °C</td></tr><tr><td>Heater</td><td>700W</td></tr><tr><td>Refrigerant</td><td>1/4HP</td></tr><tr><td>Controller</td><td>Digital PID Multi-Function Controller</td></tr><tr><td>Display</td><td>LED 40Digit Display</td></tr><tr><td>Pump</td><td>Magnetic Drive Circulation Pump, Max. Flow 7L/min max. Height 4.3 meters</td></tr><tr><td>Material Interior</td><td>Stainless Steel</td></tr><tr><td>Exterior</td><td>Powder Coated Steel</td></tr><tr><td>Safety</td><td>Over Temp. Cut-Off Over Current and Leakage Breaker</td></tr><tr><td>Electric Supply</td><td>220V,50Hz</td></tr></table>	Model	LCB-R08	Dimensions Bath	170 x 320 x 150	(W x D x H mm) Top	170 x 150	Overall	335 x 440 x 645	Capacity	8 Lit	Temperature Range	-3 to 90 °C	Set Accuracy	+0.1 °C	Uniformity	+0.5 °C	Heater	700W	Refrigerant	1/4HP	Controller	Digital PID Multi-Function Controller	Display	LED 40Digit Display	Pump	Magnetic Drive Circulation Pump, Max. Flow 7L/min max. Height 4.3 meters	Material Interior	Stainless Steel	Exterior	Powder Coated Steel	Safety	Over Temp. Cut-Off Over Current and Leakage Breaker	Electric Supply	220V,50Hz				
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Electric Supply	220V,50Hz																																						
42.	<p>‘MSI’ MUFFEL Furnace MF-65: The casing is made of thick mild steel sheet reinforced with iron angles, riveting screw joints and welding wherever necessary and painted in attractive powder coating paint. Heating chamber consists of rectangular horizontal totally enclosed muffle bracket. Heating elements are of made of Kanthal or Nichrome wires wound externally on the muffle and embedded in best quality high temperature embedding cement. Sufficient insulation lagging is provided all around the embedding muffle. Maximum temperature upto 1000 Deg. C and working temperature 900⁰ C Temperature controlled by Imported English Sunvic Dimmer stat Energy regulator fitted in front of the furnace with two indicating bulbs, Pyrometer, ,thermocouple lead wires etc. Furnace is suitable for 230 V AC single phase, 50 Hz electric supply.</p> <table><tr><td></td><td>Muffle Size.</td><td>Rating KW</td></tr><tr><td>(i).</td><td>9”x4”x4”</td><td>1.6</td></tr><tr><td>(ii).</td><td>10”x5”x5”</td><td>2.0</td></tr><tr><td>(iii).</td><td>12”x5”x4”</td><td>3.0</td></tr><tr><td>(iv).</td><td>12”x6”x4”</td><td>3.0</td></tr><tr><td>(v).</td><td>12”x8”x4”</td><td>4.0</td></tr><tr><td>(vi).</td><td>12”x5”x5”</td><td>3.0</td></tr><tr><td>(vii).</td><td>12”x6”x6”</td><td>3.5</td></tr><tr><td>(viii).</td><td>12”x8”x8”</td><td>5.0</td></tr><tr><td>(ix).</td><td>15”x6”x4”</td><td>3.0</td></tr><tr><td>(x).</td><td>14”x7”5”</td><td>4.0</td></tr><tr><td>(xi).</td><td>15”x7”x7”</td><td>4.0</td></tr></table> <p>a. Digital Temp. Indicator cum Controller for above in place of Thermostat.</p>		Muffle Size.	Rating KW	(i).	9”x4”x4”	1.6	(ii).	10”x5”x5”	2.0	(iii).	12”x5”x4”	3.0	(iv).	12”x6”x4”	3.0	(v).	12”x8”x4”	4.0	(vi).	12”x5”x5”	3.0	(vii).	12”x6”x6”	3.5	(viii).	12”x8”x8”	5.0	(ix).	15”x6”x4”	3.0	(x).	14”x7”5”	4.0	(xi).	15”x7”x7”	4.0	 <p>Muffel Furnace</p>	
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43.	<p>‘MSI’ MUFFEL FURNACE (INDUSTRIAL TYPE) MFI-68: For temperature 1150 deg. C outer body furnace is made of thick mild steel duly painted and fitted with angle frame. Inside chamber is of grooved refractory for supporting the heating elements on four sides and insulated with ceramic wool to prevent the heat losses. Heating elements are made of Kanthal wire A-1 which has been found to be best suitable for high temperature. Maximum working temperature of furnace is 1000⁰ C. The Furnace has hinged door faced with a insulation of Ceramic Wool in place of refractory bricks and closed for thermo couple, outlet and for thermal fuse, compensating lead wire main leads suitable for 220/230 volts single phase 50 cycles AC Supply.</p> <p>Working Chamber. Rating KW</p> <p>(i). 12”x6”x6” 4.5</p> <p>(ii). 12”x8”x8” 7.5</p> <p>a. Digital Temp. Indicator cum Controller for above in place of Thermostat.</p>	 <p>Muffel Furnace</p>												
44.	<p>‘MSI’ VACUUM OVEN VO-175: For use in dehydration, moisture determinate- on and other operations requiring reduced temperature, low pressure and vacuation of fumes. The oven chamber is made of thick s.s. sheet and outside mild steel painted with stove enameled. The door clamp makes it possible to use the vacuum oven as a low pressure oven i.e. for internal pressure not exceeding 5 lbs /square inch , which facilitates rapid &complete interchange of gases. With hand screw for tightening, the door clamp bears centrally on the door at four points on its frame. Seating is simply and quickly accomplished by light rotation of the door into position and final Adjustment by tightening the screw clamp. A snap switch and pilot lights are provided on the front of the temperature regulated compartment. Combined vacuum and pressure gauge is mounted on the top of the oven together with hand valves. The construction of the oven and the method of thermoregulation provided uniformity in temperature distribution within the vacuum chamber, sufficient for all ordinary laboratory procedures. Thermostatically controlled to work from room temperature to 110⁰ C on 220 V AC supply. With t removable perforated shelves inside dimension. Digital temp. (But w/o Vacuum pump.)</p> <p>Size</p> <p>(i). 220x200mm</p> <p>(ii). 300x250mm</p> <p>(iii). 300x300mm</p> <p>(iv). 300x450mm</p> <p>a. Digital Temp. Indicator cum Controller for above in place of Thermostat.</p>	 <p>Vacuum oven</p>												
45.	<p>Vacuum Drying Oven 27ltrs. Digital control Model LVO-2030 Make: Daihan Labtech. Ideal for Fine Vacuum : Vacuum embedding moisture testing and desiccating Temperature up to 250 °C and maintain 760mm Hg vacuum Tempered Safety Glass Window: and 3&4mm Thick stainless steel chamber and heat resistant silicone packing door Vacuum & Vent Valve: and safety 3-way valve, slow vacuum relief prevents powdered sample scattering Seamless Silicone Packing: Designed and produced with technical structure by large mode ensure excellent vacuum condition Digital PID Control: Provides Precision Temperature control, timer, auto-tunning Safety and Convenience: Over Temperature and over current protection, Leakage Breaker ensure user safety</p> <table><tr><td>Digital Controller Model</td><td>LVO-2030</td></tr><tr><td>Dimensions</td><td>Inner 300 x 300 x 300</td></tr><tr><td>(W x D x H mm)</td><td>Outer 730 x 455 x 553</td></tr><tr><td>Capacity</td><td>27 Lit</td></tr><tr><td>Heater</td><td>1.5kW</td></tr><tr><td>Controller</td><td>Digital PID Multi-Function Controller</td></tr></table>	Digital Controller Model	LVO-2030	Dimensions	Inner 300 x 300 x 300	(W x D x H mm)	Outer 730 x 455 x 553	Capacity	27 Lit	Heater	1.5kW	Controller	Digital PID Multi-Function Controller	
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Heater	1.5kW													
Controller	Digital PID Multi-Function Controller													


	Display Timer Temperature Vacuum Material Door Safety Electric Supply	LED 4 Digit Display 99min 59sec /99hr 59min /99days 23hours /Continuous Selectable Ambient +5 to 250 °C +0.1 °C +3.0 °C at 120 °C 10~760mm Hg Stainless 3 & 4 mm Thickness Epoxy powder coated steel Tempered Glass Window with Silicone Packing Over Heat Protector Over Current & Leakage Breaker 220V, 50Hz		
46.	Vacuum Drying Oven 64ltrs. Digital Controller Model LVO-2040 Make: Daihan Labtech. Digital Controller Model Dimensions (W x D x H mm) Capacity Heater Controller Display Timer Temperature Vacuum Material Door Safety Electric Supply	LVO-2040 Inner Outer 400 x 400 x 400 830 x 555 x 660 64 Lit 2.5kW Digital PID Multi-Function Controller LED 4 Digit Display 99min 59sec /99hr 59min /99days 23hours /Continuous Selectable Ambient +5 to 250 °C +0.1 °C +3.0 °C at 120 °C 10~760mm Hg Stainless 3 & 4 mm Thickness Epoxy powder coated steel Tempered Glass Window with Silicone Packing Over Heat Protector Over Current & Leakage Breaker 220V, 50Hz		
47.	‘MSI’ WALK IN INCUBATOR WI-775: Design for vast number of incubation applications may be set in hall way room or where-ever convenient. Design feature include enameled steel exterior, Alluminium interior, ventilators, internal lighting, exhaust fan suitably insulated, 300mm.sq. Inspection window provided Complete with panel housing all controls, circulation fan etc. Inner Chamber Size 2.30x1.1.0x1.1.0 meter Temp. Range: 5°C above ambient to 60°C Temp. Control: Digital Temp Indicator cum controller 2.3x2.3x2.3meter			
48.	‘MSI’ WALK IN HUMIDITY CONTROLLER FOR ABOVE (47): detailed above but fitted with controlled humidity from ambient to 95%+-3%. At extra cost in above.			
49.	‘MSI’ WALK IN HUMIDITY TEMPERATURE CONTROLLER INCUBATOR FOR ABOVE (47): As detailed above but temp. Range 10 degree c to 50degree c & R.H. ambient to 95%+3%. At extra cost in above.			
50.	‘MSI’ CARBON DI OXIDE INCUBATER CDI-850: All inside chamber size. 71H with x 45 W x 45 D cm (6 cu. Ft. approx) automatic Digital electronic temperature indicator cum controller , full view of inner glass with double wall insulated with magnetic gasket door. An inlet nozzle at the near of the control box provides the admission of CO ₂ or air/CO ₂ mixtures. Supplied complete with flow- meter .Temperature range 5 degree C above ambient to 60 degree C			



	above ambient to 60 degree C accuracy ± 0.5 degree C.																										
51.	<p><u>'MSI' CARBON DIOXIDE INCUBATER CDI-875:</u> Same as above but provided with sealed refrigeration unit to bring down temp. Range 5 degree C to 50 degree C with solid state Electronic controller . Accuracy ± 5 degree C.</p> <p><u>ACCESSORIES.</u></p> <p>a. Air Compressor with filter .</p> <p>b. Carbon Dioxide Cylinder with rubber pipe & pressure release cock.</p>																										
52.	<p><u>'MSI' Seed Dryer. :-</u> Inside made of s. s. and outside of M.S. duly painted with enamel paint. Air circulating fan with heavy duty blower fitted on the side of the oven with ON/OFF switch. A ventilation is provided at the top of the oven. Temperature range from 50 deg. To 250 deg. C thermostatically controlled. To work on 220/240V single phase AC supply. Digital temp. Indicator cum controller can be fitted in lue of thermostat at extra cost.</p> <table><tr><td></td><td>Chamber size.</td><td>Tray</td></tr><tr><td>(i).</td><td>90x90x60cm</td><td>12</td></tr><tr><td>(ii).</td><td>90x90x90cm</td><td>18</td></tr><tr><td>(iii).</td><td>90x120x90cm</td><td>24</td></tr><tr><td>(iv).</td><td>90x150x90cm</td><td>36</td></tr></table>		Chamber size.	Tray	(i).	90x90x60cm	12	(ii).	90x90x90cm	18	(iii).	90x120x90cm	24	(iv).	90x150x90cm	36											
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(iii).	90x120x90cm	24																									
(iv).	90x150x90cm	36																									
53.	<p><u>'MSI' Tray Drying Oven:</u> Double walled, mounted on sturdy angle iron frame. Inner made of thick G.I. Double Sheet duly painted with high temperature aluminum paint, outer made of heavy duty PCRC duly primer coated and enamel/Powder coated paint. Insulation between inner and outer wall is done with 75mm thick glass wool to prevent any heat loss. Provided with double walled door with a system to prevent its opening. Door is provided with best quality handle, gasket etc. Provided with brackets to support the heavily laden trays (made of Alluminium) at different heights. Temp. range is from ambient to 250°C with an accuracy of $\pm 3^{\circ}\text{C}$ or as desired by you and is controlled by digital temperature indicator cum controller with PT-100 sensor. Heating is done with ISI mark heating elements made from nichrome heating wire placed in the sides of the chamber. V belt driven motor operated blower system in the side of the chamber to maintain the uniformity of the temp. throughout the chamber. Works on 220V 50 HZ single phase A.C.</p> <p>Provided with exhaust shaft on the top of the body.</p> <table><tr><td></td><td>Size</td><td>Tray</td><td>Load</td></tr><tr><td>(i).</td><td>2'x2'x3'</td><td>8 Trays</td><td>5 KW</td></tr><tr><td>(ii).</td><td>3'x2'x3'</td><td>12 Trays</td><td>8 KW</td></tr><tr><td>(iii).</td><td>3'x2'x5'</td><td>24 Trays</td><td>10 KW</td></tr><tr><td>(iv).</td><td>3'x3'x6'</td><td>48 Trays</td><td>12 KW</td></tr><tr><td>(v).</td><td>4'x3'x8'</td><td>96 Trays</td><td>22 KW</td></tr></table> <p>Rates of the Bigger Sizes can be provided on request.</p> <p>a. Timer 0-24 hrs</p>		Size	Tray	Load	(i).	2'x2'x3'	8 Trays	5 KW	(ii).	3'x2'x3'	12 Trays	8 KW	(iii).	3'x2'x5'	24 Trays	10 KW	(iv).	3'x3'x6'	48 Trays	12 KW	(v).	4'x3'x8'	96 Trays	22 KW		
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54.	<p><u>'MSI' Plant Growth chamber:</u> It has outer wall made of M.S. sheet duly painted and inner wall made up of heavy gauge s. s. sheet. The gap between inner and outer wall is filled with high grade glass wool to avoid thermal loss. Besides outer double walled door, a full view inner glass door allows inspection of test samples without disturbing the inner chamber conditions. Unit is supplied with three adjustable perforated shelves. Temp range from 5 deg. To 50 deg. C ± 1 deg. C is controlled by digital temp indicator cum controller dual mode so as to set two different temp. for day and night. Exterior illumination with fluorescent tubes fitted on both sides of the chamber accounts for artificial day light and the cyclic illumination conditions are regulated automatically by 0-24 Hr cyclic timer. When tubes are ON temp from 15 deg. To 50 deg. C can be obtained. Humidity from ambient to 95% ± 3 % RH is controlled by a controller at temperature ranging from ambient to 50 deg. C and the same is achieved by means of injecting steam. Arrangement for increasing the humidity is provided and not for decreasing.</p>	 <p>Environmental Test Chamber</p>																									






	<table><tr><th>Size</th><th>Capacity</th></tr><tr><td>(i). 505x830x415mm</td><td>6cu. Ft.</td></tr><tr><td>(ii). 570x875x550mm</td><td>10 cu. Ft</td></tr><tr><td>(iii). 650x900x550mm</td><td>12 cu. Ft</td></tr><tr><td>(iv). 700x900x650mm</td><td>15 cu. Ft.</td></tr><tr><td>(v). 775x900x775mm</td><td>20 cu. Ft.</td></tr><tr><td>(vi). 825x1200x825mm</td><td>30 cu. Ft. DOUBLE CHAMBER</td></tr><tr><td>(vii). 900x1720x800mm</td><td>45 cu. Ft. “</td></tr></table>	Size	Capacity	(i). 505x830x415mm	6cu. Ft.	(ii). 570x875x550mm	10 cu. Ft	(iii). 650x900x550mm	12 cu. Ft	(iv). 700x900x650mm	15 cu. Ft.	(v). 775x900x775mm	20 cu. Ft.	(vi). 825x1200x825mm	30 cu. Ft. DOUBLE CHAMBER	(vii). 900x1720x800mm	45 cu. Ft. “		
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55.	<p><u>DEEP FREEZER (-85°C) (ISO 9001, 14001, OHSAS – 18001 Certified)</u> <u>UPRIGHT ULTRA LOW TEMPERATURE FREEZER TEMP. UPTO -85 °C</u></p> <p>Standard Features.</p> <ul style="list-style-type: none">- Low Energy Consumption- 5 Internal compartments/shelves- Low Noise Level- 100% HCFC/CFC free- Porthole for installation of PT100/ Co2 backup— Sub lids, Castors, Lock- Advanced Battery backup digital display for 72 hours backup- Visual and acoustic alarm- Power failure alarm- Exterior alarm contact for remote monitoring- High/low temperature alarm- Probe failure alarm- Instrument (EPROM) Failure alarm- Battery backup for alarms and temperature in the event of power cut- 3 pin PT100 special designed for ultra low temperature <p>Net Capacity : 450 Liters Temp. range at 25°C : -40 / -85°C ambient (°C) Power Supply : 230 V Frequency : 50/60 Hz Insulation : 100mm</p> <p>(i). PROVIDED WITH CUSTOM DUTY EXEMPTION CERTIFICATE BY DEPARTMENT. OR (ii). WITHOUT CUSTOM DUTY EXEMPTION CERTIFICATE. <u>OPTIONAL.</u> a. SUITABLE STABILIZER</p>																		
56.	<p><u>4°C FREEZER:</u> “ISO 9001 Certified Twin Temperature Zone-Top & Bottom in FKG 371 External Thermometer CFC / HCFC free Built-in fan in FKG 371 Fan-cooled condenser Internal Fluorescent light Multi-positional shelf system Left or right hand door opening Castors at back of cabinet and adjustable feet at front Lock</p> <table><tr><th>MODEL</th><th>FKG 371</th></tr><tr><td>Capacity</td><td>381 Liter.</td></tr><tr><td>Dimension (H x W x D)</td><td>72.8” x 23.4” x 23.4”</td></tr><tr><td>Compressor</td><td>300 W</td></tr><tr><td>Temperature Range</td><td>10°C to 1°C</td></tr><tr><td>Energy Consumption</td><td>2.9 units/24 hr</td></tr><tr><td>Type of Insulation</td><td>Puff with Cyclopentane</td></tr><tr><td>No. of Castors and size (mm)</td><td>2 (40.5)</td></tr></table>	MODEL	FKG 371	Capacity	381 Liter.	Dimension (H x W x D)	72.8” x 23.4” x 23.4”	Compressor	300 W	Temperature Range	10°C to 1°C	Energy Consumption	2.9 units/24 hr	Type of Insulation	Puff with Cyclopentane	No. of Castors and size (mm)	2 (40.5)		
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a.	OPTIONAL. SUITABLE STABILIZER		
57.	<p><u>VERTICAL TYPE DEEP FREEZER:</u> (VESTFROAST MAKE) IMPORTED FROM DENMARK) (ISO 9001 Certified) TEMP. UPTO -20°C Built in condenser gives low energy consumption. No Dust Low Noise. Combination of pull out drawers and fast freeze shelves. Control panel at the top of cabinet with thermometer or temperature warning light. Thermostat Fast freeze button and lamp. Mains warning lamp. Single door. Digital Temperature display external External Lock</p> <p>Model : BFS 345 S Gross Capacity : 345 Liter. Net Capacity : 308 liters. Hours from –18 to –9 : 18 Hrs.</p> <p>OPTIONAL. Suitable Stabilizer FOR ABOVE</p>		
58.	<p><u>'MSI' Hot Plate:</u> (Temperature Controlled): Round top The Body is made of M.S. Sheet duly painted with attractive stove enamel paint. The top cast iron heating plate is round having 20 cm diameter with heating elements of 1.5 K.W. rating. Temperature is controlled by Energy regulator upto 350 Deg. C.</p>		
59.	<p><u>'MSI' Hot Plate Rectangular:</u> with cast Iron top. For continuous heating upto 350 deg. C. the body is made of specially designed perforated PCRC sheet painted with attractive stove enamel with insulated elements & Heating controlled by Energy regulator. To work on 220/230 V AC mains.</p> <p>Size</p> <p>(i). 10"x12"x6" (ii). 10"x16"x6" (iii). 12"x18"x6" (iv). 18"x24"x6"</p> <p>Optional at Extra Cost: a. Thermostat Fitted in place of energy regulator in any of above. b. Digital Temp. Indicator cum Controller for above in place of Thermostat. c. S.S. lining on the M.S. top in any of the above.</p>		
60.a.	<p><u>'MSI' Soxhlet Extraction App:</u> Heating Unit for flask of 100ml,150ml,250ml or 500ml cap without glass parts, with adjustable rod, clamps & boss heads. For 3 tests and individual on/off switch and individual Energy regulator.Hot plate type</p> <p>(i). –do- but Mantle type.</p> <p>b.. Heating Unit for flask of 100ml,150ml,250ml or 500ml cap without glass parts, with adjustable rod, clamps & boss heads. For 6 tests</p> <p>(i). –do- but with 6 Energy regulator H. P. type. (ii). –do- but with 6 Energy regulator Mantle type.</p> <p>Glass parts at extra cost. c. Glass part consists of flask, Extractor and condenser. (100/250ml. Flask cap.)... d. –do- flask 500ml cap.</p>		




61.	<p>‘MSI’ Magnetic Stirrer : with Hotplate complete s. s. body with s. s. top corrosive resistance. With heavy duty Permanent Magnet mounted on a sturdy variable speed motor for easy operation. Supplied complete with Teflon paddle and speed regulator & Energy regulator. Best Quality.</p> <p>(i). Cap. 1or 2 lit. (ii). -do- but 5 lit cap. (iii). -do- Multiple 6 Point</p>	 <p>Magnetic stirrer</p>  <p>Magnetic Stirrer/ Hot Plate Set Of 6</p>	
62.	<p>‘MSI’ Vortex Mixer: Useful for stirring centrifugal tubes, test tubes or small flasks, fitted with a neoprene rubber cup mounted eccentrically on the shaft against which at its is held the tube with its lower end pressing against the cup. Mixing action is controlled by varying the angle and pressure of the tube against the cup. Fitted with speed control arrangement. To work on 220 V AC mains.</p>	 <p>Vortex Mixer</p>	
63.	<p>Multi Tube Vortex ‘er: These multi tube is used for mixing multiple conical and round bottle tubes with variable speed vortexing which provides constant uniform mixing action it has an LED display of RPM. Time and Pulse Mode. Pulse Mode can be programmed with on and off times between 1 and 59 seconds in 1 second interval. This feature enhances vortex action by creating a more vigorous mix.</p> <p>Specifications: Speed Range 500 to 3000 RPM Timer 1 seconds to 99 hrs 59 mins Orbit 3.6 mm Maximum weight capacity 4.5 kg Tray Dimension 18x31cm</p>		
64.	<p>‘MSI’ Laboratory Stirrers. (i). Mini Stirrer: fitted with 1/20 HP motor 1200 RPM. Without controller complete on adjustable stand. (ii). Lab Stirrer: with 1/20 HP Motor 4000RPM with speed regulator (iii). Heavy duty Lab Stirrer: with ¼ HP motor with speed regulator Optional at extra cost. a. Digital RPM meter fitted in any of the above. b. Speed Controlled by Heavy duty Variac.</p>	 <p>Laboratory Stirrer</p>	
65.	<p>‘MSI’ Emulsifier/Homogenizer : Fitted with FHP motor having speed regulator and max speed 4000 RPM with Drill Chuck and CP rod fitted with heavy C.I. base. Motor cap. 1/20 HP.</p> <p>a. Spare Homogenizing cup with rod pestle. Cap. 1ml to 5ml. b. –Do- but cap. 10ml or 20ml. c. –Do- but cap. 50 or 100 ml</p>		
66.	<p>Rotary Mixer.</p> <ul style="list-style-type: none"> Provides serial rotation of tubes for extraction diffusion etc. Mixing action can be set from 5-50 RPM Timer can be set from 0-99 hrs/ 1-59 min Rotating bars for tube dia from 10-30 mm. Plastic coated spring clips Quick, easy coupling for exchange of rotating bare. <p>a. Bar for 50x1.5ml tube b. Bar for 20x15ml tube c. Bar for 12x50ml tube</p>		

67.	<p>‘MSI’ Rotary Flask Shaker: Designed for continues shaking of solutions in Erlenmeyer flasks from 50ml to 1lit cap. It is a compact bench type table top model with platform fitted with rubber discs mounted on ball bearing crank shafts to give an orbital motion to the flasks, within a diameter of approx 2”. The motor is coupled by means of V belt with pitch pulley and is mounted on a heavy and sturdy angle iron frame. Speed is controlled by mechanical speed controller. To work on 220/230 V Ac mains.</p> <p>Cap. Of flask.</p> <p>(i). 16 flasks of 250ml. (ii). 24 flask of 250ml. (iii). 36 flask of 250ml.</p> <p>OPTIONAL.</p> <p>a. Spare Platform for other capacity of flask holding at extra cost</p> <p>Optional at extra cost:</p> <p>b. DC motor drive with continuously variable electronic speed regulator in lieu of mechanical speed control and AC motor. To work on 220 Volt AC mains.</p> <p>c. Digital Speed /RPM indicator fitted in above.</p>	 <p>Rotary Flask Shaker</p>	
68.	<p>Orbital Shaker: Orbital Type of Movement 4mm Orbital Movement 2KGS Permissible Shaking weight 100-800RPM Speed Range Digital Led Speed Display 99HRS 59MINS Timer Display Operating Model with Bothway Timer/Continuous Top Plate 22x22cm 5-50 °C Permissible Abmient Temperature 90% Permanent Relative Moisture.</p> <p>Spares:</p> <p>(i). Universal Attachment (ii). Flask Holder Attachment (iii). Dish Attachment (iv). Plastic Lotus Clamp 50ml-100ml (v). Plastic Lotus Clamp 250ml (vi). Plastic Lotus Clamp 500ml-1000ml</p>		
69.	<p>Orbital Shaker: Orbital Type of Movement 20mm Orbital Movement 7.5KGS Permissible Shaking weight 20-300RPM Speed Range Digital Led Speed Display 99HRS 59MINS Timer Display Operating Model with Bothway Timer/Continuous Top Plate 33x33cm 5-50 °C Permissible Abmient Temperature 90% Permanent Relative Moisture.</p> <p>Spares:</p> <p>(i). Universal Attachment (ii). Flask Holder Attachment (iii). Dish Attachment (iv). Plastic Lotus Clamp 50ml-100ml (v). Plastic Lotus Clamp 250ml (vi). Plastic Lotus Clamp 500ml-1000ml</p>		
70.	<p>Reciprocating Shaker: Reciprocating Type of Movement 20mm Orbital Movement 7.5KGS Permissible Shaking weight 20-300RPM Speed Range Digital Led Speed Display 99HRS 59MINS Timer Display Operating Model with Bothway Timer/Continuous 33x33cm Top Plate Dimension 5-50 °C Permissible Abmient Temperature 90% Permanent Relative Moisture.</p> <p>Spares:</p> <p>(i). Universal Attachment (ii). Flask Holder Attachment (iii). Dish Attachment (iv). Plastic Lotus Clamp 50ml-100ml (v). Plastic Lotus Clamp 250ml (vi). Plastic Lotus Clamp 500ml-1000ml</p>		

71.	Dancing Shaker: <ul style="list-style-type: none"> Three dimensional combination of rocking and orbital motion Used for staining and destaining gels, blotting techniques and mixing of lab sample Non slip platform is continuously adjustable from horizontal to a steep angle Low foaming agitation and uniform mixing at slow speed Speed adjustable from 0-60 RPM Maximum permissible load is 2 kg. 		
(i).	Spare Dimpled Mat		
72.	Test Tube Roller: Test Tube Roller is designed to provide continuous rolling and rocking motion to the samples at a fixed speed. The Mixer is designed for uniform mixing of medical laboratory tests of blood, haematological determinations and other cell suspension samples. In addition it prevents sedimentation in samples such as dyes, paints, oils and cosmetics etc. Roller 5ea Speed 40rpm Roller Length 32.5cm		
73.	Rocking Shaker: Rocking shaler is used for staining and destaining gels, hybridization procedures, haematology and blotting techniques. Rockymax has a variable speed powerful DC motor to provide gentle rocking motion. All the moving parts are fitted with bearing for quiet trouble free and smooth operation. Speed 10-50RPM Timer 99 hrs 99 mins Platform Dimension 30 L X 30 B cm Maximum Load 10 Kgs		
(i).	Spare Dimple Mat		
74.	Test Tube Rotator. <ul style="list-style-type: none"> Provides mixing for diffusion dialyzing, extraction etc. Rotation can be set from 5-50 RPM Timer can be set from 0-99 hrs/ 1-59 min Rotating disks for tube dia 10-30 mm. Plastic coated spring clips Angle of Rotation adjustable from horizontal for minimal mixing to vertical for full end over end mixing 		
a.	Disk for 24x1.5ml tubes		
b.	Disk for 18x15ml tubes		
c.	Disk for 12x50ml tubes		
75.	‘MSI’ Melting Point apparatus: A metallic heating block heated with superior quality element. A focusable lens a shadow less lamp, regulator to control the heat, Unit is housed in a cast metal panel, fitted with neon light, on/off switch and regulator knob to introduce 3 capillaries. a. Thermometer for above 0-360 deg. Extra. b. Cooling Plug for above. c. Capillary tube for above. Best Indian.	 Melting Point App	
76.	‘MSI’ Colony Counter: Fitted with automatic 4 digit LED display, counting plate with illuminated standard wolfflugel ruling ensures clearly differentiated and sharply defined colonies. Each touch of marking pencil in the Petri dish increments the colony count by ‘1’ and the glowing LED display depicts the total colony count. Maximum colony Count possible upto 999. Provided with a manual reset of digital display, ON/Off switch, counting plate, 100mm dia lens, cord and plug. To work on 220 V AC mains. ALTERNATE.	 Digital Colony Counter	
a.	Colony counter for manual counting ‘MSI’: Complete with counting plate 100mm dia lens and marking pen.		


77.	<p><u>'MSI' PRECISION DIGITAL MELTING POINT APPARATUS:</u> - This is a compact instrument designed for accurate determinations of melting points of solid samples. The unit consists of a built-in magnetic stirrer, and electronic controller for adjusting the rate of heating of silicon oil bath, an ON/OFF switch, a pilot lamp, magnifier, a glare free illuminated background, a high/low range selector switch and a digital temp indicator with PT -100 sensor. The outer body is made of 304 grade s. s. The silicon bath consists of a plain cylindrical container of corning glass having capacity about 200ml. It is fitted with a special type of oil immersion heater. The rate of heating of the bath can be precisely adjusted by the controller on the panel. The tips of the capillaries filled with sample powders can be kept suspended in the oil bath through the cover. The tips can be clearly observed through the magnifier on the illuminated background of the bath. The range of the apparatus is from about 2 deg. C above room temperature upto 300 deg. C with readability 1 deg. C. the apparatus supplied with 175ml silicon oil for use upto 300 deg.C and a box of capillaries. It can also be sued for determination of boiling points, flow points and molecular weight by rast's method with special tubes, not supplied with the instruments.</p>		
78.	<p><u>'MSI' Membrane Sterility Unit:</u> Consists of s. s. holders in manifold of 3 to hold 47mm dia membrane filters, The tops of the holders are connected to the outlets of the flushing tube with silicone tubing and glass stop cock. A vacuum resistant flask or woulfs bottle must be placed between the manifold and vacuum pump. (Supplied without Woulfs Bottle and Vacuum pump).These units are used for sterility testing when the membrane filter is to be removed from the holder of incubation in culture media. A filtration area is 12.5cm. and has a holding capacity of 250ml Though only vacuum is required for filtration, some pressure is required for flushing liquids.</p>		
a.	Filter Holder s. s. to hold membrane filters of dia 47mm (250ml cap).		
79.	<p><u>'MSI' Precision rotary Microtome AO Spencer type:</u> It has a front located feed indicator with cam drive system setting from 1-50 microns in steps of 1 micron each. The object clamp takes specimen up to 32x27mm on stem of block holders. The cutting angle is adjustable through 30 deg. Two levers are provided for releasing knife holder for resetting angle and a third lever releases the entire assembly for movement on side ways to adjust horizontal distance from object. Supplied with one knife 120mm long with back and handle in box 3 holders, one honing stone, and one bottle of lubrication oil and dust cover.</p>		
80.	<p><u>'MSI' Precision rotary Microtome ERMA type:</u> It incorporates a ball and flange type object holder for specimen centering. Knife holder with lateral movement permits use of complete knife edge and has a feed range of 1.25micron in steps of 1 micron each. Supplied with one knife 120mm long with back and handle in box 3 holders, one honing stone, one bottle of lubrication oil and dust cover.</p>		
81.	<p><u>'MSI' Base Sledge Microtome: Precision rotary Microtome (Lipshaw type):</u> It is useful for sectioning of bone tissues, The wheel is counted balanced with locking device and has automatic feed and release mechanism. A light cover hinged at back is provided for protection of internal parts from dust. Feed range 1-50 microns in step of 1 micron each is controlled smoothly by dial control in the rigid position. For easy positioning of the object to the knife and for returning the feed to the starting position, the feed crank is located at the left side of the microtome, and the feed pawl automatically ceases to function when the feed reaches the extreme forward position.</p>		
82.	<p><u>'MSI' Automatic Knife Sharpener:</u> AO Spancer type fitted with geared motor which ensures an equal level angle by moving the knife to and fro and in the process reversing the same at regular intervals. A transparent hinged cover is fitted to top to prevent dust. An adjustable 0-60 min timer is fitted to the unit for sharpening for a pre set duration. Knife of length up to 185mm can be sharpened on the unit. Supplied complete with one universal knife holder one redressing pad, two honing plates and cord and plug.</p>		
83.	<p><u>Microtome Accessories:</u></p>		
(i).	Blade for blade holder.		





(ii).	Microtome blade Holder Chrome Plated.		
(iii).	L-blocks. 37x25x15mm		
(iv).	Block Holders. Set of 3.		
(v).	Microtome Razor 120mm. With back and Handle in wooden box		
(vi).	Sharpening Hone 6"x2" superior.		
(vii).	Leather strap.		
84.	<u>'MSI' Slide Warming Table</u> with thermostat		
	<u>Size</u>	Aluminum	
(i).	10"x12"	Top	
(ii).	10"x16"	4400.00	
(iii).	12"x18"	6600.00	
		7900.00	
85.	<u>'MSI' Tissue floating Bath TFWB-118:-</u> This bath is designed to remove the wrinkles and distortion produced in embedded tissue sections by the slicing action of the microtome knife. The clinical technicians or pathologists deposit the sections of the embedded tissue on the surface of the warm water bath where they quickly soften ,unfold and flatter out , supported by the surface tension .Each section can then be lifted out o n a microscope slide and set on the board edge of they bath ,where gentle heat dries them gradually. The black interior of the bath enables the operator to examine the near transport sections with ease. The exterior is attractively finished in white backed enamel. Fiberglass between the walls of the bath provides. Excellent thermal insulation. The bath is fitted with pilot light on/off switch and thermostat to control from ambient temperature to 500 with an accuracy of $\pm 1^0$ for operation on 220 volts AC. Sizes Inside Dia. x Depth x Width of edge		
(i).	250x115x50		
(ii).	225x75x40		
(iii).	200x50x40		
a.	Digital Temp. Indicator cum Controller for above		
86.	<u>'MSI' IR Moisture Balance IBM-22:-</u> It consist of a 250 Watt IR lamp, a sensitive torsion balance, and an auto transformer all housed in a compact cabinet made of solid cast aluminum, having robust design. The infrared radiation from the lamp is used for heating the sample. The temp. is controlled by the Auto transformer. The sensitive torsion balance uses magnetic damping to damp the vibrations of the pan. The instrument is directly calibrated in percentage of moisture between 0% and 100%. The instrument uses only 5 grams of the material. OTHER CAP. INSTRUEMNTS LIKE 10GM OR 20 GM CAN ALSO BE SUPPLIED. The aluminum pans are cheap and are disposable. This helps avoid loss of time which otherwise would be spent each time to clean the pans after the experiment is done. IR Moisture Balance is a very reliable and sturdy instrument for an accurate determination of the moisture contents of materials which do not undergo chemical change when exposed to IR radiation. Since drying and weighing of the samples is done simultaneously, the instrument is especially useful for substances which quickly reabsorb moisture after drying. Observations can be taken quickly and the results obtained are accurate. The instrument has been profitably utilized for a reliable determination of moisture contents of Ag. Soils, foods, chemicals, plastics, pharmaceuticals, construction soils and other similar materials.		
	<ul style="list-style-type: none"> Sturdy, Light and Portable. Directly calibrated in Moisture %. Provision for Controlling Temp. Samples from 5 gm to 25 gm can be tested. (Please specify at the time of Order) Easy to operate and easy to handle. 		







	<ul style="list-style-type: none"> • Accuracy 0.2% by direct reading and 0.1% by estimation. • With Infra Red Lamp. • Power –220/230 V AC mains. <p>ACCESSORIES SUPPLIED WITH THE instrument:</p> <ul style="list-style-type: none"> • 12 no. Disposable al. pan. • Pair of forceps. • Instruction Manual. <p>SUPPLIED COMPLETE AS ABOVE.</p> <p>Optional:</p> <p>Timer with alarm to give a continuous buzz after turning the IR lamp off after the specified time.</p> <p>ALTERNATE.</p> <p>Precisa make Digital Moisture Analyzer Model XM-60</p> <p>(i). -do- Model XM-120</p> <p>(ii).</p>		
87.(i).	<p>Monocular Microscope: ISI marked Microscope with standard set of Objective 10x,45x & 100x (Oil immersion, spring loaded) properly Para focal, color coded and high resolution, Eyepiece 10X Wide field eyepiece. All optics are coated with anti reflection and fungus resistant. Coarse and fine movement with Mechanical stage and Abbe condenser. Very superior quality.</p> <p>(ii). -do- but without Mechanical Stage same as above.</p> <p>Optional.</p> <p>a. Compact Light arrangement with pigmy lamp for above. At extra cost</p>		
88.	Olympus student Monocular Microscope Model HSA		
89.	Olympus Laboratory Monocular Microscope Model HB.		
90.	Olympus Laboratory Monocular Microscope Model GB.		
91.	Olympus Research Microscope Model CH 20iBi Binocular.		
92.	Olympus Research Microscope Model CH 20iTr. Trinocular.		
93.	Olympus Research Microscope Model CX21iBi Binocular.		
94.	Olympus Research Microscope Model CX21iTr: Standard set complete, in-built 6V 20W halogen light illuminator, with Anti-Fungus Plan Achromatic Objectives 4x, 40x, 40x (spring) & 100x (oil, spring) paired eyepieces wide field 10x (F.N.20) in thermocole packing, manufactured under license from Olympus Corporation, Japan		
95.	Magnus Inclined Monocular Microscope Model MLM.		
96.	Magnus Inclined Binocular Microscope Model MLX-B		
97.	Magnus Inclined Trinocular Microscope Model MLX Tr. Trinocular.		
98.	Magnus Stereoscopic Binocular Microscope. Model MS-24 or MS-13		
99.	Magnus Zoom stereo Binocular Microscope Model MSZ-Bi.		
100.	Magnus Zoom Stereo Trinocular Microscope Model MSZ-TR.		
101.	Magnus Binocular Research Microscope Model MLXi.		
102.	Magnus Trinocular Research Microscope Model MLXi-Tr		
103.	Magnus Research Microscope Model ICON (LED)(Binocular Version)		
104.	Magnus Research Microscope Model ICON (LED)(Trinocular Version)		
105.	Magnus Binocular Microscope Model MLX-B (Freedom)		
106.	Magnus Trinocular Microscope Model MLX-Tr (Freedom)		
107.	Magnus Binocular Research Microscope Model MLXi (Freedom)		
108.	Magnus Trinocular Research Microscope Model MLXi-Tr (Freedom)		
109.	Magnus Inclined Monocular Microscope Model MLX-M		
110.	Magnus Research Microscope Model ICON with quintuple Nosepiece (Trinocular Version)		
111.	Magnus Monocular Microscope Model MLX-M (LED)		
112.	Magnus Binocular Microscope Model MLX-B (LED)		
113.	Magnus Trinocular Microscope Model MLX-Tr (LED)		







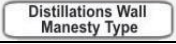
114.	Magnus Monocular Microscope Model MLX-M (Freedom)		
115.	Magnus Research Microscope Model ICON (LED) with quintuple nose piece (Trinocular version)		
116.	Magnus Research Microscope Model ICON (Freedom) (Binocular Version)		
117.	Magnus Research Microscope Model ICON (Freedom) (Trinocular Version)		
118.	Magnus Research Microscope Model ICON (Freedom) with quintuple nosepiece (Trinocular Version)		
119.			
120.			
121.	Magnus MIPS-USB (5 mp) Microscope Image Projection System		
122.	Magnus Adapter		
123.	Magnus C-Mount Adapter		
124.	Optional Filter for Green Excitation		
125.	Phase Contrast Objective 40x		
126.	Magnus Digital Microphotography System: consisting of : Olympus Interchangeable Lens Type Live View Digital Camera (above 12 mega pixels) along with one zoom lens, rechargeable battery, charger, USB, cable & Magnus carry bag. Compatible 4GB memory card & Magnus optically corrected microscope adapter. The price includes the designing & optical alignment cost. Note: Presently the camera model E-PL1 is being supplied. In case if it is discontinued the camera available (of equivalent specifications) at the time of will be supplied.		
127.	Q-Imaging (Model MP3.3-RTV-R-CLR-10-C) Micro Publisher 3.3 RTV, 3.3 mega-pixle CCD Coler- Bayer Mosaic, 10-bit, Real Time Viewing COOLED CCD CAMERA,		
128.	Olympus (Japan) Phase Contrast Attachment for C x 21i consisting of CX-PH1 Ring slit PH1, CX-PH2Ring slit PH2, PLCN10XPH Plan achromat phase contrast Objective 10x/0.25, WD10.6 PLCN10XPH Plan achromat phase contrast Objective 40x/0.65, WD10.6 (Spring) CT-5 Centering telescope & 43IF550-W45 Interference green contrast filter 45mm dia.		
129.	Magnus Stereoscopic Binocular Microscope		
a.	Model MS 24 with turret mounted (2x & 4x) in-built objectives		
b.	Model MS 13 with turret mounted (1x & 3x) in-built objectives		
130.	Olympus Zoom Stereo Binocular Microscope Model .SZ51		
131.	Olympus Zoom Stereo Binocular Microscope Model .SZ61		
132.	Olympus Zoom Stereo Trinocular Microscope Model .SZ61-TR		
133.	Optional Accessories (for SZ51/61 Series)		
a.	Auxillary Objective 110LI 1.5X / 2X (for SZ51/51 Series)		
b.	Eyepieces (Paired) WHSZ15-H /20X-H (for SZ51/61 Series)		
c.	Olympus Transmitted illumination Attachment SZ2-ILA-LSGA		
d.	6V15WHAL halogen bulb (with reflector) (for LSGA illuminator)		
134.	Olympus Binocular Research Microscope Model. CX31		
135.	Olympus Trinocular Research Microscope Model. CX31TR		
136(i)	Olympus Binocular Research Microscope Model. CX41 without objective & Condenser.		
(ii).	Plan Achromat Objective 4x,10x,40x,100x(spring,oil)& Brightfield Condenser ,N.A.1.25,with A.S. vernier Scale.		
137(i).	Olympus Trinocular Microscope Model. CX41-TR without objective & Condenser.		
(ii).	Plan Achromat Objective 4x,10x,40x,100x(spring,oil)& Brightfield Condenser ,N.A.1.25,with A.S. vernier Scale.		
138.	Simple Polarizing attachment consisting of polarizer and analyzer		
139.	Olympus Upright Phase Contrast Attachment for CX41 Microscope with Slider Condenser		



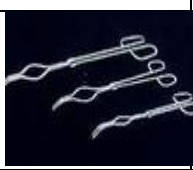




140.	Olympus Upright Phase Contrast Attachment for CX31/41 Microscope without Phase Contrast/ Dark Field Condenser. Phase Contrast/ Dark Field Condenser.		
141.	Olympus Dual Viewing Attachment Model. CX-DO2 Standard Set		
142. a. b. c. d.	Olympus Binocular Inverted Phase Contrast Microscope Model. CKX31. CKX31SF2. CKX31 frame with binocular tube and eyepieces (2pcs), including 30W lamp socket AR3553, 35mm dia. Petri dish holder AD0675, allen wrench GA3720, tag AD0764, 6V30W HAL (2pcs) and ABX10SA screw UPLFLN4XPHP. U plan semi apochromat phase (pre-center) objective 4X/0.13, W.D.17.0 CACHN10XPHP. Acromat Phase (per-center) objective 10X/0.25, W.D.8.8mm LCACHN20XPHP. Long working distance achromat phase contrast (pre-center) objective 20X/0.4, W.D.3.2		
143.. a. b. c. d.	Olympus Binocular Inverted Phase Contrast Microscope Model CKX41 CKX41SF2. CKX41 frame, including 30W lamp socket AR3553, insert plate AQ1180, allen wrench GA3720, tag AD0764, 6V30W HAL (2pcs) and AB4X10SA screw UPLFLN4XPHP. U plan semi apochromat phase (pre-center) objective 4X/0.13, W.D.17.0 CACHN10XPHP. Acromat phase (pre-center) objective 10X/0.25, W.D.8.8mm LCACHN20XPHP. Long working distance achromat phase contrast (pre-center) objective 20X/0.4, W.D.3.2		
144. a. b. c. d. e. f. g.	Olympus Trinocular Inverted Phase Contrast Microscope Model CKX41TR CKX41SF2. CKX41 frame, including 30W lamp socket AR3553, insert plate AQ1180, allen wrench GA3720, tag AD0764, 6V30W HAL (2pre-center) and AB4X10SA screw U-CTR30-2. Trinocular tube, FN20, fixed light pass, Bi/Photo: 50/50 UPLFLN4XPH. U plan semi apochromat phase objective 4X/0.13, W.D.17.0 CPLN10XPH. Acromat phase (pre-center) objective 10X/0.25, W.D.8.8mm LCACHN20XPH Long working distance achromat phase objective 20X/0.4, WD 3.2 LCACHN40XPH. Long working distance achromat phase objective 40X/0.55, WD2.2 WHB10X. Wide field eyepiece 10X, FN20		
145.	Olympus Multi Headed Microscope (10headed) Model BX51 or equivalent		
146.	Olympus Multi Headed Microscope (5headed) Model BX41		
147.	Olympus Reflected Light Fluorescence Attachment (B&G Excitation): for CX41 Microscope		
148. a. b.	Olympus Fluorite UPLFL Objective for Fluorescence Applications & Research Applications (for use with BX/CX series of microscope) Fluorite Objective 40x Plan Fluorite UPLFLN Objective with 41X magnification Fluorite Objective 100x Plan Fluorite UPLFLN Objective with 10X magnification		
149.	Micro LED- Fluorescence Attachment Blue Excitation (480nm) For Auto-Immune Tests Applications: (for use with MLXi / ICON series microscope) Standard consists of: Micro LED High efficiency illuminator for transmitted light fluorescence		





	<p>(clamps directly on microscope stand allowing also transmitted light brightfield microscopy), 2 positions filter slider with O-rings & Transport box alongwith Blue LED cassette with excitation wavelength 480nm, long pass 510nm, emission filter,</p> <p>Features: The use of a high power solid state LED (source from Fraen Corp, Italy) enables increased performance replacing conventional mercury arc-lamps. Light Source Lifetime: Typically 30000 hrs, thus allowing for many yrs. Of operation & cost savings. No need of any special alignment procedure Reduction of maintenance & heat production No warmup time required for light source. Allows Transmitted Light Observation without removing the Fluorescence module. Battery Pack Option for field operation (Optionally Available at extra cost)</p>		
150.	Micro LED- Fluorescence Attachment Royal Blue Excitation (450nm) For BT Tests Applications (for use with MLXi / ICON series microscope) Standard set consists of:		
151.	Micro LED- Fluorescence Attachment Blue (480nm) & Green (535nm) Excitation- For Immune Tests Applications (for use with MLXi / ICON series microscope) Standard set consists of:		
152.	Micro LED- Fluorescence Attachment Blue Excitation (480nm) ForAuto-Immune Applications (for Existing Olympus CX series microscope users) Standard set consists of:		
153.	Micro LED- Fluorescence Attachment Blue (450nm) & Green(535nm)Excitation - for Auto-Immune Tests Applications (for Existing Olympus CX series microscope users) Standard set consists of:		
154.	<p>Stage Micrometer:</p> <p>(i). 0.01mm best Indian.</p> <p>(ii). –do- but Japan.</p> <p>(iii). Ocular Micrometer 10mmx100 Parts Indian</p> <p>(iv). –do- but Japan</p>		
155.a.	<p>‘MSI’ Inverted Microscope: Inverted Tissue Culture Microscope: Inverted Binocular Microscope for tissue culture examination having coarse and fine adjustment, Incident lamp with variable light control arrangement, with ling working distance objectives and binocular head, complete with following optics in corrugated box. Objective: 5x, 10x, 20x &40x, Wide filed Eyepiece 10x (paired).</p> <p>b. –do- but trinocular version.</p>		
156.	<p>Magnus Inverted tissue Culture Trinocular Microscope Model INVI: For brightfield and phase contrast applications (30° inclined, interpupillary 48mm~75mm) having 6v30w halogen light illuminator, quintuple revolving nosepiece, coaxial coarse (stroke : 37.7mm per rotation) & fine (stroke : 0.2mm per rotation) adjustment, plain stage (160x250mm) with glass insert, auxiliary stage 70x180mm, Condenser LWD 72mm, Long working distance plan infinity Brightfield Objectives 4x/0.1 (W.D 18mm) & 40x/0.6 (W.D 2.6mm – Cover Glass 1.2mm) And phase Contrast Objectives 10x/0.25 (W.D 10mm) & 20x/0.4 (W.D 5.1mm) with phase annulus plate (10x-20x,40x) & High eyepoint, extra wide fide eyepiece EW10x (F.N 22) Standard set complete.</p> <p>Features: Long working Distance Plan Infinity Optics Pre-Centered Phase Annulus Trinocular Port in Standard Unit Excellent Field Flatness</p>		







157.	<p><u>Over Head Projector:</u></p> <p>a. ‘MSI’ Overhead Projector A4 size with 2 bulb facility, Imported Fresnel lens and smooth folding arm and head.</p> <p>b. Braun Imported Over head Projectors Paxilux/Vision –250.Libarty</p> <p>c. –do- Paxilux/Vision 285 model.</p> <p>d. –do- Paxilux /Vision 285 Deluxe.</p> <p>e. Braun/Liberty paxiscope XL (episcope Direct projector)</p> <p>f. Mega power visual Presenter MVP-800 auto focusing, resolution 470 TV lines,22X optical zoom, lens f3.9-85.8mm, f=1.6 -3.2 motorized.</p> <p>g. Mega power portable visual presenter MVP-231 Goose neck mechanics, 60x mechanical zoom by movement of the neck, resolution 470 TV lines, Suitable for all LCD/DLP projectors, video output, easy to carry around supply with carrying bag.</p> <p>h. –do- but with 2x digital zoom, conversion of S video input to VGA output. Model 230</p> <p>i. –do- but Model MVP-820.</p>		
	VAT 14%		
158.	<u>LCD Projector:</u> Computer Beamer 2300 Lumens. Imported.		
	VAT 14%		
159.	<p><u>‘MSI’ Projection Screen:</u> with Tripod Stand very superior quality spring action for winding the projection cloth. Nicely painted housing.</p> <p>(i). --do-- without Tripod Stand</p>		
	VAT 14%		
160.	<p><u>Slide Projector:</u></p> <p>(i). Liberty Braun Nova mat 130AF automatic 35mm slide projector with auto focus & CABLE REMOTE CONTROL.</p> <p>(ii). Liberty Braun Nova mat E-150 with cordless infrared remote.</p>		
	<p><u>Optional at extra cost.</u></p> <p>a. Projection Screen with Tripod Stand very superior quality spring action for winding the projection cloth. Nicely painted housing.</p> <p>b. Motorized Projection Screen Liberty Show Deluxe Motorized Screen (Glass Beaded Fabric) with cordless Remote Control. 6’x8’</p> <p>c. Liberty Show Deluxe Motorized Screen (Matt White Fabric) with cordless remote control. 6’x8’.</p> <p>d. Printer Laser jet 4 in 1 Black & white HP or equivalent.</p> <p>e. Printer Laser jet 3 in 1 Black & white HP or equivalent.</p> <p>f. Printer Laser jet 4 in 1 Color HP or equivalent.</p> <p>g. Ink Jet Pinter for Photo quality print A4 size Photo smart color. HP or equivalent</p> <p>h. Office jet Printer 4 in 1 color printer A4 size. Print, Fax, scan & copy. HP or equivalent make</p> <p>i. Laser torch dual function. Very sturdy.</p>		
	VAT 14%		
161.	<u>‘MSI’ TLC kit complete:-</u> Comprising of moveable applicator (spreader) with built in arrangement)-2mm Perspex base plate 114x23 cm, Aluminium Carrier,		





	<p>Perspex spotting temp, plate, developing chamber with lid, five TLC plates 20x20cm, TLC plates 20x5 cm, scribe for marking lines, and chamber with lid , Rs. 6950.00five TLC plates 20x20cm, two TLC plates 20x5 cm, scribe for marking lines, and micropipette and glass sprayer with rubber bellow, Complete with aluminium applicator.</p> <p>-do- but with brass applicator</p> <p>Optional at extra cost.</p> <p>a. TLC Glass plate 20x20 cm</p> <p>b. -do- 20x10 cm</p> <p>c. -do- 20x5 cm</p> <p>d. TLC Chromatography Tank (Developing chamber with cover for plate size) 20x20 cm</p> <p>e. -do- 20x10 cm</p> <p>f. -do- 20x5 cm</p> <p>g. Desiccators cabinet 30x50x35 cm</p> <p>h. Gel Spreader for TLC Plates Made of Brass Nickel plated.</p> <p>i. -do- but of aluminum</p>																		
162. a.	<p>‘MSI’ Paper Chromatography Cabinet: Ascending or Descending, made of teak of wood and glass construction. It can accommodate two s. s. troughs and 6 glass rods. Size :- 60x30x60 cm for 4 filter paper of 46x57 cm</p> <p>b. -do- 80x37x65 for 6 filters</p>																		
163.	<p>‘MSI’ Vacuum Pump: Has developed double stage high vacuum pumps add these are reliable in performance fir laboratory and industrial application. These are V belt driven having 400 RPM and fitted with best quality electric motor mounted on CI base plate. Suitable to work on 220 V 1 Ph AC mains.</p> <p>Cap.</p> <table><tr><td>(i).</td><td>25 lit/min</td><td>0.25 HP</td></tr><tr><td>(ii).</td><td>50 lit/min</td><td>0.25 HP</td></tr><tr><td>(iii).</td><td>100 lit/min</td><td>0.5 HP</td></tr><tr><td>(iv).</td><td>150 lit/min</td><td>0.5 HP</td></tr></table> <p>Optional at extra cost.</p> <p>a. Moisture Trap.</p> <p>b. Vacuum Gauge with regulator.</p> <p>c. Non Return Valve.</p>	(i).	25 lit/min	0.25 HP	(ii).	50 lit/min	0.25 HP	(iii).	100 lit/min	0.5 HP	(iv).	150 lit/min	0.5 HP	 <p>Single stage</p> <table><tr><td>10500.00</td></tr><tr><td>13500.00</td></tr><tr><td>17000.00</td></tr><tr><td>20500.00</td></tr></table>	10500.00	13500.00	17000.00	20500.00	
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10500.00																			
13500.00																			
17000.00																			
20500.00																			
164.	<p>‘MSI’ Vacuum cum pressure pump (diaphragm type): with suitable motor pump and creates the vacuum throught a diaphragm.</p> <p>(i). Cap. 25 lit with ¼ HP motor</p> <p>(ii). Cap. 46 lit with ½ HP motor</p>																		
165.	<p>Physical Balance: KeRoy make teakwood case and sun mica base very high All Brass nicely polished parts. Model P-1</p> <p>a. Weight box for above Physical 50 gm cap.</p> <p>b. -do- 100 gm cap.</p>																		
166.	<p>ANALYTICAL Balance: KeRoy make teakwood case and sun mica base precision. All Brass nicely parts. Model K-1</p> <p>a. Weight box for above Analytical 50 gm cap.</p> <p>b. -do- 100 gm cap.</p>																		



167.(i).	Analytical balance single pan: KeRoy. Cap. 200gm acc. 0.1 mgm single pan balance. Best quality.		
(ii).	-do- Dhona make.		
168.(i).	Balance Portable: Dial Type With top (Kitchen Scale) cap. 1 kg x 5 gm		
(ii).	-do- Cap.2kg x 10gm.		
(iii).	-do- Cap.5kg x25gm.		
169.	Haemocytometer: Complete in Box.		
a.	Superior makes Counting Chamber & German Pipettes.		
b.	Superior makes Counting Chamber & Indian Pipettes.		
c.	Superior makes Counting Chamber & China Pipettes.		
d.	Rohem standard Counting Chamber & German Pipettes.		
e.	-do- but with Indian Pipettes.		
f.	Rohem Silverlite Counting Chamber & German Pipettes.		
g.	-do- but with Indian Pipettes.		
170.(i).	Haemometer: German Original.		
(ii).	Top Make Indian best Plano Haemometer.		
(iii).	-do- Prismatic Haemometer.		
(iv).	-do- Round type.		
(v).	Haemoglobinometer ERMA Japan Analogue.		
171.(i).	Ultrasonic Processor/sonicator: Model EI-125 UP: Power output 125 Watt average variable form 70 to 100% Probe dia: 5mm/10mm/12mm (Please specify), Digital timer: 0-99 min. Power required 230V AC mains.		
(ii).	-do- same as above but model EI-250UP Power Output :250 Watt average. FOR SPECIFICATION ask for PHAMPHLET.		
172.	Ultrasonic Flaw Detector: Model EI-751UP. With Normal Probe-2.5 MHz,20mm dia & BNC to BNC cable 2 meter long. Additional Essential Accessories-		
a.	Battery-6V 4.5 AH 2 NO.		
b.	Foam Leather Carrying case.		
c.	IIW Block (IS-4804-1972)		
d.	Step Wedge-1 to 10mm.		
e.	Battery Charger.		
	Optional Accessories:		
f.	CD Probe 2 or 4MHz,20mm dia.		
g.	Angle Probe 2 or 4 MHz,45 deg. 9x8mm		
h.	Membrane Probe 2 or 4 MHz,25mm dia.		
i.	DGS scales		
j.	Other Special Probes		
173.(i).	'MSI' Distillation assembly s. s Manesty Type:- Wall Mounted complete s. s. body, electrically operated easily replaceable immersion type heaters. Wall mounted. Cap. 2 lit/hr		
(ii).	-do- 3 or 4 lit/hr		
174.	'MSI' Distillation assembly glass: Ultra purification system. All Borosil Glass Horizontal model cap 4 lit/hr. automatic cut off. EDU Still		





175.	<p>‘MSI’ Ultrasonic Cleaners: Standard Models Single Chamber made of s. s. they are indigenously manufactured to high international specifications and are backed by over 50 years experience & ready acceptance by professionals from a wide range of industries for their varied need. Ultrasonic Power at high frequency-normally 30 KHz (also 23 KHz or 40 KHz) is fed to piezo electric crystals. The electrical power is converted to mechanical vibrations by these piezo electric transducers (PZT). The transducers are bounded to the bottom of the s. s. stand containing cleaning solutions. The mechanical vibrations are transferred to the liquid through the tank surface. These intense vibrations create microscopic bubbles known as cavities in the liquids. The cavities thus formed implode with high pressure forming brushing effect on the surface of the components to be cleaned. As a result the contamination is removed.</p> <table><thead><tr><th></th><th>Tank size.</th><th>Cap. In lit</th></tr></thead><tbody><tr><td>(i).</td><td>150x85x65 mm</td><td>0.5</td></tr><tr><td>(ii).</td><td>150x140x65 mm</td><td>1.0</td></tr><tr><td>(iii).</td><td>240x140x65 mm</td><td>1.8</td></tr><tr><td>(iv).</td><td>240x140x150 mm</td><td>3.5</td></tr><tr><td>(v).</td><td>250x150x150 mm</td><td>6.0</td></tr><tr><td>(vi).</td><td>300x200x175 mm</td><td>10.5</td></tr></tbody></table>		Tank size.	Cap. In lit	(i).	150x85x65 mm	0.5	(ii).	150x140x65 mm	1.0	(iii).	240x140x65 mm	1.8	(iv).	240x140x150 mm	3.5	(v).	250x150x150 mm	6.0	(vi).	300x200x175 mm	10.5		
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(iv).	240x140x150 mm	3.5																						
(v).	250x150x150 mm	6.0																						
(vi).	300x200x175 mm	10.5																						
176.	<p>‘MSI’ Drawing Board.</p> <p>(i). Drawing Board: 45x30cm. Made of seasoned wood & tongue joined</p> <p>(ii). Drawing Board Imperial 23”x36” approx.</p> <p>(iii). Stand for above Drawing Board.</p>																							
177.(i).	<p>First Aid Box: Routine quality lab model.</p>																							
(ii).	-do- but big size best quality																							
178.(i).	<p>‘MSI’ Crucible tongs: s. s. 6 “</p>																							
(ii).	-do- 8”																							
(iii).	-do- 10”																							
(iv).	-do- 12”																							
(v).	-do- 24”																							
179.(i).	<p>‘MSI’ Test Tube brush: medium</p>																							
(ii).	-do- large																							
(iii).	<p>‘MSI’ Bottle brush small</p>																							
(iv).	Bottle brush large																							
180.(i).	<p>‘MSI’ Spatula : s. s. 6”</p>																							
(ii).	-do- 8”																							
181.(i).	<p>‘MSI’ Forceps, Micro dissecting: s. s. 4” curved serrated</p>																							
(ii).	-do- 4” straight																							
182.	<p>‘MSI’ Needles medium.</p>																							
183.(i).	<p>‘MSI’ Scissors Micro dissecting 4”: curved sharp pointed</p>																							
(ii).	-do- 4” straight sharp point																							
184.	<p>‘MSI’ Slide Blue Star.</p>																							
185.(i).	<p>Aluminium Foil: 9 mtr roll</p>																							
(ii).	-do- 1 kg roll																							
186.	<p>Tissue Paper roll: 2 ply imported paper.</p>																							
187.	<p>Apron Coat: Cotton white.</p>																							
188.	<p>Cotton: 500 gm pkt.</p>																							
189.	<p>Glassvials: 5ml with aluminium screw cap. (Sample bottles)</p>																							
190.	<p>Brown: paper for packing.</p>																							
191.	<p>Thread: for packing of instruments for autoclaving</p>																							
192.	<p>Parchment Paper for Osmosis 9cm x 14.5cm.</p>																							
193.	<p>‘MSI’ Spring Balance: 500gm.</p>																							




194.	<u>'MSI' Quartz Prism:</u> 15x15mm																																		
195.	<u>'MSI' Test Tube Stand :-</u> Made of aluminium sheet. <table><tr><th>No. of Holes</th><th>Dia of Hole mm.</th></tr><tr><td>(i).</td><td>12</td></tr><tr><td>(ii).</td><td>18</td></tr><tr><td>(iii).</td><td>25</td></tr><tr><td>(iv).</td><td>12</td></tr><tr><td>(v).</td><td>18</td></tr><tr><td>(vi).</td><td>25</td></tr><tr><td>(vii).</td><td>12</td></tr><tr><td>(viii).</td><td>18</td></tr><tr><td>(ix).</td><td>25</td></tr><tr><td>(x).</td><td>12</td></tr><tr><td>(xi).</td><td>18</td></tr><tr><td>(xii).</td><td>25</td></tr><tr><td>(xiii).</td><td>12</td></tr><tr><td>(xiv).</td><td>18</td></tr><tr><td>(xv).</td><td>25</td></tr></table>	No. of Holes	Dia of Hole mm.	(i).	12	(ii).	18	(iii).	25	(iv).	12	(v).	18	(vi).	25	(vii).	12	(viii).	18	(ix).	25	(x).	12	(xi).	18	(xii).	25	(xiii).	12	(xiv).	18	(xv).	25		
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(xiv).	18																																		
(xv).	25																																		
196.	<u>'MSI' Enamel Surgical Trays without Cover:</u> (i). 18"x12" (45x30cm) (ii). 14"x12" (35x30cm) (iii). 12"x10" (30x25cm) (iv). 11"x9" (28x22cm) (v). 10"x8" (25x20cm) (vi). 8"x6" (20x15cm) (vii). 18"x15" (45x38cm) (viii). 18"x12" (45x30cm) (ix). 15"x12" (x). 19"x24" (xi). 22"x26" (xii). 32"x22" (xiii). 32"x42"																																		
197	<u>'MSI' Enamel Surgical Trays with Cover:</u> (i). 12"x10" (30x25cm) (ii). 11"x9" (28x22cm) (iii). 8"x10" (20x25cm) (iv). 8"x6" (20x15cm)																																		
198.	<u>'MSI' Enamel Kidney Trays:</u> (i). 12" Dia 30cm (ii). 10" Dia 25cm (iii). 8" Dia 20cm (iv). 7" Dia 15cm																																		
199.	<u>Cover slips:</u> square 18mm or 22 mm or 24mm -do- round 18mm,22mm, 24mm																																		
200.(i).	<u>Dry & Wet Bulb thermometer:</u> Best Indian make.																																		
(ii).	-do- Imported ZEAL UK.																																		
201.(i).	<u>'MSI' Wire Gauge:</u> with no. 1 asbestos.																																		
(ii).	Wire gauge superior with double asbestos																																		
(iii).	Wire gauge superior with side Frame																																		
202.(i).	<u>'MSI' Tripod Stand:</u> made of heavy cast iron, three balanced screwed legs, and hammer tone painted. Triangular 10cm x 15cm.																																		
(ii).	-do- 10cmx20cm																																		
(iii).	-do- 12cmx20cm																																		





203.(i).	<u>'MSI' Stop Watch</u>		
(ii).	-do- Digital		
(iii).	Stop Clock Easel metal body.		
(iv).	Stop Watch Imported 1/10 sec. In Metal Body.		
204.(i).	<u>'MSI' Quadrants small :</u> Made of metal nicely painted with thread 25cm x 25cm		
(ii).	-do- 50cmx50cm		
(iii).	-do- 100cmx100cm		
205.(i).	<u>'MSI' Stethoscope</u> best Indian Nova phone/Pioneer make.		
(ii).	-do- but superior export quality.		
206.	<u>'MSI' Dessicators:</u> With knobbed lid Borosilicate Neutral Glass with porcelain perforated Plate.		
	Size	Plain	
(i).	160 mm	1050.00	
(ii).	210 mm	1850.00	
(iii).	240 mm	2800.00	
(iv).	300 mm	4500.00	
(v).	120 mm	800.00	
207.	<u>'MSI' Sieve shaker.</u> <u>Rotap Sieve Motorized:</u> this can accommodate sieves of 8" dia and is driven by ¼ HP Motor. The circular end to end from motion to give by mechanism which is fully immersed in oil. The taping motion is given by hammer from the top.		
208	<u>'MSI' Gyratory Sieve Shaker Motorized:</u> this can accommodate up to 7 sieves of 6" or 8" dia and is Driven by ¼ HP electric motor through reduction gear. Every part of the sieve is utilized by Contact upward and downward movement. The whole gear mechanism runs in oil bath. Supplied without test sieves suitable for operation on 220V AC mains.		
209	<u>'MSI' Hand operated Sieve Shaker:</u> Can accommodate up to 7 sieves of 8" dia during the train of Gears operated by a hand wheel. A heavy fly wheel ensured smooth operation. Supplied Without test sieves and lid receiver		
210.	<u>'MSI' WET SIEVE SHAKER (YODER TYPE) :-</u> This Yoder type motor driven sieve shaker is for carrying out wet sieve analysis of material. Consists of a water reservoir and a holder for sieve which can take up to 7 sieve of 8" dia. The shaker is driven by ¼ HP motor through a belt drive. Suitable to operate on 230 V 50 cycle, single phase AC.		
	CAP.	WITH G.I. TANK	
(i).	FOR 1 SET	29500.00	
(ii).	FOR 2 SET	40500.00	
(iii).	FOR 3 SET	50500.00	


211.	‘MSI’ STANDARD TEST SIEVES: AS PER I.S. 460- 1962 S.S.Mesh framing in Brass 8” <table><tr><th></th><th>B.S.S.</th><th>A.S.T.M.</th><th>I.S.S.</th><th>MICRONS</th><th>M.M.</th></tr><tr><td>(i).</td><td>4</td><td>5</td><td>480</td><td></td><td>4.75</td></tr><tr><td>(ii).</td><td>5</td><td>6</td><td>340</td><td>1812</td><td>3.35</td></tr><tr><td>(iii).</td><td>6</td><td>7</td><td>280</td><td>2411</td><td>2.80</td></tr><tr><td>(iv).</td><td>7</td><td>8</td><td>240</td><td>2207</td><td>2.36</td></tr><tr><td>(v).</td><td>8</td><td>10</td><td>200</td><td>2057</td><td>2.00</td></tr><tr><td>(vi).</td><td>10</td><td>12</td><td>170</td><td>1698</td><td>1.70</td></tr><tr><td>(vii).</td><td>12</td><td>14</td><td>140</td><td>1005</td><td>1.40</td></tr><tr><td>(viii).</td><td>14</td><td>16</td><td>120</td><td>1200</td><td>1.18</td></tr><tr><td>(ix).</td><td>16</td><td>18</td><td>100</td><td>1000</td><td>1.00</td></tr><tr><td>(x).</td><td>18</td><td>20</td><td>85</td><td>850</td><td>0.850</td></tr><tr><td>(xi).</td><td>22</td><td>2</td><td>7</td><td>71</td><td>0.710</td></tr><tr><td>(xii).</td><td>25</td><td>30</td><td>60</td><td>60</td><td>0.600</td></tr><tr><td>(xiii).</td><td>30</td><td>3</td><td>50</td><td>500</td><td>0.500</td></tr><tr><td>(xiv).</td><td>36</td><td>40</td><td>40</td><td>425</td><td>0.425</td></tr><tr><td>(xv).</td><td>44</td><td>45</td><td>35</td><td>355</td><td>0.355</td></tr><tr><td>(xvi).</td><td>52</td><td>50</td><td>30</td><td>300</td><td>0.300</td></tr><tr><td>(xvii).</td><td>60</td><td>60</td><td>25</td><td>250</td><td>0.250</td></tr><tr><td>(xviii).</td><td>72</td><td>70</td><td>20</td><td>212</td><td>0.212</td></tr><tr><td>(xix).</td><td>85</td><td>80</td><td>18</td><td>180</td><td>0.180</td></tr><tr><td>(xx).</td><td>100</td><td>100</td><td>15</td><td>150</td><td>0.150</td></tr><tr><td>(xxi).</td><td>120</td><td>120</td><td>12</td><td>125</td><td>0.125</td></tr><tr><td>(xxii).</td><td>150</td><td>140</td><td>10</td><td>106</td><td>0.106</td></tr><tr><td>(xxiii).</td><td>170</td><td>170</td><td>9</td><td>90</td><td>0.090</td></tr><tr><td>(xxiv).</td><td>200</td><td>200</td><td>8</td><td>53</td><td>0.075</td></tr><tr><td>(xxv).</td><td>240</td><td>230</td><td>7</td><td>63</td><td>0.063</td></tr><tr><td>(xxvi).</td><td>300</td><td>270</td><td>6</td><td>53</td><td>0.053</td></tr><tr><td>(xxvii).</td><td>325</td><td>300</td><td>5</td><td>44</td><td>0.044</td></tr><tr><td>(xxviii).</td><td>350</td><td>325</td><td>4</td><td>45</td><td>0.045</td></tr><tr><td>(xxix).</td><td>400</td><td>380</td><td></td><td>40</td><td>0.040</td></tr></table>		B.S.S.	A.S.T.M.	I.S.S.	MICRONS	M.M.	(i).	4	5	480		4.75	(ii).	5	6	340	1812	3.35	(iii).	6	7	280	2411	2.80	(iv).	7	8	240	2207	2.36	(v).	8	10	200	2057	2.00	(vi).	10	12	170	1698	1.70	(vii).	12	14	140	1005	1.40	(viii).	14	16	120	1200	1.18	(ix).	16	18	100	1000	1.00	(x).	18	20	85	850	0.850	(xi).	22	2	7	71	0.710	(xii).	25	30	60	60	0.600	(xiii).	30	3	50	500	0.500	(xiv).	36	40	40	425	0.425	(xv).	44	45	35	355	0.355	(xvi).	52	50	30	300	0.300	(xvii).	60	60	25	250	0.250	(xviii).	72	70	20	212	0.212	(xix).	85	80	18	180	0.180	(xx).	100	100	15	150	0.150	(xxi).	120	120	12	125	0.125	(xxii).	150	140	10	106	0.106	(xxiii).	170	170	9	90	0.090	(xxiv).	200	200	8	53	0.075	(xxv).	240	230	7	63	0.063	(xxvi).	300	270	6	53	0.053	(xxvii).	325	300	5	44	0.044	(xxviii).	350	325	4	45	0.045	(xxix).	400	380		40	0.040		
	B.S.S.	A.S.T.M.	I.S.S.	MICRONS	M.M.																																																																																																																																																																																		
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212.	‘MSI’ Electrophoresis app: MSI/GENEI (i). Vertical Slab Gel Electroporesis Genei make Model 05-01 size 8x7cm... (ii). -do- Model 05-02 size 2x (8x7)cm (iii). -do- Model 05-03 size 16x14 cm (iv). -do- Model 05-04 2x (16x14) cm (v). -do- 16x20 1 gel 106783 (vi). -do- 16x20 2 gel 106784 Horizontal. (vii). Submarine Electrophoresis MSI make model 03-01 size 10x7cm (viii). -do- Model 03-02 size 13x13 cm (ix). -do- Model 03-03 size 13x25 cm (x). -do- Model 03-04 Size 20x20 cm (xi). -do- 30x25 cm 106614 (xii). -do- 20x37 cm 106627	 																																																																																																																																																																																					
213.(i).	‘MSI’ Electrophoresis Power supply digital: with 2 meter 0-300 Volts & 0-100mA continuously variable with short circuit and overload protection. With manual																																																																																																																																																																																						
(ii).	Electrophoresis Power Supply Digital range 0-500V, 0-500 mA variable with timer. CC & CV with manual.																																																																																																																																																																																						
214.	‘MSI’ Gel rocker for Gel Staining: – Culture Aeration, Blotting, Bathing, Platform Size: 30x30cm, Speed 0-50 RPM, Movement-See-saw, timer 0-60 min (optional) (i). Gel Rocker single Platform without timer (ii). Gel Rocker single Platform with timer (iii). Gel Rocker double Platform without timer (iv). Gel Rocker double Platform with timer	 Gel Rocker Shaker																																																																																																																																																																																					

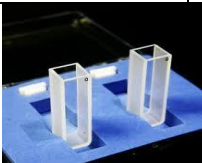

215. (i).	Digital Gel Documentation system:- Gel documentation System UVI Tech U.K. Fire Reader Gel documentation System make w/o UV Transilluminator CCD camera & software. Ideal and compact system for acquiring gel photographs and can be easily accommodated in any part of the laboratory. Ideal for documentation, quantification & publication. Upgradable to Chemilluminosence, versatile and upgradable. Steel and stainless steel darkroom. Epoxy painted for chemical resistance. Black body imaging grade. Built in roll out transilluminator. UV timer & security.																												
(ii).	CCD Camera-complete Digital Imaging system comprising of CCD camera 16 bit performance with F 1.2 Zoom lens of 8-75mm, 768x562 pixel resolution on documentation mode																												
(iii).	UV Tran illuminator (365 nm) 20x20cm imaging area, multiple image display, real time read out with full image for image acquisition, Enhancing, archiving documentation and analysis for MW, I.D. densitometry with photo quality printer.																												
a.	OPTIONAL AT EXTRA COST. HP make Laptop with 15” in built Monitor. CD/DVD drive and inbuilt speaker etc. 1.3 GHz. Standard configuration with Licensed Window software.																												
b.	EPILIGHT CONVERTER:White Light Converter																												
c.	Gel Documentation System College Model.																												
216.	‘MSI’ Micro Centrifuge: (Tinifuge): It is versatile equipment with applications: for Cell Pelleting, Quick spins for Enzymes, Reaction, Initial Spin for DNA sequencing Quick Spin for Primer Annealing/Hybridization, Serum Sampling, Other Short spin rungs. Speed 5000/1000 rpm, fixed speed, rotor FA 6 place x1 ml, Noise: <60 dB, Operating temp 0-40 deg. C.																												
(i).	Speed 6000 rpm																												
(ii).	Speed 10000 rpm																												
(iii).	Speed 14000 rpm																												
217.	Micro Centrifuge. <ul style="list-style-type: none">• Quiet and reliable• Small foot print• Built in power supply• Digital display of time & RPM• Standard 6 place Rotor for 1.5 ml tubes• Spare 12 place Rotor for 0.5 ml tubes Spare Rotor for above																												
(i).	6X1.5ml tubes																												
(ii).	12x0.5ml tubes																												
218.	Micro Centrifuge. Spinwin MC-02 is a compact and easy to use. Yet powerful enough for a wide range of molecular biology separations and quick spins. Specifications: <table><tr><td>Max. RPM</td><td>13500RPM</td></tr><tr><td>Max. RCF</td><td>12225 X g</td></tr><tr><td>Max. Capacity</td><td>1.5 (2.0ml) x 12 tubes</td></tr><tr><td></td><td>Adaptor for 0.2 ml and 0.5 ml tubes.</td></tr><tr><td>Control</td><td>Digital Feedback Control with jog Shuttle Switch (Turn + Push)</td></tr><tr><td>Display</td><td>99min. 59sec. continuous mode</td></tr><tr><td>Cooling Device</td><td>Air Cooling</td></tr><tr><td>Drive System</td><td>Brushless DC motor, Direct Drive</td></tr><tr><td>Acceleration time</td><td><-15 sec (for max. speed)</td></tr><tr><td>Braking time</td><td><-15sec (for max. speed)</td></tr><tr><td>Safety System</td><td>Motor Error Detection, Auto Stop when opening door</td></tr><tr><td>Noise Level</td><td><-57dB</td></tr><tr><td>Power Consumption</td><td>90W</td></tr></table>	Max. RPM	13500RPM	Max. RCF	12225 X g	Max. Capacity	1.5 (2.0ml) x 12 tubes		Adaptor for 0.2 ml and 0.5 ml tubes.	Control	Digital Feedback Control with jog Shuttle Switch (Turn + Push)	Display	99min. 59sec. continuous mode	Cooling Device	Air Cooling	Drive System	Brushless DC motor, Direct Drive	Acceleration time	<-15 sec (for max. speed)	Braking time	<-15sec (for max. speed)	Safety System	Motor Error Detection, Auto Stop when opening door	Noise Level	<-57dB	Power Consumption	90W		
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Power Consumption	90W																												



219.	‘MSI’ Heating Block /Dry Bath :- It is provided with a solid anodized aluminium combo block (standard) to hold 24 tubes (1.5 ml- 8 tubes, 0.5 ml- 8 tubes, 5 ml-8tubes). It is housed in recessed chamber. The temp. Controller ensure aluminium block temperature to be within +/- 0.5 deg. C of set value. It is designed for continuous use and there is no need to unplug. The aluminium Block can be autoclavable to avoid contamination.		
a.	Spare Heating Block 1.5 ml or 2 ml. or 0.5 ml any one.		
220.	‘MSI’ Lab Model Ice Flaker (Crushed Ice Machine): We offer the Ice flakers with Guaranteed Production @ 20 deg. C and 15 deg. C water temp. and DM water. IN out GMP versions we use s. s. 316 bins and outer are of s. s. 304. & GMP VERSION WE USE S.S. 304 BINS AND OUTER ARE OF MS POWDER COATED. (Recommended :- DM water or RO Water)		
	Protection capacity.	Price non-GMP version	
(i).	40-50kg	150000.00	
(ii).	70 kg/24 hr.	210000.00	
(iii).	85 kg/24 hr.	245000.00	
	FOR DETAILS AND SPECIFICATIONS SEE THE ATTACHED SPECIFICATION SHEET		
221.	Two Bed Portable Deionisers		
a.	Water Distillation App. Cap 100 lit Exchange India make Model CA-20U with Conductivity meter.		
b.	-do- Model CA-60U with digital conductivity meter		
c.	WE ARE THE AUTHORIZED DEALER OF M/S ION EXCHANGE INDIA LTD. IN YOUR AREA FOR THE ABOVE PRODUCTS. Installation charges for above any model.		
222.	PCR:		
(i).	Gradient Thermo Cycler.		
a.	96 well Gradient thermoal Cycler w/o Block unit: Gradient range- 20 deg. C to 70 deg. C, Maximum Gradient-30 deg. C (16 deg. C for 384 well), Max, ramp rate- 3 deg.C/sec, Block uniformity at 50 deg. C-0.3 deg. C, column uniformity with 10 deg. Gradient – 0.3 deg. C, Temp range 4 deg. To 99 deg. C, Temp set point precision 0.1 deg.C, Heated lid temperature – 100 deg to 115 deg. C. Connection to PC control program & software upgrades from website.		
b.	Block unit for above :- formats --- 0.2 ml cap 96, Gradient block- 0.5, 0.2 ml, 384 (optional), In situ block-yes, User interchangeable- yes.		
(ii).	96. Well Thermal Cycler.		
a.	96 well Thermal Cycler w/o Block unit : Max. temp rate – 2.6 deg. C/sec, Block uniformity at 50 deg. C-<+/-0.3 deg. D, temperature range -4 deg. To 99 deg. C, temp. set point precision -0.1 deg. C, Heated lid temp range -100 deg. To 115 deg, C, with connection to PC control program and free software upgrade from website		
b.	Block Unit for above format --- 0.2ml cap. -96 wells, (Optional -0.5ml, or 384 well), in situ block and user interchangeable.		
(iii).	Thermal Cycler with block cap. 0.2ml x 25 well block		
(iv).	Thermal Cycler with block cap. 0.5ml x 20 well block		
223.	‘MSI’ Blood Cell Counter 6 units (Clay Adam’s type) : Model BCC-10. For blood cell counting and simple computations including percentage. Each unit records up to 999 and last totalizes the cells. A bell automatically sounds at every hundred. Dual knob on both ends facilitating. Supplied in attractive wooden packing velvet lined with nitrocellulose clear for safe storage when not in use.		







224.(i).	‘MSI’ Blood Cell Counter 9 units : Model BOC – 15: Same as above but with 8 keys, have Totalizer with dual rest Knobs. Supplied in attractive velvet lined wooden box with Nitrocellulose clear polish for safe storage when not in use.				
(ii).	‘MSI’ Electronic differential Blood Cell counter :- Housed in a sleek metal enclosure it includes a Regulated Power supply housed in a separate enclosure. It has a 3 digit display with audio beep at every count and visual indication of last count. An arrangement has been provided for Cancellation of last wrong count entered. An audio beep is given at every hundred counts. Individual totals and/or percentage are obtainable at any stage of count. An in built stop watch and Timer is also provided and normal counting can be done simultaneously with the timer running. Max count possible is 999 with 8 channels keys. To work on 220/230 v AC supply.				
225.	‘MSI’ LOBORATORY JACK LJ-65. Box type: Adjustable at any time within the above range, Maximum Load capacity 25 kg.				
	Ht.	Size	All		
(i).	8”	5”x5”	1700.00	M.S. 1525.00 2100.00 2700.00	
(ii).	14”	8”x8”	2420.00		
(iii).	17”	10”x10”	2950.00		
226.(i).	‘MSI’ Tissue Culture Rack : Fabricated out of M.S. 1.5. 1.5x1.25 Inch Square pipe with powder coated paint fitted with sturdy castor wheel for smooth shifting movement of the unit. Shelves size 50 x 18 inch are made of M.S. heavy sheet of 22/20 SWG. Distance between the shelves 14/15 inch each shelves is been provided with four fluoresent tubes of 4 ft. size. The unit is workable on 220V AC mains. Heavy duty Electronic Ballast choke. The whole unit is controlled with Digital Electronic Microprocessor based Programmable timer for 7 days. Ideal unit performing Culture/Growth work in Laboratory. Total Size approx: 60”x50”x24” 4 Shelves (5 Tray)				
(ii).	-do- but 5 shelves (6 Tray)				
a.	Optional: Voltage Stabilizer 2 KVA at extra cost. Automatic				
227.	Photoperiodic Simulator. Analogue type switches on/off lights at time set by the user. Photoperiodic repeat cycle : 24 hrs. Min on/off period : 30 minutes Back up auto recharging : NICAD Powered Output : Directly drives up to 100 tubes lights of 40W Each Thermal Safety : 15 A output, Accuracy : + 1 sec. / day				
228.	Digital Photoperiodic Simulator. Same as above , but with Digital type setting of timer by Thumb Wheel Switch				
229.	Programmable Photoperiodic Simulator. With accuracy better than + 1 sec./day & facility of programming				
230.	Sequential Timer. for operating two air conditioners of 1.5 tonnes each Output : Operates two AC’s up to 1.5 tonnes each. Min. on/off Cycles : 30 Minutes				
231.	Biotech Room Temp. Controller. Temp. range 0.1 °C to 70 °C Accuracy: : + 1 °C LED : 13mm with PT-100 SENSOR Directly output 1.5 ton A.C. & 4.4 KW Heat Convector.				
232.	Microprocessor Based Room Temp. Controller. do- same as above but with programmable temperature controlling of the				






	Room.		
233.	Room Temperature Controller Analogue. Range : 0-50 °C Accuracy : + 2 °C, for 1.5 tonne AC/4.4 KW Heater		
234.	Humidity Controller Analogue. Control Humidity from Ambient to 90% with imported, Humidstat Switching unit, etc.		
235.	Humidity Controller Digital. Control Humidity up to 98% with LCD Display with imported RH Sensors and direct output for humidifier/ dehumidifier of 4KW.		
236.	Wiley Grinder (Arthur H. Thomas Type). The chamber is fitted with a hopper provided with a cover. Three delivery S.S. sieves brush, L-N Key and plastic receiver are supplied. A removable plexi glass plate permits observation during operation. <div> <div>Chamber Size</div> <div>Motor Cap.</div> <div>(i). 40 x 25mm 0.25 H.P.</div> <div>(ii). 65 x 25mm 0.25 H.P.</div> <div>(iii). 100 x 50mm 0.50 H.P.</div> <div>(iv). 200 x 75mm 1.00 H.P.</div> </div>	 <div> M. Steel Chamber 14000.00 16500.00 24000.00 38000.00 </div>	
237.	‘MSI’ Ball Mill Laboratory Type : Electrically operated having a capacity from a few gms to 1 kg or 2 kg or 5 kg Fitted with a FHP motor upto 2 kg jar and with ¼ HP heavy duty motor for 5 k. Jar Maximum speed 80 RPM supplied with steel balls for mixing and grinding. Operates on 220V Ac mains. <div> <div>Cap.</div> <div>(i). 1 kg</div> <div>(ii). 2 kg</div> <div>(iii). 5 kg</div> </div>	 <div> Ball Mill All jar. 12000.00 15500.00 26000.00 </div>	
238.	‘MSI’ Abbe Refractometer: Used for measuring refracting index in the range 1.3 to 1.7 with an accuracy of 0.001 direct on scale and 0.001 by estimation. Sugar percentage range of 0 to 95% with an accuracy of 1% on scale and 0.1 by estimation can be measured. Complete with test piece contact liquid and thermometer in wooden cabinet.	 <div> Abbe Refractometer </div>	
239.	‘MSI’ Hand Refractometer : These instruments are widely used for measuring the sugar concentration of sugar cane, fruit juice, syrups, jams, confectionery products and liquids. <div> <div>Range</div> <div>(i). 0-32%</div> <div>(ii). 28-62%</div> <div>(iii). 58-92%</div> <div>(iv). B&S 0-50%</div> <div>(v). -do- 40-85%</div> </div> Digital Hand Refractometer Model PAL-I ATGO: Japan range 0-53% <div> <div>(vi). Pocket type in nice Case.</div> <div>(vii). -do- range 45-93% PAL-2</div> <div>(viii). -do- 0-93% PAL-3</div> </div>	 <div> Hand Refractometer </div>	



240.	<p><u>'MSI' Bomb Calorimeter:</u> For Determination of Calorific Value of Liquids & solids. Designed in accordance with the Specifications of the Institute of Petroleum and the British Standard Institution</p> <p><u>Construction:</u> Bomb body machined from corrosion resistant stainless steel alloy. Each bomb tested at a pressure of 300kg/cm² for 10 minutes. Colorimeter vessel & water jacket is made of chromium-plated copper/s. s. Offset stirrer precludes heat from motor to calorimeter vessel. High mechanical standard.</p> <p><u>BOMB CALORIMETER OUTFIT:</u> - Provides a simple and inexpensive method for determination of heat of combustion organic matter and the calorific value & sulphur content of solid & liquid fuel. The outfit supplied is complete for always as per the method recommended by British Standard Institution BS 1016. All parts of the outfit have been finished and tested according to the specifications laid down by Institute of Petroleum and British Standard Institution.</p> <p><u>BOMB:-</u> The body and lid are machined from corrosion resisting steel; satisfying the special swinging and bend tests for inter crystalline corrosion and having good high temperature properties. The interior of the Bomb has been maintained cylindrical throughout its length. The capacity is approximately 300ml. The metal-to-metal seal between the body and lid is backed by a sealing ring. The closure ring is made of other corrosion resisting s. s. And hand tightening of the closure ring is sufficient to ensure perfect gas tight sealing. The Bomb is provided with a high pressure Schrader valve that simplifies the operation considerably. The valve opens and allows filling of Bomb by Oxygen because of Oxygen pressure from Cylinder. It closes when pressure from Oxygen Cylinder is cut off.</p> <p>Two electrodes are incorporated in the lid of the Bomb and in each of these a saw cut is provided so that the ignition wire can be gripped by the sliding sleeves fitted on the electrodes.</p> <p><u>TESTING OF BOMB:-</u> Each Bomb is tested before its leaves the factory, in accordance with the requirements of the Institute of Petroleum (IP 12/63T Appendix 1) and a work certificate is issued with each Bomb. This certificate gives the results of hydraulic testing under a pressure of 300 atmospheres (4400 psi) maintained for a period of ten minutes without sign of linkage. The maximum deformation must not exceed the specific limits.</p> <p><u>CALORIMETER VESSEL:</u> - The vessel is made of s. s./ copper N. P. It includes a bomb support that ensures proper positioning of Bomb in the vessel.</p> <p><u>WATER JACKET:-</u> The outer container of Jacket is made of s. s. / copper N.P. both inside and outside. The top of container carries two rods; one carries the string Unit while the other a clip for holding the thermometer. (In Digital model this rod is not supplied) An ebonite cover the top. A terminal block is fitted to the top of the outer container so that connections can be made from the firing control.</p> <p><u>OFF SET STIRRER:</u> The stirring mechanism supplied gives sufficient turbulence for effective stirring, whilst no heat is imparted to the Calorimeter water. It consists of an impeller stirrer driven at a constant speed of approximately 800 rpm. The offer arrangement whereby the motor drives the impeller via a belt precludes any possibility of heat transference between motor and calorimeter vessel contents.</p> <p><u>BOMB FIRING UNIT, VIBRATOR, and TIMER AND ILLUMINATOR WITH MAGNIFIER:</u> Outfit, for firing a calorimeter bomb AC supply mains (230 V 50 Hz). It consists of two parts via/ the Electrical Box and Vibrator – Timer Illuminator and Magnifier Unit. The electrical box is provided with terminals for stirrer unit, Vibrator-timer Illuminator and for the Bomb fuse wire. (In Digital Model Temperature Indicator is also provided).</p> <p>The Unit has provision for test of firing wire resistance or open circuit and for firing. A Green bulb indicates the first condition while red indicates the firing.</p> <p><u>CRUCIBLE:</u> Various type of crucibles are available, the standard supplied with the outfit being an s. s. Crucible of 8ml cap. Which fits in the standard support ring provided with the outfit?</p> <p>Complete as above but Digital Thermometer in Place of Back men Thermometer.</p>	
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(i).	ESSENTIAL ACCESSORIES AT EXTRA COT: Oxygen Cylinder with Stage Regulator 10 kg approx		
a. b. c. d. e. f. g. h. i. j. k. l. m. n. o. p. q. r. s. t. u.	<u>Accessories Supplied with the Instrument:</u> Bomb and Closure Ring. Calorimeter Vessel with Bomb jacket. Water Jacket. Combined Lid for Calorimeter Vessel and Water jacket. Stirrer. Connecting Leads. Connecting Tube to connect Bomb and Pressure Gauge. Connecting Tube fine adjustment value to connect Pressure Gauge and Oxygen Cylinder. Pressure Gauge on stand. Spanner for Oxygen tube connection. Ignition wire (2mtr.). Cotton Real. Stand for Bomb lid. Hook for lifting Bomb. Stainless Steel Crucible. Hook for lifting bomb. Stainless steel crucible. Gas Release Value. Valve Key. Bomb firing unit. Pellet Press.		
a. b. c. d. e. f. g. h.	<u>ACCESSORIES SUPPLIED AT EXTRA COST:</u> Ignition Wire Platinum (44 SWG). (Min order 15 gm) Benzoic Acid of Known Calorific Value Gelatin Capsules Nickel Crucible. Quartz Crucible Stainless Steel Crucible. Platinum Crucible (minimum weight 8gm). Ignition wire-Nichrome.		
241. a. b. c. d. e. f.	<u>Cuvette with Teflon lid</u> & Matched Pair Certificate. Opti Glass Made in UK. Path length 10mm. cap 3.5 ml. -Do- HELMA German Make. -Do- Disposable Cuvette Polystyrene VU Grade pack of 100. HELMA German make Quartz Curvette path length 10mm cap. 1 ml Quartz cell rectangular 10m Path length 1.4 semi micro cells. Glass Cell rectangular 10mm path length 1.4ml semi micro cells.	 Glass Cell 2700.00	
242.	<u>'MSI' Humidifier s. s. body. Cap:</u> 5lit. Based on the rotating dish splash plate principal. It produce only super fine particles of micron size, which become part of the atmosphere, thereby reaching every corner of the room, resulting in uniform humidity. Due to the upward thrust imparted to the micron sized duration of time. The unit is capable of atomizing upto 3 lit. Of water in an hour at full evaporation in the driest possible ambient conditions. The unit has body made of s. s. A single unit is effective for an enclosed space of volume up to 40 Cu. Meter. The unit is provided with high speed 2800 RPM motor to run longer period, and the blades are aerodynamically balanced to ensure drop less fumigation. To work on 220/230V AC mains.		




a.	Optional accessories:		
b.	Control box with humidistat.		
	Automatic 0-60 minute timer.		
243.	<p>‘MSI’ DE-Humidifier: (Fitted with time controlled safety device, in case humidity controller fails, for safety of the compressor) : Dehumidifiers are water condensing type, based on Refrigeration Cycle to avoid use of expensive chemicals required for different type models. The unit is self standing and is mounted on a study angle iron from, fitted with caster wheels. De humidifier removes excess moisture from the atmosphere and it is fitted with hermetically sealed compressor. Heat exchanger and water condensing coils are made of copper. Water collection tank is provided below the unit to collect condensate water. Humidity is controlled by automatic Humidistat incorporated in the unit, upto c30% +/- 3% RH, depending upon the ambient conditions. To achieve very low humidity, the room should have a independent window type air conditioner to match with the dehumidifier heat load in the room. Suitable to work on 220/230V Ac supply. Cap. 1.5 ton.</p> <p>a. Automatic stabilizer for above.</p>		
244.	<p>Viscometer: Brookfield Viscometer Please mentions the viscosity rang while ordering. Viscometers from Brookfield Eng. Lab. Inc. USA.</p> <p>(i). Dial reading Viscometers. Any range LVT/RVT/HAT/HBT</p> <p>(ii). Digital Viscometer – DV-E any range, LVDV-E/RVDV- E/HADV-E/HBDV-E</p> <p>(iii). Digital Viscometer – DV-I+ range LVDV-I+/RVDV-I+/HADV- I+/HBDV-I+298000.00 each</p> <p>(iv). Programmable viscometer DV-ii+ Pro. Any range LVD-II+P/ /RVDV-+P// HADV-II+P//HBDV-II+P</p> <p>a. DV Loader software supplied with the above free. (d)</p> <p>Brookfield Viscosity Standard 5,10,50,100,500,1000,5000,12500,30000, 60000,100000 any One (500ml)</p>		
245.	<p>Rheometer Programmable Rheometer DV-111 Ultra.</p> <p>(i). -do- Model LVDV-IIIU Viscosity 15-6M</p> <p>(ii). -Do- Model RVDV-IIIU Viscosity 100-40M</p> <p>(iii). -do- Model HADV-IIIU Viscosity 200-80M</p> <p>(iv). -Do- Model HBDV-IIIU Viscosity 800-320M</p>		
246.	<p>ROTATIONAL VISCOMETER FROM M/S FUNGILAB, SPAIN</p> <p>MARKETING BY,TOSHNIWAL INSTRUMENTS (AJMER):</p>		
(i).	<p>VISCOLEAD ONE L (Range 20-2000000cP)</p> <p>VISCOLEAD ONE R (Range 100-13000000cP)</p> <p>VISCOLEAD ONE H (Range 200-106000000cP)</p>	Equivalent to DVE	
(ii).	<p>VISCOLEAD ADV L (Range 20-2000000cP)</p> <p>VISCOLEAD ADV R (Range 100-13000000cP)</p> <p>VISCOLEAD ADV H (Range 200106000000cP)</p>	Equivalent to DV-I Prime	
(iii).	<p>VISCOLEAD ADV L with Temp. (Range 20-2000000cP)</p> <p>VISCOLEAD ADV R with Temp. (Range 100-13000000cP)</p> <p>VISCOLEAD ADV H with Temp. (Range 200106000000cP)</p>	Equivalent to DV-I Prime	
(iv).	<p>VISCOLEAD PRO L (Range20-2000000cP)</p> <p>VISCOLEAD PRO R (Range100-40000000cP)</p> <p>VISCOLEAD PRO H (Range200-106000000cP)</p>	Equivalent to DV-II Pro	
(v).	<p>PREMIUM L (Range 20-2000000cP)</p> <p>PREMIUM R (Range 100-40000000cP)</p> <p>PREMIUM H (Range 200106000000cP)</p>	Equivalent to DV-III Ultra	


247.	<p><u>'MSI' Seed/Grain Moisture meter Digital:</u></p> <p>a. <u>Model MC:-</u> 7821 for Paddy, rice, corn wheat, automatic calibration, Moisture range: 8-20% temp range: - 10 deg. To 55 deg. C,</p> <p>b. <u>Model MC 7825 G:-</u> moisture range 6-30%, 4 digits/ 10mm LCD display with color coded LED indicator, Grain code selection as follows :- Wheat/rye, paddy, rice, semolina, maize/corn, Soya bean's barley/oats, coffee, cocoa beans, linseed lentils, oil seed rape, mustard seed, peas, sorghum/Milo, sunflower & sugar beet seed, flax, grass/rye grass, seed/cockfoot, flours/soft wheat, colure buckwheat, brassicas/crussels sprout, beans.</p> <p>c. <u>Computer Moisture Meter:</u> for Grains & Seeds. Cup TYPE Range : 3-35% Paddy, Soya Bean, Wheat, Rape Seed, Cotton Seed, Cotton Seed, Millet, Maize, Barley, Rice, Sunflower seed, Bean Seed Cake, Mung Bean, Peanut PIP</p> <p>d. <u>Moisture Meter for Seed/Grain digital Microprocessor:</u> based with direct reading of Moisture percentage. Suitable for 16 Grains i.e. Rice, Rye Rice, Wheat, sunflower seed, Soybean, Sorghum, Canola complex, Oats, Rye etc. Runs on 12V battery with automatic compensation for variable due to temperature, with carrying case & battery.</p>	 	
248.a.	<p><u>Digital Wood Moisture Meter:</u> LUTRON Taiwan make range 9% - 30% with RS 232 serial interface & data hold.</p>		
249.	<p>(i). <u>Seed Counter Digital:</u> Seed Counter Model 6708 of 'Indosaw' make (Economy model) The counted seeds are here displayed continuously on the numeric LED type display. Thumbwheel switches are provided for selecting the count size. The machine automatically stops after counting the set number of seeds. You can start the new counting by pressing reset key. Specifications: LED Display Easily detachable pan Counts seed from 1 mm to 15mm Counts maximum up to 9999 seeds in a batch Reset arrangement for repeating batches of set size. Power supply 220V/50H operated. It is use full in</p> <ul style="list-style-type: none"> • Germination test (about 400 required) • Taking the test weight (of 10 & 1000 seeds) • Small packing of seed where the seeds required in number <p>(ii). <u>'MSI' Seed Counter Digital:</u> total seed to be counted 99999 counting speed 35 to 300 grains/minutes. Maximum size of grain to be counted dia 1 mm to 15 mm, digital alphanumeric display LCD 2 line.</p>		
250.	<p><u>'MSI' Seed Size analyzer:</u> Dial Caliper for measuring the length and breadth of seed</p>		
251.	<p><u>Soil pH meter:</u> Lutron make PH-220S type. Range 0.00-14.00 pH, Automatic cal for pH & temperature, water proof, spear tip ph electrode ideal for penetration into soil, meat, cheese etc.</p>		
252.	<p><u>Digital Pedometer Imported:</u></p>		



253.a.	<u>'MSI' Soil Thermometer:-</u> With BRASS CONE AT BOTTOM, filled in wooden body, range 100 deg. C or deg. F, 100 mm long brass cone.		
b.	-do- in aluminium pipe stick type range e-10 deg. To 100 deg. Alcohol filled.		
c.	SOIL. PH & MOISTURE TESTER TAKEMURA JAPAN DM-15.		
d.	Digital soil moisture meter Lutron Taiwan make pen type water resistance, 20 cm long probe & range 0-50%.		
254.	<u>'MSI' Seed analysis Kits :</u> It comprises of Mechanical weighing balance up to 100 gm, weight box up to 100 gm, enamel plate 9", sieve – 3.30 mesh, Magnifying Glass 4", scoop, measuring cylinder – 20 cc, Petri dish, forceps. These items are packed in a specially designed can vas bag.		
255.	<u>'MSI' Illuminated Purity Work Board :</u> It is designed for testing physical purity of seed samples with maximum comfort and efficiency. Also used to distinguish discolored damaged and chalky grains/seeds. Light below the rectangular 8"x5" opal glass (plexi glass) makes a handy disphanoscope. Use of this spot with chaffy grass eliminates all guess works on tests. One convenient drawer is provided in the front for large seed lots. It is fitted with a magnifying glass conversing the entire surface of opal glass. Size: 50 x 28x10 cms. (Made of teak wood for longer life). Draw Cap. : 930 CC approx.	 Clarity Board	
256.	<u>'MSI' COD Digestion app:</u> For Determination of Chemical Oxygen demand. It is a solid state block heated unit with provision for samples to be digested at a time in 38 mm dia reaction vessels with 20ml sample size to heat at temp 150 deg. C +/- 1 deg. C controlled by Digital Temp. Indicator cum controller. It has provision for 15 samples and is supplied with 15 no. glass reaction vessels and 15 no air condensers. Fitted with a 2 Hr timer, the sample after being digested for 2 hr can be analyzed using calorimeter or conventional titration method. To work on 220 V AC mains.	 COD Digestion App	
257.	<u>COD MEASUREMENT:</u>		
(i).	uP COD Vario Measurement Photometer, Digestor AL 125 with 25 measuring Cuvettes & Std. Accessories		
(ii).	COD Reactor / Digestor AL 125 (with cover)		
(iii).	COD Vario Cuvettes 25 test set 0-150 ppm, 0-1500ppm, 0-15000 ppm (any one)		
258.	<u>BOD MEASUREMENT:</u>		
(i).	BOD Measurement System with 6 sensor & standard accessories : AL606		
(ii).	BOD Incubator (Thermo-Chamber) AL654 (140Ltr. Capacity)		
(iii).	BOD Incubator (Thermo-Chamber) AL654G (140Ltr. Capacity) with Glass Door		
259.	<u>Steamclox Sterilization Indicators:</u> 3M ATI USA Pack.Of 250 no. At 121F		
260.	<u>Chemical Sterilization Dry Heat indicator:</u> SADL 251 K 160Dg.. C, 25mm, 1000 label USA		
261.	<u>Chemical Sterilization Indicator:</u> Steam Raven USA. Autoclavable tape 18mm x 50 mtr.		
262.	<u>Prochem Seam Indicator:</u> Class 5. 250 strips.		
263.	<u>Sound level Meter:</u> Digital Lutron Taiwan. Range 30-130 dB, 3 ranges		
264.	<u>Sound Level Meter:</u> (Digital) Lutron, Taiwan Range 35-130 dB 3 Ranges		
265.	<u>Sound Level Meter:</u> Digital Lutron Taiwan Range 30-130 dB with Carrying case. 3 Range with over and under range indicator Rs 232 interface, auto range.		
266.	<u>Sound Calibrator</u> Lutron Taiwan with sound Pressure level 94 +/- 0.75 dB		
267.	<u>UV Light Meter:</u> Luton Taiwan. Long wave or short wave any one range.		


268.	Hand Tachometer: Digital Non Contact type Imported 5 to 99,999 RPM		
269.	Digital LUX:/ Light meter Lutron Taiwan make. 0-50000 LUX		
270.	Digital LUX:/ Light Meter Lutron Taiwan make range 0- 1,00,000 LUX with Data Hold.		
271.	Digital LUX:/ Light meter BIG LCD display, 5 digits, 0-4,00,000 LUX (5 range)		
272.	Hot wire thermal anemometer: LUTRON Taiwan. Range: - 0.2-20m/s, 07-22 km/hr, 0-50 deg. C & 32F to 122F, also ft/min, mile / hr, knots.		
273.	Assmann Physchrometer Hisamatsu: Made in Japan. Big		
274.	Digital Portable Leaf Area Meter: Model WDY-500A Range 500 cm2		
275.	<p>Portable Leaf Area Meter AM 300.</p> <p>Truly Field Portable: The ADC AM300 Portable Leaf Area Meter is a Compact friendly field portable instrument for the accurate non-destructive measurement of leaf area and associated parameters</p> <p>The AM300 consists of a high resolution scanner and scan board with integral data and image storage A multi- position carving handle is provided for ease of use and increased portability. Measurements of leaves can be made on the scan board plate or on independent plain surface</p> <p>The AM300 features the latest in high speed scanner sensor technology enabling measurements to be made faster and easier than ever. There is no need to precisely position leaves on the scan surface</p> <p>Utilising the latest in low power consumption electronics means that over 3000 measurements can be made between recharging the batteries</p> <p>AM300 Portable Leaf Area Meter with : carrying bag Battery Charger Computer interface Instrument manual Power requirements 110V/60Hz or 240V/50Hz.</p> <p>Measured Parameters Leaf area, length width, perimeter, Average area and accumulated area.</p> <p>Resolution 0.065mm².</p> <p>Accuracy Within +/-2%.</p> <p>Scanning Head LED Light source.</p> <p>Max. Measurement width 100mm (can be used on independent scan board for wider leaves).</p> <p>Display and Storage 64 x240 pixel graphic LCD.</p> <p>Internal Memory 256 bytes RAM,</p> <p>Memory Capacity 2000 data sets.</p> <p>Dimensions 275mm x 250mm x 30mm.</p> <p>Battery Nickel metal hydride 1.2Ah.</p> <p>Battery Charger Built in fast charger; can use Supplied Mains. adapter or 12V car Battery Indicators for charger status.</p> <p>Output RS232C with baud rates from 300 To 57600, / xoff or CTS handshake.</p> <p>Essential Accessories:</p> <p>a. Scan Board and scanner</p>		
276.	Digital Thermo anemometer: Lutron Taiwan make with metal vane and RS-232, Range 0.8-40 m/s, 2.8-2144 km/hr, 0-60 deg. C, or 32 F, combined Backlit LCD display.		
277.	Prismatic Binocular: China make 7x35 or 8x40 or 10 x 50 any one.		


278.(i).	Digital Humidity – Temp: Meter with K type temp probe range 5% - 95% RH & -20 to 1000 Deg. C, max/min reading, data hold, C & F combined, Backlit LCD display.		
(ii).	Stem thermometer (-50 deg. To 150 deg. C or F & resolution 0.1 deg.)		
(iii).	Temperature + Humidity + clock Digital Imported.		
(iv).	Digital Thermo Hygrograph SEKONIC Japan with 6 month re cording ST-50 range -20 to + 80 deg. C RH 0-100%		
(v).	Precision thermo Hygrograph ISUZU Japan THR – 1-2 with graph facility -15 to + 490 deg. c. RH 0-100%		
279.	Global Positioning System Garmin. USA Software & PC Cable		
	Model		
(i).	Etrex H		
(ii).	Etrex -10		
(iii).	Etrex-20		
(iv).	Etrex-30		
(v).	Etrex Vista H		
(vi).	Etrex Vista HCX		
(vii).	GPS-72 H		
(viii).	GPS MAP-78 S		
(ix).	OREGON 550		
280.	Pocket tester: HANNA Make Imported		
(i).	pH Tester 0-14 ph/0.2 ph pHep.		
(ii).	pH Tester 0.00-14.00 ph/0.2 ph Checker-1.		
(iii).	pH Tester 0.00 - 14.00 pH pH family		
(iv).	TDS Tester 10-1, 990 ppm DIST-1		
(v).	TDS Tester 10-1, 990 ppm DIST family		
281.	Digital SHORE ‘A’ Hardness tester: 4 digit/ 10 mm LCD display (test specimen min. 6 mm thick Range 10-90 H (to pressure the penetration hardness of rubber, plasters, neoprene, silicon, vinyl, soft plastic & leather)		
282.	Digital SHORE D hardness Tester: 4 digit/10mm LCD display (Test Specimen min 3mm thick, Range 10-90 h TO MEASURE THE PENETRATION HARDNESS OR PLASTICS, FORMICA, EPOXIES & PLEXIGLASS.		
283.	‘MSI’ Astronomical Telescope: Made in India very superior Quality.		
284.(i).	Sodium Vapor Lamp: OSRAM/ GE 35Watt. Imported.		
(ii).	-do- 55 Watt.		
285.(i).	UV Tube: Philips 1.5 ft. 15 watt with fitting.		
(ii).	-do- but 3 fit. 30 watt.		
286.	‘MSI’ Inoculation Loop holder: with Ebonite Handle & one loop.		
287.	TLC Plate: Merck German make pkt of 25 sheets.		
288.	Silicon Vacuum Grease: 50 gm Metroark.		





289.	<p><u>Cryogenic container INOX M for Storage:</u> Static evaporation loss rate 0.097 lit/day, Static hold time 211 days, Working time 132 days, over all diameter 380 mm, total, height-550mm, neck tube diameter-5mm, full wt. 28 kg, no of canisters, 6 pcs. Straw holding can single level 0.25 ml – 1560 pcs, 0.5 ml- 720 pcs, or straw holding cap. Double level 0.25 ml – 3120 pcs. 0.5 ml – 144 pcs.</p> <p>(i). IX-2 with canisters cap. 1.6 lit.</p> <p>(ii). IR-3 cap. 3.9 lit</p> <p>(iii). IR-7 cap. 7.8 lit.</p> <p>(iv). IR-10 cap. 10.5 lit</p> <p>(v). IX-20 cap. 20.5 lit</p> <p>(vi). IX-35 cap. 34 lit</p> <p>(vii). IX-47 cap. 47 lit</p> <p>(viii). IN-30 with side rings & Bottom pad 30 lit.</p> <p>(ix). IN-50 with side rings & Bottom pad 50 lit.</p> <p>(x). Liquid withdrawal device for IN-30/50</p> <p>(xi). Trolley for IN-30/IN-50</p> <p>(xii). Liquid level measuring scale.</p>		
290.a	<p><u>'MSI' Research Model UV Transilluminator :</u>View 20x20 cm, Basic system with 20x20 cm viewing area, fitted with Satebeam filter, High range (312 nm) UV source, 8x8 W tubes, air cooling fan and UV shield cum – Orange filter. Overall size: 41 x 32 x 13 cm, 7 kg, Power 220/230 AC mains T-20</p> <p>b. -do- -25cm x 13cm TCM-1</p>		
291.(i).	Digital pH Meter CL-54 (with pH Electrode CA-11)		
(ii).	Digital pH Meter CL-46 (with pH Electrode CA-11 & w/o ATC)		
(iii).	Digital pH Meter CL-46 (with pH Electrode CA-11 & with ATC)		
a.	<p>Refillable pH Combination Electrodes (Glass Body):</p> <p>pH Electrode CA-11 0-14 0-70</p>		
b.	<p>Gel-Filled pH Combination Electrodes (Glass Body)</p> <p>CAJ-11 0-14 0-100</p>		
c.	<p>Gel-Filled pH Combination Electrodes (Plastic/Epoxy Body)</p> <p>CAE (Epoxy Body) 0-14 0-70</p>		
292.(i).	<p><u>Eutech pH Meter:</u> Cyber Scan ph 2100 with glass pH electrode, DAS RS 232, ATC probe, integral electrode holder & universal power adapter. Code:- EC-PH2100</p>		
(ii).	EUTECH make cyber Scan pH 510 Meter with single junction pH electrode, ATC probe, Integral electrode holder & power adapters. Code EC PH-510		
(iii).	EUTECH make PH TUTORS W/O ATC probe.		
(iv).	-do- model PH TUTOR D		
(v).	-do- model PH TUTOR DS WITH COMBINED ELECTRODE OF PH AND TEMP.		
(vi).	ATC Probe with 1 mtr cable for above any. Tutor model.+ Hanna		
293.	<p><u>pH Benchtop Meter HI 2211.</u> benchtop pH and °C meter, adds measurement for ion concentration (ISE) and Oxidation Reduction Potential (ORP) in the mV range.</p> <p>These instruments also feature a reading stability indicator used during calibration and measurement memory /memory recall function.</p> <p>pH measurement for both instruments are compensated for the temperature effect manually or automatically with the HI7662 Temperature probe. These instruments are equipped with an easy-to-read LCD which shows both the primary reading and °C with features such as a built-in-beaker holder, beaker-top electrode holder and rugged, 2-in-1 pH and temperature sensor, the HI207 and HI208 are designed to meet busy environments.</p>		

	<p>These instruments also feature an extended pH rang, dual-level LCD with icon for stability and buffer recognition, built-in-magnetic stirrer (HI208 only) automatic pH calibration, and temperature display in either Celsius or Fahrenheit. In addition, all readings are automatically compensated for temperature variations. Switch to battery power and the instrument can be taken outside for field studies.</p> <p>HI2211 Parameter Specifications.</p> <p>ORP</p> <p>Range +399.9mV; +2000mV</p> <p>Resolution 0.1 mV; 1 mV</p> <p>Accuracy @ 20 °C +0.2 mV (+399.9 mV); +1 mV (+ 2000 mV)</p> <p>HI2211 Parameter Specifications.</p> <p>pH</p> <p>Range -2.00 to 16.00pH</p> <p>Resolution 0.01pH</p> <p>Accuracy @ 20 °C +0.01pH</p> <p>Calibration automatic one or two points with five memorized buffer values (pH 4.01,6.86,7.01,9.18,10.01)</p> <p>Electrode HI1131B Glass body pH electrode with BNC connector and 1m (3.3') cable (included)</p> <p>Temperature</p> <p>Range -20 to 120 °C</p> <p>Resolution 0.1 °C</p> <p>Accuracy @ 20 °C +0.4 °C (excluding probe error)</p> <p>Probe Hi7662 stainless steel temperature probe with 1m (3.3') cable (included)</p>		
294.(i).	<u>Auto Ranging Digital Conductivity</u> /TDS Meter TCM-15(w/o ATC & but with Cell)		
(ii).	Auto Ranging Digital Conductivity / TDS Meter TCM-15 with Cell)		
(iii).	Conductivity Cell		
295.	<p><u>EUTECH Table top Conductivity meter:</u> Cyber scan CON-510 Conductivity/TDS Meter with electrode, integral electrode holder & power adapter. Code ECCON510. ITL lit</p> <p>Cyberscan CON 510</p> <p>Conductivity/ Total Dissolved Solids / Temperature.</p> <p>The Cyber Scan CON 510 offers high precision and stability for years of reliable performance. With selectable cell constant and auto-ranging across 5 ranges, the CON 510 is an affordable bench meter that provides accurate, consistent measurement conductivity.</p> <ul style="list-style-type: none"> Adjustable TDS factor for more accurate results Quick, easy calibration with no mistakes – up to 5-point push calibration Single point or multi point calibration options Auto-ranging for fast response with high resolution Electrode comes with in-built ATC function, and is designed for minimal air bubble entrapment during measurement Non-volatile memory stores up to 50 data sets 		

298.	<p><u>Digital Electronic Balance Imported:</u> <u>Sartorius BS / BT Series Electronic Analytical Weighing Balance:</u> <u>Monolithic Weighing Technology Model: BT 224S</u></p> <p>Weighing Capacity : 220 gm Readability : 0.1 mg Pan Size : Ø 80 mm Repeatability : $\leq \pm 0.1$ mg Linearity : $\leq \pm 0.2$ mg Adaptation to Ambient conditions : By selection of 1 of 4 Optimized filter levels</p> <p>Other features / Equipment supplied:</p> <ul style="list-style-type: none"> ✓ Liquid crystal display. ✓ Glass draft Shield with three side opening. ✓ Auto inbuilt in motorized calibration. ✓ Built in spirit level adjustments. ✓ Specific gravity measure. ✓ Application programs. <ul style="list-style-type: none"> ▪ Counting. ▪ Wet in percentage. ▪ Net-total formulation. ▪ Animal Weighing. ✓ RS-232 data interface. ✓ Mass unit conversion by toggling between two weight units from a choice of twenty. ✓ Overload protection. ✓ ISO/GLP compliant printing capability. ✓ ISO 9001 certified. <p>Complete with operation manual</p>																																																										
299.	<p><u>'AFCOSET' Analytical Balance</u></p> <table border="0"> <thead> <tr> <th></th><th>Model:</th><th>Accuracy.</th><th>Capacity.</th></tr> </thead> <tbody> <tr> <td>(i).</td><td>ER-182A</td><td>0.01/0.1mg</td><td>32/180gm</td></tr> <tr> <td>(ii).</td><td>ER-200A</td><td>0.1mg</td><td>210gm</td></tr> <tr> <td>(iii).</td><td>ER-180A</td><td>0.1mg</td><td>180gm</td></tr> <tr> <td>(iv).</td><td>ER-120A</td><td>0.1mg</td><td>120gm</td></tr> </tbody> </table> <p>a. Optional RS-232C for ER-A Series. b. Density Kit for ER Series (for Solid & Liquid).</p>		Model:	Accuracy.	Capacity.	(i).	ER-182A	0.01/0.1mg	32/180gm	(ii).	ER-200A	0.1mg	210gm	(iii).	ER-180A	0.1mg	180gm	(iv).	ER-120A	0.1mg	120gm																																						
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	<p><u>Optional:</u></p> <p>a. Glass Breeze Break for FX-Series</p> <p>b. Additional Display for FX-Series</p> <p>c. RS-232C for FX Series</p> <p>d. Density Kit for FX Series (For Solid & Liquid)</p> <p><u>Calibration Mass:</u></p> <p>e. 200gm</p> <p>f. 1000gm.</p> <p>g. 2000gm</p>		
301.	<p><u>DIGITAL ELECTRONIC BALANCE GENERAL USE :</u></p> <p>(i). Digital Electronic Balance CITIZEN/Denwer/EQUVLANT make with built Battery. Cap. 300gm. Acc 0.01 gm and platter 110 mm dia.</p> <p>(ii). Digital Electronic Balance CITIZEN/Denwer/EQUVLANT make with built Battery. Cap. 600 gm. And acc 0.01 gm and platter dia 118 mm.</p>		
302.	<p><u>Digital Analytical Balance.</u></p> <p>Standard Features:</p> <ul style="list-style-type: none"> • Automatic External Calibration • Multifunction Weighing Units • A built in under hook for below weighing • Easy to read VFD Display • Density measurement for solid and liquid • Standard RS 232 C Interface • High Resolution, Quick Weighing, Accurate Result • Based on E.M.F.C. Technology • S.S. Weighing Pan, Level Indicator, Adjustable Fit • Tare range upto max. Capacity of the Balance 		
(i).	<p>Model DAB 220</p> <p>Capacity 210gm.</p> <p>Readability 0.1mg</p> <p>Repeatability 0.1mg</p> <p>Linearity+ 0.2mg</p> <p>Pan Size 90mmø</p> <p>Response Time 4-5 Sec</p> <p>Calibration Automatic External</p> <p>Tare Range Full</p> <p>Operating Temperature 15 °C to 35 °C</p> <p>Housing Dimension 195x275x406mm</p> <p>Weight Approx. 6.7kg</p> <p>Power Supply AC Adaptor 220V or 50-60 ZH</p>		
(ii).	<p>Model DAB 120</p> <p>Capacity 110gm.</p> <p>Readability 0.1mg</p> <p>Repeatability 0.1mg</p> <p>Linearity+ 0.2mg</p> <p>Pan Size 90mmø</p> <p>Response Time 4-5 Sec</p> <p>Calibration Automatic External</p> <p>Tare Range Full</p> <p>Operating Temperature 15 °C to 35 °C</p> <p>Housing Dimension 195x275x406mm</p> <p>Weight Approx. 6.7kg</p> <p>Power Supply AC Adaptor 220V or 50-60 ZH</p>		
303.	<p><u>Precision Balance.</u></p> <p>Standard Features:</p> <ul style="list-style-type: none"> • 200000 Internal Resolutions. • Auto Calibration with External Weight 		



	<ul style="list-style-type: none"> • Easy to read LED /LCD Display • Multifunction Weighing Units • Auto Zero tracking, Low Battery Indicator • In built rechargeable battery for continues use • Overload Protection Design • S.S. Weighing Pan, Level indicator, Adjustable Fit • High Resolution, Quick Weighing, Accurate Result. 																														
(i). (ii). (iii). (iv). (v). (vi).	<table> <tr> <th>Model</th><th>Capacity</th><th>Readability</th><th>Pan Size(mm)</th></tr> <tr> <td>PGB100</td><td>100gm</td><td>0.001gm</td><td>80 Ø</td></tr> <tr> <td>PGB200</td><td>200gm</td><td>0.001gm</td><td>80 Ø</td></tr> <tr> <td>PGB300</td><td>300gm</td><td>0.01gm</td><td>120 Ø</td></tr> <tr> <td>PGB600</td><td>600gm</td><td>0.01gm</td><td>120 Ø</td></tr> <tr> <td>PGB1000</td><td>1000gm</td><td>0.01gm</td><td>120x140</td></tr> <tr> <td>PGB3000</td><td>3000gm</td><td>0.1gm</td><td>120x140</td></tr> </table>	Model	Capacity	Readability	Pan Size(mm)	PGB100	100gm	0.001gm	80 Ø	PGB200	200gm	0.001gm	80 Ø	PGB300	300gm	0.01gm	120 Ø	PGB600	600gm	0.01gm	120 Ø	PGB1000	1000gm	0.01gm	120x140	PGB3000	3000gm	0.1gm	120x140		
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PGB1000	1000gm	0.01gm	120x140																												
PGB3000	3000gm	0.1gm	120x140																												
304.	<u>Table Top Balance.</u> Standard Features: <ul style="list-style-type: none"> • High Resolution upto 30,000 counts • Easy to read High bright red LED Display • Built-in rechargeable battery for continues use • Rust proof Stainless Steel Platter. • Fast Weighing response time • Overload Protection Design • Auto Power off, Low Battery Indicator. 																														
(i). (ii). (iii).	<table> <tr> <th>Model</th><th>Capacity</th><th>Readability</th><th>Pan/Platform</th></tr> <tr> <td>TTB 3</td><td>3kg</td><td>0.1gm</td><td>220x270mm</td></tr> <tr> <td>TTB 10</td><td>10kg</td><td>0.5gm</td><td>220x270mm</td></tr> <tr> <td>TTB 31</td><td>30kg</td><td>1gm</td><td>220x270mm</td></tr> </table>	Model	Capacity	Readability	Pan/Platform	TTB 3	3kg	0.1gm	220x270mm	TTB 10	10kg	0.5gm	220x270mm	TTB 31	30kg	1gm	220x270mm														
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305.	<u>Platform Balance.</u> Standard Features: <ul style="list-style-type: none"> • High resolution accurate result • Easy to read bright red LED display • Built in rechargeable battery for continues use • Rust Proof Stainless steel platter of High Quality • Fast Weighing response time • Overload Protection Design • Back Rail support provided 																														
(i). (ii). (iii).	<table> <tr> <th>Model</th><th>Capacity</th><th>Readability</th><th>Pan/Platform</th></tr> <tr> <td>PFB 60</td><td>60kg</td><td>5gm</td><td>400x400mm</td></tr> <tr> <td>PFB 150</td><td>150kg</td><td>10gm</td><td>600x600mm</td></tr> <tr> <td>PFB 300</td><td>300 kg</td><td>20gm</td><td>600x600mm</td></tr> </table>	Model	Capacity	Readability	Pan/Platform	PFB 60	60kg	5gm	400x400mm	PFB 150	150kg	10gm	600x600mm	PFB 300	300 kg	20gm	600x600mm														
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306.	<u>Personal Health Balance.</u> <table> <tr> <th>Model</th><th>Capacity</th><th>Readability</th><th>PanSize(mm)</th></tr> <tr> <td>PHB150</td><td>150kg</td><td>100gm</td><td>290x280x50</td></tr> </table>	Model	Capacity	Readability	PanSize(mm)	PHB150	150kg	100gm	290x280x50																						
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307. (i). (ii). (iii). (iv).	<u>'MSI' Polypropylene Animal Cages Twin Gril:</u> Available in two different sizes, these cages provides excellent shelter for different animal species in the laboratory. The metallic top provides proper ventilation and has provisions for feeding the species. (i). Size : 290 x 220 x140 mm. (ii). Size : 430 x 270 x150 mm. (iii). Water Bottle 125 ml. (iv). Water Bottle 250 ml.																														

308.	<u>'MSI' Auger :</u> a. Sampling Auger outfit blade type (Post hold type) Size diameter (i). 150mm (ii). 100mm (iii). 75mm (iv). 50mm b. Sampling Auger screw type Size diameter (v). 100mm (vi). 75mm (vii). 50mm (viii). 38mm (ix). Extension rod for above. Any 1 mtr long.		
309.	<u>'MSI' Poly Packing Machine: 10"</u>		
310.	<u>'MSI' Poly Packing Machine: 12"</u>		
311.	<u>'MSI' Poly Packing Machine:</u> with thermostat and safety device Foot operated 12"		
312.	<u>'MSI' Poly Packing:</u> Machine Table model with Vacuum Packager , Packing speed : 2-3 pouch/min.		
313.	<u>'MSI' Slide Cabinet with racks.</u> (i). Micro slide cabinet for storing 3"x1" slides in vertical position one after the other in a closed pack manner. Made of steel duly painted. Each drawer moves in a slot and is removable for easy lifting. Complete with lock & key. Capacity :- 5000 slides Price:- 16000.00 (ii). Micro slide cabinet Horizontal Manner: Made of wooden 3:x1" slides are stored in a horizontal manner. Drawer fitted with handle. Lock & key. Capacity :- 1000 slides 2000 slides Price :- 4000.00 8000.00 (iii). Micro Slide cabinet flat manner. Mad of ms sheet duly painted 3: x 1" slides stored in a flat position. The trays are deep enough to hold two slides one on the other. Thus doubling the cap. If required. For reconditioning of the slides trays can be placed in the incubator as well. Fitted with handle, lock & key. Capacity:- 500 slides 1000 slides 2000 slides Price:- 6000.00 9000.00 15000.00	 10000 slides 35000.00 5000 slides 18500.00 5000 slides 38000.00	
314.(i).	<u>'MSI' Rotary Vacuum Evaporator (Buchi type) :-</u> Borosilicate glass : Comprising of AC none sparking geared drive unit, support stand fitted with jack arrangement on s. s. rod, continuously variable speed regulator, thermostatically controlled water bath, double coil glass condenser, pear shaped evaporating flask cap 800 ml, 100 ml, receiving flask with ball joints, feeding tube and vapor path tube, with Teflon/rubber seals for maintaining complete vacuum.		
(ii).	-do- same as above but with Digital water Bath. Note: Vacuum Pump is no Included in the above cost. Please see item no. of the list.		



315.	<p>Yamato Scientific Co. Ltd. is the Japan based company dealing in Evaporating system since 1889 having system of scientific laboratory equipment.</p> <p><u>ROTARY EVAPORATORS HAVING ERGONOMICS DESIGN FOR BEST RESULTS.</u></p> <p>Advantages for Yamato Rotary Evaporators are.</p> <ul style="list-style-type: none"> • Space saving design- compact type, can be neatly installed in a fume hood. Despite its depth of 400mm. vertical condenser does not take up space • All the models are easily raised or lowered by simple operation of switch=Auto Life • The rotary joint's locking position feature is adjustable within 80mm, especially useful when using varying capacity evaporating flask. • Evaporating flask can be released easily and quickly by just turning the flask release nut. • Vertical condenser function to prevent • liquid from stagnating. New condenser tube designed to increase rapidity of cooling capacity • The fluoro- rubber vacuum seal with its multistage configuration is designed to maintain the stability of reduced pressures. • One touch operation of storing & read out of operating conditions. • Motor overload protection. • The evaporator can detect any malfunctions in the driving mechanism in the rotary section and the lifting device for higher end models. 		
(i).	<p>RE300: New revised Basic model for evaporator system with speed (RPM) display. Its is an in-expensive model with different options.</p> <p><u>Specification:</u></p> <ul style="list-style-type: none"> • Standard Diagonal/vertical Glassware condenser made up of glass with double Spiral for efficient cooling. • D.C brushless Motor for Rotation and D.C Motor for Lifting • Motor Rotation Speed from 10-250rpm. • Control Knob for Speed Setting with Digital rpm Display. • Motorized lifting system. • Manual lift case of power failure. • Motor overload protection. • Safety measures for manual- setting lower limit and upper limit. • Weight 13kg approx (excluding glassware+ oil bath). Power Supply 100-240V AC, 1.5Amp (excluding the water/oil bath). • Vacuum regulator or vapor temp. indicator available as an optional accessories. 		
(ii).	RE300A0 , Yamato Rotary Evaporator with Horizontal glassware, motorized lifting system oil bath, Rec. & Evap. Flask capacity of 1Ltr.		
(iii).	RE300B0 , Yamato Rotary Evaporator with Vertical glassware, motorized lifting system, oil bath, Rec. & Evap. Flask Capacity of 1Ltr.		
316.	<p>RE600: Model includes vacuum regulator VR600, vapor temp. TA300 indicator and in addition to speed (RPM) display.</p> <p><u>Specification:</u></p> <ul style="list-style-type: none"> • Motor rotation speed from 10 to 250epm. • Setting range of vacuum 0-981hPa. • Memory of 10 programs/operation mode • Equipped with several Operating modes, such as, preset mode, timer mode, progressive mode and customer programmed mode. • Motorized lifting system. • Manual lift in case of power failure. • Digital display includes rotation speed, vapor temp. & baht temp. 		



	<ul style="list-style-type: none"> Voltage sensing power supply. 																																										
(i).	RE600A0 , Yamato Rotary Evaporator with Horizontal glassware, motorized lifting system, Vacuum Regulator VR600 , Vapor temp. indicator TA300 , oil bath, Rec. & Evap. Flask capacity of 1Ltr.																																										
(ii).	RE600B0 , Yamato Rotary Evaporator with Vertical glassware, motorized lifting system, Vacuum Regulator VR600 , Vapor temp. indicator																																										
a.	Essential Accessories: TA300 , oil bath with capacity of Rec. & Evap. Flask capacity=1Ltr.																																										
317.	RE800: Advance model with Vacuum Regulator VR800 , and Vapor Temp. Indicator TA300 , Specification: <ul style="list-style-type: none"> Basic function same as RE300. Motor rotation speed from 10 to 250rpm. Automatic distillation. Continuous Bath control. Data on 53 solvent installed as default. Motorized lifting system synchronized with control. Manual lift in case of power failure. 																																										
(i).	RE800A0 , Yamato Rotary Evaporator with Horizontal glassware, motorized lifting system Synchronized with control, Oil Bath, Vacuum Regulator VA800 , Vapor temp. indicator TA300 , Rec. & Evap. Flask capacity of 1Ltr.																																										
(ii).	RE800B0 , Yamato Rotary Evaporator with Vertical Glassware, motorized lifting system Synchronized with control, Oil bath Vacuum Regulator VR800 , Vapor temp. indicator TA300 , Rec. & Evap. Flask capacity of 1Ltr.																																										
318.	Air Sampler for Microbiological: testing for aseptic conditions.																																										
(i).	Polltech make High Volume Sampler Model PEM-HVF 10 for Respirable Particulate matter (particle size < 10 micron) complete with microprocessor based Constant Flow controller, electronic Timer cum time Totalizer, Blower Motor, Voltage, Stabilizer, Cabinet Gaseous Sampling and with size selective inlet for removing particles > 10 micron.																																										
(ii).	Gable Roof for measurement of SPM by replacing size selective inlet																																										
(iii).	Polltech Make High Volume Sampler with Brushless AC Blower, Model PEM-HVS 10 for Respirable Particles (Particles less than 10 micron) complete with size selective Inlet, for particles less than 10 micron, filter holder, cabinet, gaseous sampling arrangement. Automatic electronic Timer 7 time Totalier.																																										
(iv).	Politic make High Volume Sampler, Model PEM-HVF-310, with Brushless AC Blower for Respirable Particle Matter (Particle size < 10 micron complete with filter holder, cabinet, gaseous sampling arrangement along with microprocessor based Electronic Unit (Include STP corrected On line flow rate, Volume of Sampled Air & Time of Sampling) Size selective Inlet.																																										
(v).	Polltech make Handy Air Sampler Model PEM-HASI (B) (Battery Operated) for Gaseous Sampling complete with a built in Sampling Pump, Flow Measuring Rota meter, Electronic Timer cum Time Totalizer and two impingers in a single compact s. s. housing.																																										
319.	Filter Paper Ordinary: <table> <thead> <tr> <th>Particulars</th><th>Size</th><th>Packing</th><th>Kalpi No. 1</th></tr> </thead> <tbody> <tr> <td>a. Filter Paper Sheets</td><td>46x57 cm</td><td>Ream 500 sheet</td><td>1200.00</td></tr> <tr> <td>b. Filter Paper Sheets</td><td>45x45 cm</td><td>"</td><td>1000.00</td></tr> <tr> <td>c. Filter Paper circles</td><td>18.5 cm</td><td>Pkt 100 Circles</td><td>50.00</td></tr> <tr> <td>d. Filter Paper circles</td><td>15 cm dia</td><td>"</td><td>50.00</td></tr> <tr> <td>e. Filter Paper circles</td><td>12.5 cm dia</td><td>"</td><td>40.00</td></tr> <tr> <td>f. Filter Paper circles</td><td>11 cm dia.</td><td>"</td><td>35.00</td></tr> <tr> <td>g. Blotting Paper white</td><td>46x57 cm</td><td>Ream 500 Sheet</td><td>1550.00</td></tr> <tr> <td>h. Blotting Paper pink</td><td>46x57 cm</td><td>"</td><td>1250.00</td></tr> <tr> <td>i. Butter Paper sheet</td><td>46x57 cm</td><td>100 sheets</td><td></td></tr> </tbody> </table>	Particulars	Size	Packing	Kalpi No. 1	a. Filter Paper Sheets	46x57 cm	Ream 500 sheet	1200.00	b. Filter Paper Sheets	45x45 cm	"	1000.00	c. Filter Paper circles	18.5 cm	Pkt 100 Circles	50.00	d. Filter Paper circles	15 cm dia	"	50.00	e. Filter Paper circles	12.5 cm dia	"	40.00	f. Filter Paper circles	11 cm dia.	"	35.00	g. Blotting Paper white	46x57 cm	Ream 500 Sheet	1550.00	h. Blotting Paper pink	46x57 cm	"	1250.00	i. Butter Paper sheet	46x57 cm	100 sheets			
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320.	Automizer Sprayer: Plastic Bottle with sprayer.																																										
321.	'MSI' Humidistate: to control the humidity in any chamber specially Green house etc.																																										

322.	<u>Digital Glucometer:</u> Gluco strip for above																																						
323.	<p><u>Perimeter:</u></p> <p>(i). Perimeter Priestley Smith Model: The perimeter is an instrument for accurate charting of the field vision. It consists of A vertical stand on which a metallic arc is pivoted. It also bear a circular black disc to read the meridian in which is a white color spot of size 10mm diameter painted on a circular disc it can be moved with arc. An adjustable chin rest and a detachable leveling bar is fixed in front of the metallic arc. A scale and circular chart frame to hold the chart paper in position is provided at the back of the circular disc. A metallic graduated scale with a movable Pin-Punch pointer fixed to mark on the perimeter chart paper Supplied with 100 charts.</p> <p>(ii). Perimeter (Lister type): Automatically record field to 90 deg. In all meridian. The carrier mechanism is smooth, silent and invisible. The patient perceives only the test object to move. Spring check, giving an audible click to each 15 deg. Of rotation of the arc in either direction renders close security of dial plate unnecessary and ensures accurate registration. The device can be thrown out of action if silent movement is desired. The marker and needle is housed in a retractable tube, sprung to sheath the point when not actually marking. A set of interchangeable and permanent washable test objects is included with the instrument. The objects subtend angles of 4 deg. 2 deg. 1 deg. ½ deg. ¼ deg. And are in light green and red blue objects in the last three sizes are also included. Supplies complete with Transformer to work on 220 V AC mains with 100 charts.</p> <p><u>Optional Accessories:</u></p> <p>a. Charts for above. Pkt of 100</p>																																						
324.	<p><u>Hemilton Syringe:</u> Fixed Needle syringes, Point Style 21. (Needle Length-51 mm)</p> <table border="1"> <thead> <tr> <th>Part No.</th> <th>Model</th> <th>Volume</th> <th>Gauge</th> </tr> </thead> <tbody> <tr> <td>(i). 87900</td> <td>75N*</td> <td>5 uL</td> <td>26s</td> </tr> <tr> <td>(ii). 80300</td> <td>701N*</td> <td>10 uL</td> <td>26s</td> </tr> <tr> <td>(iii). 80400</td> <td>702N</td> <td>25 uL</td> <td>22s</td> </tr> <tr> <td>(iv). 80500</td> <td>705N</td> <td>50 uL</td> <td>22s</td> </tr> <tr> <td>(v). 80600</td> <td>710N</td> <td>100 uL</td> <td>22s</td> </tr> <tr> <td>(vi). 80700</td> <td>725N</td> <td>250 uL</td> <td>22s</td> </tr> <tr> <td>(vii). 80800</td> <td>750N*</td> <td>500 uL</td> <td>22s</td> </tr> <tr> <td>(viii). 80366</td> <td>701 N (Six Pack)</td> <td>10 uL</td> <td>26s</td> </tr> </tbody> </table>	Part No.	Model	Volume	Gauge	(i). 87900	75N*	5 uL	26s	(ii). 80300	701N*	10 uL	26s	(iii). 80400	702N	25 uL	22s	(iv). 80500	705N	50 uL	22s	(v). 80600	710N	100 uL	22s	(vi). 80700	725N	250 uL	22s	(vii). 80800	750N*	500 uL	22s	(viii). 80366	701 N (Six Pack)	10 uL	26s		
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325.	<p><u>PENTA OPTO-550 MULTI VIEWING MICROSCOPE (INFINITY CORRECTED SUPER PLAN OPTICS ULTRA WIDE FIELD EYEPIECE F.NO. 22):</u> <u>TECHNICAL FEATURES.</u></p> <p>Optical System : Infinity corrected plan optical system with DIN Standard optics (TRUE COLOUR)</p> <p>Observation : One number high Transmission sided top Trinocular head 30° inclined. Compensation free, 360° rotatable. Four numbers compensations free Binocular Head inclined 30° and 360° rotatable.</p> <p>Nosepiece: reverse mounted quintuple nosepiece with ball bearing system for perfect alignment.</p> <p>Light Pointer: A MOVEABLE BUILT IN GREEN LED POINTER (BRIGHTNESS ADJUSTABLE) IS SUPPLIED AS A STANDARD ACCESSORY.</p> <p>Plan Objective: INFINITY CORRECTED SUPER PLAN OBJECTIVES PL∞ 10X, PL ∞ 40X, PL ∞ 100 X, (Anti Fungus)</p> <p>Focusing: Low and forward position Co-axial coarse and fine focusing mechanism Supported on ball bearing with tension control ring and pro-focus stopper.Coarse focus 30 mm. Fine motion reading to 0.002 mm.</p> <p>Eyepiece: Ultra wide field and compensating WF 10X paired eyepiece (Field no. 22) Spairs.</p>																																						

	<p>Optional: Automatic Photography and video equipments, Computer compatible.</p> <p>Stage: SUPER HARD COATED LARGE MECHANICAL STAGE 185X145mm with low position co-axial X-Y motion 75mmx 55mm.</p> <p>Illumination: Koehler's illumination with 12V/50W (CE approved) super bright halogen lamp with variable control.</p> <p>Condenser: Swing out condenser N.A.0.9.25, to provide perfect illumination under all magnification to all the observers.</p>		
	<p>“PENTA OPTO-550” MULTIVIEWING MICROSCOPE: – Incorporates in innovative optical and structural design idea, facilitating group discussions and consultations by five observers during important meetings, conferences and seminar. Penta Optoa-550, is equipped with five observation head, inclined at 30° for comfortable viewing, including the central Trinocular Head to accept optional Photomicrography and Video Equipments. The built in LED Green Light Pointer, with adjustable brightness can be moved in the field of view during group discussion. Supplied as above with following Eyepiece-WF 10x/22 (5 pairs) L. Plan Objective (Infinity corrected) PLα, 4X, PLα, 10X, PL α, 40X PL α, 100X. Complete as above CODE : MPT-5505</p>		
326.	<p>‘MSI’ TISSUE PROCESSOR UNIT (MANUAL): Having a steel basket, a rotor and 12 tissue container, complete with thermostatically controlled wax bath and 2 one liter beakers with cover.</p>		
327.	<p>‘MSI’ “HISTOKINETTE” (AUTOMATIC TISSUE PROCESSOR): Equipped with latest micro switch mechanism for trouble free performance and convenience in use. Supplied with one stainless steel basket rotor, one stainless steel basket, 24 Tissue Capsules, 10 one liter Beakers, 2 Nos. Thermostatically controlled wax bath, 6 Nos. Calibrated Timer Disc & one Cutting Plier, Dust Cover & Instruction Manual etc.</p>		
328.	<p>‘MSI’ “HISTOKINETTE” AUTOMATIC TISSUE PROCESSOR: With Safety Device. All specifications as per Model SP-30, but supplied with latest built in safety device to protect tissues from 10th stage and 11th to 12th stage that in wax during electric failure. Supplied with one stainless steel basket rotor, one stainless steel basket, 24 Tissue Capsules, 10 One Liter Beakers, 2 Nos Thermostatically controlled wax bath, 6 Nos Calibrated Timer Disc & One Cutting Plier.</p>		
329.	<p>‘MSI’ “HISTOKINETTE” AUTOMATIC TISSUE PROCESS (LATEST MODEL): Super Deluxe with Two Basket Rotor, built in safety device and the equipment is supplied with 2 S.S. Basket Rotors, 2 S.S. Baskets, 24 Tissue Capsules, 10 One Litre Glass Beakers without lip, 2 Nos Thermostatically Controlled Wax Bath, Nos. of 24 hr. calibrated metallic timer disc and one cutting plier, dust cover & Instruction Manual etc.</p>		
330.	<p>‘MSI’ AUTOMATIC TISSUE PROCESSOR (LATEST MODEL): Super Deluxe. Same as above but supplied with 2 litre capacity.</p>		
331.	<p>‘MSI’ MICROPROCESSOR BASED AUTOMATIC TISSUE PROCESSOR : OPERATED BY FEATURE TOUCH KEY BOARD: digital display for adjusting the timer sequence, temperature setting and safety system fitted with battery back up to retain data, the 12 stage timing sequence can be programmed with each step of 1 minute to 6 hours 30 minutes and delay action from 1 hour to 99 hours. If the temperature is not between 50°C to 65°C and safety system stops the main unit to shift from 10th to 11th to 12th position till the sequence temperature is attained. Suitable to work on 220V, single phase, 50 Hz AC Supply.</p>		
332.	<p>“MSI” TISSUE PROCESSOR WITH TWO LITRE BEAKER: Same as above but with 2 litre beakers.</p>		



333.	<p><u>ACCESSORIES FOR TISSUE PROCESSORS.</u></p> <p>(i). ‘MSI’ BASKET ROTOR: Fitted with best quality motor for show turning of specimen basket.</p> <p>(ii). ‘MSI’ WAX BATH (THERMOSTATICALLY CONTROLLED): A sturdy unit equipped with highly sensitive thermostat to ensure highest temperature accuracy. One litre capacity</p> <p>(iii). ‘MSI’ WAX BATH: Same as above but with 2 litre capacity.</p> <p>(iv). ‘MSI’ TISSUE BASKET : A Stainless Steel basket for holding tissue s. s. containers/capsules</p> <p>(v). ‘MSI’ TISSUE CONTAINER: 36 mm Dia made from stainless steel perforated with spring clips for convenient fitting (Set of six)</p> <p>(vi). ‘MSI’ TIMING DISC : Finely calibrated for 24 Hrs.</p> <p>(vii). ‘MSI’ GLASS BEAKER: 1 Liter.</p> <p>(viii). ‘MSI’ GLASS BEAKER/PLASTIC BEAKER: 2 Liters.</p> <p>(ix). ‘MSI’ STAINLESS STEEL BEAKER: 1 Liter.</p>		
334.	<p><u>‘MSI’ AUTOMATIC SLIDE STAINING MACHINE (12 STATIONS) :</u> A SIMPLE, STUDY AND ECONOMIC MODEL OF Automatic Slide Staining Machine with 12 stations, recommended for hematology as also for staining of blood films and bone marrow spread etc. Supplied with 12 twelve staining troughs (one having inlet/outlet) one slide carrier, six one hour calibrated timing discs and the plier of programming timing disc etc. and a dust cover.</p> <p>a. AS one unit utilizing all the 23 staining positions in series.</p> <p>b. As two independent staining machines working at the same time and programmed separately (independent grouping).</p> <p>c. As two staining machines operating simultaneously at the same time staining cycle (parallel grouping).</p> <p>SUPPLIED WITH.</p> <p>(i). Staining Troughs – 23 Nos., II. Slide Carriers-2, III. Calibrated Timing Disc 1 Hr. 6 Nos., iv. Calibrated Timing Disc ½ Hr. 6 Nos.</p> <p>Complete as above with one plier for programming and dust cover etc.</p>		
335.	<p><u>MICROPROCESSOR BASED ELECT-23 SLIDE STAINING MACHINE</u> : Elect Slide Staining Machine is same as SS-23, but, the instrument is operated by feather touch and keyboard with digital display for adjusting the time sequence to use the machine in the following style :-</p> <p>a. As one unit utilizing all the 23 staining positions in series.</p> <p>b. As two independent staining machines working at the same time and programmed separately (independent grouping).</p> <p>c. As two staining machines operating, simultaneously at the same time staining cycle (parallel grouping).</p> <p>SUPPLIED WITH.</p> <p>(i). Staining Troughs-23 Nos., II. Slide Carriers-2 Nos., III. Calibrated Timing Disc 1 Hr. 6 Nos., IV. Calibrated Timing Disc ½ Hr. 6 Nos.</p> <p>Complete as above with one plier for programming and dust cover etc.</p>		
	<p>ACCESSORIES FOR “MSI” SLIDE STAINING MACHINES</p> <p>SS-25 (A) “MSI” STAINLESS STEEL SLIDE CARRIER 3”x1”</p> <p>SS-25 (B) “MSI” CALIBRATED TIMING DISC for 1 hour</p> <p>SS-25 (C) “MSI” CALIBRATED TIMING DISC for ½ hour</p> <p>SS-25 (D) “MSI” STANDARD STAINING TROUGH</p> <p>SS-25 (E) “MSI” STAINLESS TROUGH WITH INLET/OUTLET</p>		

336.	<p><u>Shimadzu UV VIS spectrophotometer:</u> Model UV-1800 Microprocessor based with high resolution LCD display. Wavelength range 100 nm to 1100nm.</p> <p>Essential accessories for the smooth operation of the equipment.</p> <p>(i). Stand alone operation with complete control through PC with UV Probe PC software for the above. With built in validation program, diagnostic and security functions.</p> <p>(ii). Multi cell sample compartment-hold upto 6-10 mm square cells on the sample side & one reference side. No temperature control capability</p> <p>(iii). 8/16 series micro multi cell holder MMC-1600-hold one micro multi cell either 8 or 16, for micro volume measurement.</p> <p>(iv). Pair of quartz cuvettes 10 mm path length, 3ml cap. Imported.</p> <p>(v). PC/Laptop for the above.</p> <p>(vi). UPS for above.</p>	 <p>UV-1800 UV-VIS Spectrophotometer</p>	
337.	<p><u>Shimadzu single beam UV VIS Spectrophotometer:</u> Model UV mini 1240. Wavelength range 190-1100nm spectral bandwidth 5nm, 6inch LCD display with CFD lighting.</p> <p>Essential accessories for the smooth operation of the equipment.</p> <p>(i). Software with Photometric, spectrum & Quantization modes.</p> <p>(ii). Pair of quartz Cuvette 10mm path length, 3 ml cap. Imported.</p> <p>(iii). PC/Laptop for the above.</p> <p>(iv). UPS for above.</p>		
338.	<p><u>Thermo Fisher (thermo Spectronic) UV VIS spectrophotometer:</u> Model Genesys-10 UV Split beam, grating based, dual detector UV VIS spectrophotometer, wave length 190/110 nm bandwidth 5nm, 320x240 pixel backlit LCD display.</p> <p>Essential accessories for the smooth operation of the equipment.</p> <p>(i). 6 position cell holder for above.</p> <p>(ii). Software cum bi directional RS 232 interface.</p> <p>(iii). Pair of quartz cuvettes 10 mm path length, 3ml cap. Imported.</p> <p>(iv). PC/Laptop for the above.</p> <p>(v). UPS for above.</p>		
339.	<p><u>Thermo Fisher (thermo Spectronic) VIS spectrophotometer:</u> Model Genesys-10 VIS Split beam, grating based, dual detector VIS spectrophotometer, wave length 325-110 nm bandwidth 5nm, 320x240 pixel backlit LCD display.</p> <p>Essential accessories for the smooth operation of the equipment.</p> <p>(i). 6 position cell holder for above.</p> <p>(ii). Software cum bi directional RS 232 interface.</p> <p>(iii). Pair of quartz cuvettes 10 mm path length, 3ml cap. Imported.</p> <p>(iv). PC/Laptop for the above.</p> <p>(v). UPS for above.</p>		
340.	<p><u>Thermo Fisher (thermo Spectronic) Single Beam VIS Spectrophotometer:</u> Model Spectronic 200D+ wavelength range 340-1000 nm, Spectral band width <math>\pm 2.5\text{nm}</math> accuracy near 525 nm LCD display.</p>		
341.	<p><u>Lovibond Tintometer:</u> Model F Livibond RYBN Color scales. Visual Colorimeter for fuel oils & lubricants, white oils & waxes, petrochemicals & transparent liquids each.</p>		
342.	<p><u>Lovibond comparator 2000+</u></p> <p>a. Dolor disc for above Indian.</p> <p>b. Color disc for above Lovibond Imported. Group A.</p> <p>c. -do- but Group B</p> <p>d. -do- but Group C</p>		



343.	Automatic Steam Generator/Baby Boiler: capable of generating Saturated dry steam vertical immersion electrode type. Working pressure 100 psi, thermal efficiently 98% +/- 2%. Output 20 kg/hr steam at 100 deg. C.					
a.	-do-	but output cap. 25 lit/hr.				
b.	-so-	but output cap. 50 lit/hr.				
344.	Microwave: Oven. LG, Samsung & Equivalent 28 lit					
a.	-do-	LG, Samsung & Equivalent 32 lit				
b.	-do-	LG, Samsung & Equivalent 38 lit.				
345. a.	Refrigerator: LG, Samsung & Equivalent 190 lit. approx					
b.	-do-	but LG, Samsung & Equivalent 270 lit. approx				
c.	-do-	but LG, Samsung & Equivalent 285 lit. approx Double door				
d.	-do-	but LG, Samsung & Equivalent cap. 350 lit. approx DD				
e.	-do-	but LG, Samsung & Equivalent cap. 350 lit. approx DD				
f.	Water Coolers Voltas/equivalent 60/120 aprox					
g.	Water Coolers Voltas/Equivalent 150/150 aprox					
h.	Voltage stabilizer for above 1 KVA. Servokon make					
346.	Vacuum Cleaners:					
a.	Vacuum cleaners Euraka forbes make. Euroclean ACE.					
b.	Vacuum cleaner eureka forbes make Euroclean W/D Wet Dry					
347.	Exhaust Fans:					
a.	Khaitan 18“ ECR 1400 RPM.					
b.	Khaitan 15”					
c.	Crompton 18”					
d.	Crompton 24“					
348.	Stabilizer: Automatic Voltage Stabilizer ‘SERVOKON make output 220 V +/- 9% Input voltage 140 to 270 V.					
	Cap:	0.5 KVA	1.0 KVA	2 KVA	5 KVA	
	Price:	2300.00	3560.00	5740.00	9560.00	7.5KVA 14088.0
349.	Servo Voltage Stabilizers single Phase SERVOKON make. Air cooled Input voltage 140 to 280 V Output 220 V.					
	Cap.	In 3KVA	5 KVA	7.5 KVA	10 KVA	
		22700.00	34000.00	40500.00	55100.00	
350.a.	Digital Camera SLR Cannon make: 12.2 mega pixel CMOS Sensor, Live view shooting mode, High precision 9 point of system.					
b.	Digital Camera Canon or equivalent model 18 mega pixel CMOS Sensor, Live view shooting mode, High precision 9 point of system.					
c.	Digital Camera Canon or equivalent model is with 12.1 megapixels, enlarge posters upto A2 size, 12x zoom at 28 mm wide angle, & optical image stabilizer.					
351.	CCD Camera for Microscopy:					
a.	Magnus Color Imaging (CCTV) System Model CIS:- 300 consisting of a high resolution light weight 1/3” CCD camera (Sony or equivalent) for excellent image contrast, and an optically corrected Magnus C Mount microscope adapter, can be fitted on to any Trinocular Microscope.					
b.	Magnus Color Imaging (CCTV) System Model CIS:- 400 – C consisting of a high resolution light weight 1/3” CCD camera (Sony or equivalent for excellent image contrast, and an optically corrected Magnus C mount microscope adapter and with an image capture PC Card.					

c.	<u>Magnus Color Imaging CCTV System Model CIS:</u> – 200 – C consisting of a high resolution light weight ½ ” CCD camera (Samsung or equivalent) for excellent image contrast, and an optically corrected Magnus C-Mount microscope adapter and with high resolution image capture PC Card.		
d.	<u>Magnus Pro Image Analysis software for arranging and measuring Captured images, creating data based and preparing reports:</u>		
352.	Magnus Microscope Image Projection System Model MIPS consisting of Light weight compact imaging sensor within built wide field optical microscope adapter & direct connectivity to TV (Plug – n-play design) can be fitted in any Binocular Trinocular Microscope (TV optional)		
a.	Magnus Microscope Image Projection System Model MIPS-USB consisting of light weight compact imaging sensor within built wide field optical microscope adapter & with in built USB connectivity (without any power supply, plug-n-play design) can be fitted in any Binocular/Trinocular microscope (suitable for NT based OS).		
b.	<u>Magnus Digital Microphotography System:</u> consisting of: Olympus Interchangeable Lens Type Live View Digital Camera (above 12 mega pixels) along with one lens, rechargeable battery, charger, USB cable & Magnus carry bag, compatible 4GB memory card & Magnus optically corrected microscope adapter. The price includes the designing & optical alignment cost. Note: Presently, the camera model E-PL1 is being supplied. In case if it is discontinued, the camera available (of equivalent specifications) at time of supply will be Supplied.		
353.	DIGITAL CAMERA ACCESSORIES. (i). Tripod stand for Digital cameras. (ii). Chargeable Cell (2NO) (iii). Charger. For cell. (iv). 4 GB Data Card. (v). 8 GB Data Card. (vi). Printer for photo print (vii). Cartage for above printer		
354.	DIGITAL SLR CAMERA ACCESSORIES (LENS) (viii). EF S 18-200 MM IS F 3.5-5.6 (ix). EF 28-105 MM USM F 4-5.6 (x). EF 28-105 MM USM II F 3.5-4.5. (xi). EF 28-135 MM USM F/3.5-5.6 (xii). EF 28-200 MM IS USM F/4-5.6 (xiii). EF 28-200 MM IS USM F/4-5.6		
355.	<u>Handy cam</u> a. Sony or Equivalent make Flash memory Model with 8 GB card + carry case b. Sony or Equivalent make HDV (High speed) 16 GB internal memory with 16 GB Memory card & carry case.		
356.	Magnetized Pipette Storage Rack: ABS Plastic construction is scratch resistant and easily cleaned. Each rack includes two accessory attachment to hold pipette filler and pipette bulb. Racks hold 1 ml to 25 ml pipette in Bulk in packs or in common sizes of cans They feature 4 angled compartments for easy loading and retrieval. Unique “windows” allow viewing of enclosed pipette to determine supply level.		

357.	<p>Fixed Volume Pipette:</p> <ul style="list-style-type: none"> • Rugged construction • Extremely smooth piston movement • Autoclavable Top Ejector & Tip Holder • Easy to maintain • Individual factory calibration certificate each <p>Capacity ul</p> <p>(i). 2ul (ii). 5ul (iii). 10ul (iv). 20ul (v). 25ul (vi). 50ul (vii). 100ul (viii). 200ul (ix). 250ul (x). 300ul (xi). 400ul (xii). 500ul (xiii). 1000ul</p>		
358.	<p>Variable Volume Pipette:</p> <ul style="list-style-type: none"> • Rugged construction • Extremely smooth Piston movement • Autoclavable Tip Ejector & Tip Holder • Easy to maintain • Individual factory calibration certificate with each Variable Vol. <p>Capacity ul</p> <p>(i). 0.5-2ul (ii). 1-10ul (iii). 2-20ul (iv). 10-100ul (v). 20-200ul (vi). 100-1000ul (vii). 1000-5000ul (viii). 1000-10000ul</p>		
359.	<p><u>OPTIONALS BUT NECESSARY FOR THE ABOVE</u></p> <p>(i). Tips for above Cap 0.2-10 ul.</p> <p>(ii). Cap 2-200 ul.</p> <p>(iii). Cap. 200-1000 ul.</p>		
360.	<p>Simplex Bottle Top Dispenser: These autoclavable Bottle Top dispensers are used for taking accurate aliquots of liquid from a large bottle. These are very useful and important when handling aggressive liquids such as solvents ensuring safety and avoiding wastage.</p> <p>The recirculating valve in GENIVS Dispenser allows recirculating during Priming to avoid risk of splashes caused by air bubbles during priming and also avoids reagent waste. Valve control knobs indicates the valve positing. These dispenser comes with 3 thread adaptors and telescopic intake tubes.</p> <p>Capacity ml</p> <p>(i). 0.25-2.5ml (ii). 0.5-5ml (iii). 1-10ml (iv). 2.5-25ml (v). 5-50ml (vi). 20-100ml</p>		

361.	<p>Genius Bottle Top Dispenser: These autoclavable Bottle Top dispensers are used for taking accurate aliquots of liquid from a large bottle. These are very useful and important when handling aggressive liquids such as solvents ensuring safety and avoiding wastage.</p> <p>The recirculating valve in GENIVS Dispenser allows recirculating during Priming to avoid risk of splashes caused by air bubbles during priming and also avoids reagent waste. Valve control knobs indicate the valve positioning. These dispensers come with 3 thread adaptors and telescopic intake tubes.</p> <p>Capacity ml</p> <p>(i). 0.25-2.5ml (ii). 0.5-5ml (iii). 1-10ml (iv). 2.5-25ml (v). 5-50ml (vi). 20-100ml</p>		
362.	<p>Pipette controller: Powerful yet quiet pump, soft grip push buttons, double safety valve, Autoclavable pipette cone.</p> <p>Can fill 25ml pipette under 4 seconds.</p> <p>Safety valve and hydrophobic filters provide double protection against fluid penetration.</p> <p>Two different speed modes- High & low with gravity drain.</p> <p>The pump speed can also be fine tuned by varying the finger pressure on operating knobs for better control of speed.</p> <p>Cadmium free environment friendly NiMH batteries</p> <p>Intelligent charger prevents over charging/heating of batteries. Low battery indicator</p> <p>Desktop stand</p> <p>Power: 2x1.2V/1000mAh batteries with 8 hr battery life on full charge.</p> <p>Volumetric range Plastic or glass pipette from 0.1ml up to 200ml.</p> <p>Color coded: Red/Blue/Orange/Green any one.</p>		
363.	<p>Spatula Balance FROM fisher scientific. Cap 300 gm readability. 0.1 gm Scoops and weighs material at once Transfers and weighs crystals granulated material, solid, liquids, precipitates and chemicals. Balance with digital display is located on easy-grip handle. Includes : Two “AAA” batteries</p>		
364.	<p>Chlorophyll Content Meter Minolta SPAD-502. A light weight hand held meter for measuring the chlorophyll content of leaves without causing damage to plants. Measuring area 2x3mm, silicon photodiodes, 30 data memory. With 2 AA size Alkaline manganese 1.5 batteries.</p>		
365.	<p>Chlorophyll Content Meter Minolta SPAD-502 DL A light weight hand held meter for measuring the chlorophyll content of leaves without causing damage to plants. Measuring area 2x3mm, silicon photodiodes, 30 data memory. With 2 AA size Alkaline manganese 1.5 V batteries. With Data Logger.</p>		
366.	<p>Chlorophyll Content Meter Model CI-01 from Haratech Inst. User Friendly, low cost chlorophyll content meter. Field portable, light weight, robust design, dual wavelength optical absorbance (620-940nm), chlorophyll content range: 0-2000 units, Simple 2 button key pad operation, Auto calibration and temp. Compensation. 60 measurement memory capacity. No PC required. Leaf samples may be up to a maximum of 127 mm (5 inches) wide.</p>		
367.	<p>Chlorophyll content Meter Model OSI CCM-200 from ADC Bio Scientific Ltd. A light weight hand held device for the accurate and easy determination of chlorophyll content. Large integral data storage, large sampling area, 1 cm diameter, Light weight, fully portable, user friendly operation-rapid screening, non destructive. Specifically designed for rapid field screening each measurement takes only 2-3 sec to perform., 4000 chlorophyll content measurements can be stored in the internal memory. There is no requirement for an external data logger or computer stored data can be reviewed on the display, while still in the field.</p>		
368.	<p>Chlorophyll Fluorescence Analyser. Model Handly PEA, from Hansatech Inst. Compact hand held. Large Scale screening capacity up to 1000 full trace</p>		

	data files. High time resolution detection 100 Khz for fluorescence kinetics. Saturating high intensity focused LED array. Used defined experimental protocols for field applications. 32 bit windows transfer & analysis software.		
	CIF UK Pound		
369.	Chlorophyll Fluorescence Monitoring System, Model FMS-1 from Hansatech Inst., Pulse modulated system, Integral LED & tungsten halogen light sources, External device control interface, Programmable by Hansatech Scripting Language (HSL), Optional leaf clip with integral PAR/Temperature Sensor, fibre optic for incorporation into oxygen electrode chambers & IRGA, Window data acquisition & data analysis software. (594 nm amber modulating beam with 4 step frequency control (optional 470 nm blue LED).		
	CIF UK Pound		
370.	Chlorophyll Fluorescence Monitoring System Model FMS-2 from Hansatech Inst. Field model, Pulse Modulated System, compact field design, temperature compensated electronics, Programmable by hansatech Scripting Language (HSL), Leaf clip with integral PAR & Temp. sensor. Field.		
	CIF UK Pound		
371.	Chlorophyll Fluorescence Analyser:- Model OS-30p of ADC Bio Scientific ltd. For Rapid Plant Stress screening Device. A handheld device for photochemical efficiency and OJIP analysis, Integral fibres optic probe, photochemical efficiency (Fv/Fm), OJIP analysis-New, Graphic display, Integral data storage, cost effective. Light radiation between 400 nm and 700 nm (PAR) is the primary energy requirement of photosynthesis.		
	CIF UK Pound		
372.	Soil Color Reader Model SPAD-503 from Konica Minolta:- for checking soil fertility. Compact and easy use. Soil color reader gives instant identification of the closest color in Munsell soil color Notation. Offer fast and accurate color measurements. Simple operation. Fully Portable. CIF UK Pound.		
373.	Advance Semi Automatic Analyzer for all routine clinical chemistries, electrolytes, immunoassays, Hormones, Coagulation and Frug Tests. ERBA make Model Chem 5 Plus V2.		
374.(i).	Clinical Chemistry Analyzer Semi Automatic for all routine clinical testing, ERBA make model Chem 5X.		
(ii).	Next Generation Clinical Chemistry Analyzer (Semi Automatic) ERBA make Model Chem 7.		
(iii).	Testing Kit for above Machine (Biochemistry kits) different. (you can select from the list attached or provided all kits are to be kept in cooling cabinet)		
375.	OPHTHALMOSCOPE. Keeler English Make:		
a.	Standard with 2.8v Xenon Optholmoscope with slim Battery Handle Original V/Box		
b.	Professional: with 2.8v Xenon Opthalmoscope with slim Battery Handle in Original V/Box		
376.	OTOSCOPE Hine German Make:		
a.	Pocket Otoscope “ Mini-3000 ”Fiber Optic with 4 Reusable Spetula & Large Battery Handle Complete in V/Box		
b.	Otoscope “ Beta-200 ” Fiber Optic with 4 reusable Spetula & Large Battery Handle Complete in V/Box		
c.	Otoscope “ K-180 ” Fiber Optic with 4 Reusable Spetula & Large Battery Handle Complete in V/Box		
d.	Spare Bulb for beta-200/K-180/Mini-2000		
	WELCH-ALLYN, U.S.A. Make		

377.(i).	IR Non contact Thermometer: Optex Japan make EMM range -40 to 510 def. C.																																																		
(ii).	IR Non contact Thermometer: Rytex fluke USA make range -18 to 400 deg. C.																																																		
(iii).	IR Non contact Thermometer: Rytex fluke USA make range -30 to 500 deg. C.																																																		
(iv).	-do- -40 to 650 deg. C.																																																		
378.	<p>Digital Ultra Homogenizer Model :IKA T 25 digital ULTRA-TURRAX® The new ULTRA-TURRAX® high-performance dispenser by IKA®</p> <ul style="list-style-type: none"> For Volumes of 1 to 2.000ml (H₂O) The Spectrum of applications ranges from homogenizing waste water to the use in laboratory reactors, to dispersion tasks under vacuum/pressure and sample preparation in medical diagnostics. Three Types of shaft bearings. Standard version with digital display. Rotor-Stator configurations have thirty years of proven, guaranteed comparability of test results. <p>Accessories: S 25 KV – 25 F Dispersing element, 18/2 – ET 0 Disposable tube, S 25 KV – 25 G Dispersing element, R 182 Boss head clamp, R 1825 Plate stand, R 1827 Plate stand, S 25 G 10 G – KS Dispersing element (10 pcs), S 25 D – 14 G – KS Dispersing element (10 pcs), S 25 N – 188 G Dispersing element, S 25 N – 10 G Dispersing element, S 25 N – 8 G Dispersing element, S 25 NK – 19 G Dispersing element, S 25 N – 25 G Dispersing element, R 1826 Plate Stand, S 25 KV – 18 G Dispersing element.</p> <p>Technical Data</p> <table> <tr> <td>Motor rating input (w)</td><td>500</td><td>Process type</td><td>Batch</td></tr> <tr> <td>Motor rating output (w)</td><td>300</td><td>Dimensions (W x H x D) [mm]</td><td>65 x 240 x 80</td></tr> <tr> <td>Volume range min (H₂O) (l)</td><td>0.001</td><td>Weight (kg)</td><td>1.6</td></tr> <tr> <td>Volume range max. (H₂O) (l)</td><td>2</td><td>Permissible ambient temperature [°C]</td><td>5 – 40</td></tr> <tr> <td>Viscosity max. (mPas)</td><td>5000</td><td>Permissible relative moisture [%]</td><td>80</td></tr> <tr> <td>Speed range [1/min]</td><td>3400-24000</td><td>Protection class according to</td><td>IP 20 DIN EN 60529</td></tr> <tr> <td>Speed deviation [%]</td><td>1</td><td>RS 232 interface</td><td>No</td></tr> <tr> <td>Speed control</td><td>Stepless</td><td>Analog Output</td><td>No</td></tr> <tr> <td>Speed display</td><td>LED</td><td>Voltage [V]</td><td>220-240/100-120</td></tr> <tr> <td>Noise without Element [db (A)]</td><td>73</td><td>Frequency [Hz]</td><td>50/60</td></tr> <tr> <td>Extension arm Diameter [mm]</td><td>13</td><td>Power Input [w]</td><td>500</td></tr> <tr> <td>Extension arm length [mm]</td><td>175</td><td></td><td></td></tr> </table> <p>Ident. No. 3565000 Marketed by Thermo fisher India ltd. Complete as above.</p>	Motor rating input (w)	500	Process type	Batch	Motor rating output (w)	300	Dimensions (W x H x D) [mm]	65 x 240 x 80	Volume range min (H ₂ O) (l)	0.001	Weight (kg)	1.6	Volume range max. (H ₂ O) (l)	2	Permissible ambient temperature [°C]	5 – 40	Viscosity max. (mPas)	5000	Permissible relative moisture [%]	80	Speed range [1/min]	3400-24000	Protection class according to	IP 20 DIN EN 60529	Speed deviation [%]	1	RS 232 interface	No	Speed control	Stepless	Analog Output	No	Speed display	LED	Voltage [V]	220-240/100-120	Noise without Element [db (A)]	73	Frequency [Hz]	50/60	Extension arm Diameter [mm]	13	Power Input [w]	500	Extension arm length [mm]	175				
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379.	<p>Hand Held Homogenizer. Model OMNI TH Cat No. TH220 PCR.</p> <ul style="list-style-type: none"> • Consist of Omni TH Motor • Omni Plastic Probe 12 Number for 0.3-30 ml volume • Omni Tip Adapter <p>Specification. Processing Range : 0.003ml to 100ml (with probe) Speed : 5000-35, rpm Weight : 500gm Warranty : One Year</p> <p>Optional Accessories: Note : Please Select Stainless Steel Probe as Per your Requiement 5mm x 75mm Flat Bottom Fine to Medium 0.03ml-5ml 7mm x 95mm Flat Bottom Fine to Medium 0.25ml-30ml 7mm x 95mm Saw Tooth Fine to Medium 0.25ml-30ml 10mm x 95mm Saw Tooth Fine to Medium 1.5ml-100ml MOTOR Stand Assembly complete: S1000</p>		
380.	<p>Burkard Potter Spray Tower: Suitable for studying the biological effects of chemicals both when applied as a direct spray on the organisms or as a residual film. This design incorporates more recent Developments from Rothamsted Experimental Station ,Harpenden , Herts, England, including the following: quickly detachable atomisers pneumatically operated spray table and all air controls mounted on attached instrument panels, A 0-2 kg/cm² pressure gauge is fitted as standard equipment.</p> <p>General Specification. Height x width x depth : 122x36x36cm (48x14x14 inches) Diameter of Spray tube : Top Flange : 15.7 cm; Bottom Flange: 11.9cm Max. diameter of specimen : 11cm dish on table Max. working pressure : 2kg/cm² Capacity of reservoir : 24ml</p> <p><u>ESSENTIAL ACCESSORIES</u> (i). Carbon Vane Compressor complete with muffler Unit. (ii). Glass Reservoir (iii). Return Spring</p>		
381.	<p><u>‘MSI’ Lepholizer (free Drier) 1 Lit “LABCONCO” MARKETING BY COLEPARMER-7740030 Table Top Model:</u> - Lyophilizer/ Freeze Dryer. It Covers a range of application from multi-user centralized laboratory application, pilot plant determination works etc. 1 ltr Bench top freeze dry system, collector temp.: -50 deg.C, Ice holding cap.: -1lit water removing cap. In 24 hr. ;1 lit Collector coil & chamber: brushed s.s. Features: LCD display for set up and operating parameters. It also displays total duration of refrigeration system operation and time since the refrigeration system serviced. Included: Plug, Vacuum Hose, Hose clamps, Cahmber lid, lid gasket, power cord user manual. Suitable to work on 220 V. Single Phase 50 Hz AC supply. Unit Size: 1 lit Approximate. <u>Essential Accessories at Extra Cost:</u> a. Drying Unit (Inbuilt) b. 4 PORT Manifold c. Flask 300ml (4no) d. Adaptor glass ¾”-3/4” (4no.) e. rotary Vacuum Pump FD-6 f. Exhaust Oil fist filter. Optional But nessary g. Pre Freezing glycol Bath having temp up to -30 deg. C for pre freezing of samples in medium with its own refrigeration system and digital temp display and control. h. Centrifuge Attachment for 50 ampoules. Extra. i. Voltage Stabilizer at extra cost. 3KVA Automatic. j. Servo Voltage Stabilizer 5KVA.</p>		

382.	<p><u>SIGMA 3K-15 MULTIPURPOSE HIGH SPEED REFRIGERATED TABLE TOP CENTRIFUGE</u></p> <p>Max Speed : 15300 rpm. Max Volume : 4 x 200 ml. Max rcf : 21460 x g Temperature : -20 to +40°C Maintenance Free, noiseless, brushless drive motor preselection of run parameters in terms of rpm of rcf 20 deceleration and acceleration curves and 10 specific program memory short run the function Facility to repeat last run program CFC Free Refrigerant & Insulation Magnetic rotor identification Timer infinity or upto 9 hrs. 59 min Accepts Angle, Swing out and Microplate rotors Operates on 230V, 50Hz Accessories:</p> <p>a. Angle Rotor, Hermetically Sealed, 24 x 2.2/1.5 ,l, (Eppendorf); Max 15300 rpm, rcf : 21460 x g b. Angle Rotor, Hermetically sealed, 6 x 50 ml, incl. Cover max 11000 rpm ; rcf : 11363 x g c. Adaptor for 15ml Tube Qty.6 No.</p>		
383.	<p><u>SIGMA 2-16K HIGH SPEED TABLE-TOP REFRIGERATED CENTRIFUGE MICROPROCESSOR CONTROLLED with LC Display Screen:</u></p> <p>Max Speed : 15300 rpm ; Max RCF : 21460 x g Max Volume : 400ml with 4 x 100 ml swing rotor Max Volume : 300 ml, with 6 x 50 ml Angle Rotor Temp. range -10 to 40°C & CFC free refrigeration 50 user program storage mamory Time Preselection upto 10sec, 10hrs-59 min or continus run Maintenance Free, noiseless, brushless motor drive Preselection of run parameter in tems of rpm, rcf & time Short run function with display of run time in seconds Automatic Rotor identification prevents rotor over speeding Soft start, Soft stop, Break off mode avoids sedimentation maxing Self diagnostic system & ERROR messages with audible alarm To Knob operation (no complicated keypad) Operates on 230V 50Hz Accessories:</p> <p>(i). Angle Rotor 24 x 1.5/2.2ml incl. lid, max. 15300 rpm; rcf 21460 x g</p>		
384.	<p>Sigma Centrifuge 1-14: Sigma's newly developed high speed desktop centrifuge 1-14 is ideally suited for sedimentation in 0.2 ml through 2.2ml micro tubes. The large display allows high legibility of the values for speed, relative centrifugal force and running time the setting parameters is done quickly and simply and sigma with push buttons. The sigma 1-14 operates smoothly and quietly.</p> <p>Swing out Rotor : - Angle Rotor : 0.2-2ml Max. Capacity : 24 x 2,2ml Max. Volume : 48ml Max. Speed rpm : 200 Max. Speed rpm : 14.800 Max. RCF, x g : 16.163 Kinetic energy Max. Nm . : 1721 Interference Suppression : EN 61326 Angle Rotor.</p> <p>a. Angle Rotor Aluminium 24 x 1.5/2.2ml, incl. polysulfone lid Max. 14800rpm, 16 162 x g b. Angle Rotor polypropylene for 2 PCR – strips with 8 tubes 0.2ml each max. 14800 rpm, 11755 x g, incl. polysulfone lid c. Hematocritrotor incl. lid for 24,1.4 x 50mm capillary tubes max. 13000rpm 11900x g ; incl. reader 17028</p>		

385.	<p><u>Sigma Refrigerated Centrifuge1-14K.</u></p> <ul style="list-style-type: none"> – Identical rotor library <p>Additional</p> <ul style="list-style-type: none"> – 200-15000rpm – Stainless steel bowl – Rapid cooling program – 10 programs – Refrigerant R134a (CFC-free) – Temperature setting range – 10 - +40 °C – Temperature increments 1 °C – Guaranteed 4 °C at max. Speed <p>Swing out Rotor : -</p> <p>Angle. Rotor : 0.2-2ml</p> <p>Max. Volume : 48ml</p> <p>Max. Speed rpm : 15.000</p> <p>Max. RCF, x g : 16.602</p> <p>Angle Rotor.</p> <p>a. Angle Rotor Aluminium 24 x 1.5/2.2ml, incl. polysulfone lid Max. 15000rpm, 16 602 x g</p> <p>b. Angle Rotor polypropylene for 2 PCR – strips with 8 tubes 0.2ml each max. 15000 rpm, 12074 x g, incl. polysulfone lid</p> <p>c. Hematocritrotor incl. lid for 24,1.4 x 50mm capillary tubes max. 13000rpm 11900x g ; incl. reader 17028</p>		
386.	<p><u>Sigma Centrifuge 1-16.</u></p> <p>The ergonomics and the beautiful design of brand new generation of laboratory centrifuges will help make your work in the lab easier close the lid and hit start or make use of the programming options.</p> <ul style="list-style-type: none"> – Bright display – Big push buttons – Minimal temperature increase during run – Maintenance free brushless drive motor – Motorized lock, auto lid open – Last run memory – 2 acceleration and deceleration curves, soft or fast – Stainless steel bowl – Emergency lid lock release – Window in the lid for external speed control – Over speed controller – According to EN 61010-2-020 – Rohs conform <p>Swing out Rotor : -</p> <p>Angle Rotor : 0.2-2ml</p> <p>Max. Volume : 48ml</p> <p>Max. Speed rpm : 15.000</p> <p>Max. RCF, x g : 20.627</p>		
387.	<p><u>Sigma Centrifuge 2-6.</u></p> <p>Swing out Rotor : 0.2-100ml; MTP</p> <p>Angle Rotor : 0.2-50ml</p> <p>Max. Volume : 400ml</p> <p>Max. Speed rpm : 4.000</p> <p>Max. RCF, x g : 2.594</p>		

388. (i).	<p>Sigma Centrifuge 2-16P. Universal Laboratory centrifuge for swing- out and angle rotor w/o Cooling</p> <ul style="list-style-type: none">– Spin control Universal– Illuminated keys for start, stop lid open– For sedimentation up to 4x 120ml in swing-out rotor or up to 20.000 x g in angle rotor– Brushless drive practically maintenance- free– Speed preselection up to 15.000 rpm Low speed operation from 100rpm possible– A magnetic rotor identification prevents rotors from over speeding– Stainless steel bowl– Imbalance switch– No need to open the casing for emergency lid lock release– Easy lid opening due pneumatic spring support– Window in the centrifuge lid for external speed control– Produced according to national and international safety regulations (e.g. IEC 1010) <p>Swing out Rotor : 0.2-100ml; MTP Angle Rotor : 0.2-50ml Max. Volume : 400ml Max. Speed rpm : 15.000 Max. RCF, x g : 20.627</p> <p>Angle Rotor & Adapter</p> <p>a. Angle Rotor 10x10ml incl. Hermatic lid, max. 13500 rpm ; rcf 15485 x g b. Angle Rotor 20 x 15ml round tubes & 15ml Falcon tubes Max. 4000rpm ; rcf 2486 x g c. Angle Rotor 6 x 30ml incl. Hermatic lid, Max 13500rpm; rcf 15893 x g d. Adapter for 10ml tubes for rotor 12139 (set of 2pcs) e. Angle rotor for 6 x 50 ml Falcon tube, Max. 7800rpm; rcf. 6462 x g f. Adapter for 1 Falcon Tube 15ml no. 15115(set of 2)</p>																																				
389.	<p><u>SPRAY DRYER YAMATO JAPAN:</u> MODEL: ADL311/GA-32/DL-41/GS310: Spray Dryer ADL311/GA-32/DL-42/GS310 Features: ADL-311:</p> <ul style="list-style-type: none">• Economy Unit'• Ideal for simple spray dry operation.• Temperature range 40 oC TO 200 oC <p>Specification:</p> <table><tr><td>1. Water evaporation rate</td><td>- Max. approx 1300ml/hr</td></tr><tr><td>2. Flow rate for sample liquid feed temp</td><td>- Max. 28ml/min</td></tr><tr><td>3. Temp. cont. range</td><td>- -4 oC ~ 200 oC</td></tr><tr><td>4. Temp. cont. accuracy</td><td>- +-1 oC</td></tr><tr><td>5. Spray Nozzle</td><td>- Two liquid nozzles</td></tr></table> <table><tr><td>Model No.</td><td>ADL311</td><td></td><td></td></tr><tr><td>Type</td><td>Economy Model</td><td></td><td></td></tr><tr><td>Water Evaporation Rate</td><td>1300ml/hr</td><td></td><td></td></tr><tr><td>Sample liquid Feed Pump</td><td>Max.28ml/min</td><td></td><td></td></tr><tr><td>Temperature control Range</td><td>40 °C ~ 200 °C, Temp. Accuracy +1 °C</td><td></td><td></td></tr><tr><td>Application</td><td>Ideal for simple Spray Dry operation</td><td></td><td></td></tr></table> <p>New Model GS-311 suitable for organic solvents. System circulates Non-flammable gas, N2 in the closed circuit and maintains the concentration in the circulation gas below the explosive limit. The model suitable for spray drying of undiluted solution that contain organic solvent with automatic control of oxygen concentration in the circuit below of 5% by monitoring with oxygen meter.</p>	1. Water evaporation rate	- Max. approx 1300ml/hr	2. Flow rate for sample liquid feed temp	- Max. 28ml/min	3. Temp. cont. range	- -4 oC ~ 200 oC	4. Temp. cont. accuracy	- +-1 oC	5. Spray Nozzle	- Two liquid nozzles	Model No.	ADL311			Type	Economy Model			Water Evaporation Rate	1300ml/hr			Sample liquid Feed Pump	Max.28ml/min			Temperature control Range	40 °C ~ 200 °C, Temp. Accuracy +1 °C			Application	Ideal for simple Spray Dry operation				
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390.	BIO KJEL AUTOMATIC NITROGEN / PROTEIN ESTIMATION SYSTEM. BIO KJEL AUTOMATIC MICRO (100 ml.vol.) BLOCK DIGESTION SYSTEM (Suitable only for plant samples)		
(i).	BK 06 BIO KJEL Automatic Six Place Microprocessor based Micro Block Digestion System		
(ii).	BK 12 BIO KJEL Automatic Twelve Place Microprocessor based Micro Block Digestion System		
(iii).	BK 20 BIO KJEL Automatic Twenty Place Microprocessor based Micro Block Digestion System		
391.	BIO KJEL AUTOMATIC MACRO (250 ml.vol.) BLOCK DIGESTION SYSTEM (Suitable for plants, soils, fertilizers, pesticides, water, food and feed samples,etc.)		
(i).	BK 06M BIO KJEL Automatic Six Place Microprocessor based Macro Block Digestion System		
(ii).	BK 08M BIO KJEL Automatic Eight Place Microprocessor based Macro Block Digestion System		
(iii).	BK 12M BIO KJEL Automatic Twelve Place Microprocessor based Macro Block Digestion System		
(iv).	BK 20M BIO KJEL Automatic Twenty Place Microprocessor based Macro Block Digestion System		
392.	BIO KJEL AUTOMATIC DISTILLATION SYSTEM		
(i).	BIO DIST S BIO KJEL Simple Automatic Distillation System		
(ii).	BIO DIST A ES BIO KJEL Autosequencing Enhanced Series Microprocessor based PC Compatible Distillation System with in-built software (9 steps and 30 Programs)		
(iii).	BIO DIST F BIO KJEL Autosequencing Microprocessor based PC Compatible Distillation System with in-built software (12 steps and 100 programs)		
393.	ACCESSORIES FOR ABOVE.		
(i).	BIO SCRUB (3 stage) Three Stage Acid Neutralizer scrubber		
(ii).	BIO SCRUB (4 stage) Four Stage Acid Neutralizer Scrubber		
(iii).	BIO FREEZ Refrigerated Water Cooling recirculation System		
394.	BIO SOX AUTOMATIC SOLVENT EXTRACTION SYSTEM		
(i).	BS 02 Two Place Automatic Solvent Extraction System		
(ii).	BS 04 Four Place Automatic Solvent Extraction System		
(iii).	BS 06 Six Place Automatic Solvent Extraction System		
395.	BIO FIB AUTOMATIC FIBRE ESTIMATION SYSTEM		
(i).	BF 02 Two Place Automatic Fibre Estimation System.		
(ii).	BF 04 Four Place Automatic Fibre Estimation System.		
(iii).	BF 06 Six Place Automatic Fibre Estimation System.		