

TENDER DOCUMENT

(FOR PROCUREMENT OF Equipments)

2018-19

CENTRAL INSTITUTE FOR COTTON RESEARCH

(INDIAN COUNCIL OF AGRICULTURE RESEARCH)

REGIONAL STATION, SIRSA-125055(HARYANA)

(Phone No.01666-220428, Fax: 01666-230271)



भ. कृ. अनु. प.— केन्द्रीय कपास अनुसंधान संस्थान
(भारतीय कृषि अनुसंधान परिषद)
क्षेत्रीय स्टेशन, सिरसा - 125055 (हरियाणा) भारत
ICAR-CENTRAL INSTITUTE FOR COTTON RESEARCH
(Indian Council of Agricultural Research)
Regional Station, Sirsa - 12500 (Haryana) INDIA
Phone No.: 01666-220428; Fax No.: 01666-230271; Email ID: cicrsirsa@yahoo.co.in



F. NO. Store/Tender/2018-19

Date: 28/12/2018

FOR PROCUREMENT OF EQUIPMENTS

Sealed tenders are invited from reputed authorized firms on behalf of the Director, ICAR-Central Institute for Cotton Research, Nagpur at ICAR-CICR, Regional Station, Sirsa for the procurement of Equipments as per **Annexure I & II** under two Bid Systems.

Description of Tender :-

A. Cost of Tender Form	NIL
B. Earnest Money Deposit	Rs.10,000/- per Tender
C. Last date for receipt of Tenders	11.01.2019 up to 12:00 Noon
D. Tenders(Technical Bid) to be opened on	11.01.2019 at 02:00 PM
E. The Tender documents is available at website :www.eprocure.gov.in,www.cicr.org.in	

Tenders/Quotations received after due date will not be entertained in any case.

To
M/S.....
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Sub: Tender for the procurement of Equipments— reg.

Dear Sirs,

Sealed quotations are invited from reputed authorized firms on behalf of the Director, ICAR-Central Institute for Cotton Research, Nagpur at ICAR-CICR, Regional Station, Sirsa for the procurement of Equipments under two Bid Systems in the prescribed format as per **Annexure I & II**.

Terms & Conditions:

1. **The rates quoted shall be for free delivery & installation at ICAR-CICR, R.S., SIRSA** including everything except ST/VAT/GST, which may be shown separately.
2. **An amount of Rs. 10,000/-** as earnest money per Tender in the form of D.D. in favor of HEAD, ICAR-CICR, RS, Sirsa payable at Sirsa should be enclosed separately with their Tender/quotation. However, no interest will be paid on earnest money.

3. The price should be inclusive of transportation cost, loading ,uploading charges, labour cost, installation cost etc for **ICAR-CICR, Regional Station, Sirsa**
4. Sealed Tender/quotation along with the literature and pamphlets should reach this office on or before **11.01.2019** by **12 Noon** Sharp at Head's Room at **ICAR-CICR, Regional Station, Sirsa**
5. Original tender document should be duly stamped and signed on each page as token of acceptance of all the terms and conditions laid down in tender document.
6. Tenders/Quotations received after due date will not be entertained in any case.
7. As the **equipments** is urgently needed for our research work, the firms who will be able to make immediate supply at ICAR-Central Institute for Cotton Research, Regional Station, Sirsa should only quote the desired rates.
8. Instruments indigenous or imported will be purchased from only those parties, who can ensure and undertake to provide the satisfactory after-sales-service within the country. The supplier should also ensure to offer a complete detailed package on back up support, prompt commissioning, after-sales-service including workshop backup, timely supply of **equipments** to Scientists/ Technicians on use.
9. Guarantee/Warranty period offered and after sales service available should be clearly mentioned.
10. The Tenders/quotations should be quoted by solely local authorized stockiest Service distributor against these equipments, who has necessary service backup facility.
11. Authorization certificate should invariably be enclosed with the quotation for these equipments.
12. The make, quality, and specifications may be stated in detail/must be as per details given by this office along with documentary evidences. In case supply is not made within a fixed period the office reserves the right to cancel the supply order.
13. The payment will be made only after completing delivery according to the specifications, quality, and quantity given in the quotation/purchase order or through opening of LC as the case may be.
14. Other terms and conditions of supply if any may also be stated.
15. **Equipment** will be accepted only after giving satisfactory demonstrations.
16. The Director, ICAR-CICR, Nagpur reserves the right to accept or reject one or all quotations without assigning any reason thereof.
17. The tender shall have furnish the offer in TWO SEPARATE ENVELOPES clearly mentioning Envelop No 1 "**Technical bid for (name of equipment)**" and Envelop No 2 "**Financial bid for (name of equipment)**" (i.e. both envelops to be enclosed in one sealed envelope duly super-scribed with the word "**Tender for _____ (name of equipment)**").
18. Each envelope may please be super-scribed with the word "**Tender/Quotation for procurement of Equipments**".
19. The Tenders/quotations, without the desired specifications/ literature/ pamphlets received after the due date is liable to be rejected.
20. The price of respective equipments and any optional accessories required with the equipment should be quoted separately for fair evaluation.
21. The bid will be finalized on the basis of Technical Competence & availability of fund. The Director, ICAR-CICR, Nagpur reserves the right to purchase only some Equipments or all equipments & their accessories as per Fund availability & functional requirement keeping in view of objectives.
22. If the last date of receipt of tender is declared to be a holiday the next working day shall remain valid for the purpose.
23. Only Bids qualifying technically (in all respect) shall be considered for financial aspects.
24. The rates quoted should be valid for Ninety days(90) days from the date of opening tender.

25. There should be no cutting /over writing in tender documents. The cutting, if any should be duly attested. Un-attested amended/overwritten figures would not be considered.
26. While submitting tender GST,PAN/GSTIN No. Sales Tax No. Must be indicated in the tender letter and certified copy enclosed.
27. In all matters of disputes, the decision of the Director of this Institute shall be final and binding on either side.

Yours faithfully,

Head of Station

ANNEXURE - I

TECHNICAL BID FOR PROCUREMENT OF EQUIPMENTS

(To be kept in separate envelop)

1.	Name of the Firm/Agency	
2.	Full address with Tele. / Mob. No., Fax No., e-mail	
3.	EMD of required amount (DD / No., date, Name of the Bank / Branch)	
4.	Registration Certificate of the Firm / Company	
5.	Service Tax Registration No /GSTN	
6.	Sales Tax / Value Added Tax Registration Certificate	
7.	I.T.PAN No. / TIN No.	
8.	Proprietary Certificate / Authorized dealer certificate	
9.	Bank details for E-payment	
	a. Name of the Account holder / firm / Company (Payee's Account Name)	
	b. Nature of Account (saving / current)	
	c. Name of the Bank	
	d. Bank Account No.	
	e. Branch Address	
	f. IFSC Code of Bank / Branch	
10.	Specifications Check List (Enclosed)	
11.	Documentary proof for having experience in dealing with Government Institutions may be attached	

1. I/We accept all terms and conditions and instructions given in this tender form issued by ICAR-CICR, Coimbatore
2. The words "TECHNICAL BID" for supply of "**EQUIPMENTS**" should be written clearly and prominently on this envelop along with tender.

Date: _____

Place: _____

AUTHORISED SIGNATORY (TENDERER)

FORMAT OF QUOTATION (Annexure II) (Financial Bid)

Company Letter Head

Sr. No.	Particulars	Quantity	Amount in Rs. (Inclusive of all Taxes)
1.	<p><u>Stainless steel sample grinder (Wiley mill):</u></p> <p>Specification:</p> <ol style="list-style-type: none">1. Stainless steel body.2. Rust free Epoxy coated body.3. Size: 200 & 75 mm or more.4. Heavy duty Single phase Brushless Motor.5. Voltage: 220-240 V, single phase AC supply.6. Two stationary blades and rotor with four cutting edges made of Alloy Steel.7. Removable Perspex plate forms the face of the chamber and permits observations during operation.8. All accessories including Jars for sample collection.9. Sieve top of 20, 40 and 60 mesh with receiver.10. Cast-iron base with rubber feet.11. Motor Capacity: 1.00 H.P. (at least) heavy duty single phase AC motor.12. 1 to 50 g sample volume with variable speeds-860, 1700 and 3700 rpm or better, stainless steel construction.13. Removable safety glass plate for viewing sample during milling and allows easy access to interior for cleaning with steel hopper with cover, wooden plunger, delivery tubes with metal sieve tops of 20, 40 and 60-mesh, each with receiver, two extra tool steel stationary blades, extra glass front plate sample grinding without moisture loss.14. The Chamber is to be fitted with a	1No.	

	<p>Hopper provided with a cover.</p> <ol style="list-style-type: none"> 15. Three delivery S.S. Sieves, brush, L-n Key & Plastic receiver are to be supplied. 16. Fitted with aue/ge/crompton/equivalent Motor. 17. Automatic 0-60 minute “German” Timer. 18. Arthur H. Thomas type. <p>2. <u>Horizontal / Rotary Orbital shaker (power operated):</u></p> <p>Specification:</p> <ol style="list-style-type: none"> 1. Fixed Eccentricity: 7 mm. 2. Throw: 14 mm Circular. 3. Motor: Brushless heavy duty induction motor. 4. RPM: Continuous variable max. up to 300. (50 to 250/300 RPM). 5. Capacity: 49 Flask of 250/500 ml or more. 6. With Timer. 7. Sturdy Construction, Working on Single/Set of Eccentric, Smooth & Perfect throw, Brushless induction motor. 8. Electronic Digital RPM Indicator. 9. Smooth and Jerk less shaking system. 10. Shock absorbers PAD to withstand vibration. 11. AC frequency Drive. 12. Variable Speed Control. 13. Heavy duty Single phase Brushless Motor with Variable Frequency Drive (VFD). 14. Voltage: 220-240 V, single phase, AC supply. 	1No.	
3.	<p><u>Hot plate:</u></p> <p>Specifications:</p> <ol style="list-style-type: none"> 1. Uniform Heating. 2. Sturdy Construction. 	1No.	

4.	<p>3. Air Ventilation.</p> <p>4. Insulated Heating Portion.</p> <p>5. 3 Heat Control Switch.</p> <p>6. Thermostatic Control.</p> <p>7. Construction: Mild Steel Body & Mild Steel Top OR Stainless Steel Body & S.S. Top or Cast Iron Top.</p> <p>8. Max. Surface Temperature: 300/350 Deg. C. (Continuous heating upto 350°C).</p> <p>9. Voltage: 220-240 V, single phase, AC supply.</p> <p>10. Rectangular model with single heating plate.</p> <p>11. Top size: 450 mm x 600 mm or more.</p> <p>12. Digitally controlled.</p> <p>13. Watts: 2500 watts or more.</p> <p>14. Voltage: 220-240 V, single phase, AC supply.</p> <p><u>Water bath:</u></p> <p>Specifications:</p> <ol style="list-style-type: none"> 1. Double walled inside, Space between the walls should be filled with special grade mineral wool. 2. Drain plug, Inner bath chamber and lid made of Stainless Steel (SS-304 grade), Outer chamber should be made of M.S. sheet duly powder coated, Concentric rings can be removed to accommodate containers of various sizes. 3. Temperature ambient to 100 degree C. 4. Thermostatic. 5. Internal Dimensions (L x W x D): 355 x 405 x 100 mm or more. 1. Voltage: 220-240 V, single phase, AC supply. 6. The equipment is to be provided with a panel having a thermostat control Knob. 7. No. of Holes: 12 Holes of 75 mm Dia. 8. Capacity: 15 ltrs or more. 	1No.	
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5.	<p>9. Heating Load: 2.0 KW or more.</p> <p>10. Temperature Range: From ambient to 100 °C + 0.5°C.</p> <p>11. Stirring Device: Stirring arrangement with the help of FHP stirrer.</p> <p>12. Diffuser Shelf: Heater protective perforated cover made of Stainless Steel.</p> <p>13. High speed stirrer with FHP motor, SS rod and stirring blade.</p> <p><u>Double distillation unit:</u></p> <p>Specifications:</p> <ol style="list-style-type: none"> 1. Vertical type, Quartz Double Distillation unit. 2. Automatic Electrically Heated All Glass Double Distillation Apparatus. Complete with glass fitting, metallic stand, rings clamps and electrical fittings etc., 3. Double Stage distillation unit. 4. Capacity to produce 2.5 L/hr or more. 5. Made of high quality heat resistant glass cylinders and tubes and also resistant to minor damages. 6. Boiler portion made of high purity and good quality borosilicate / Quartz material along with water level indicator. 7. Borosilicate / Quartz condenser, high quality condenser. 8. Heater is of high purity electronic grade transparent quartz type. Should avoid contact of embedded boiler with water. 9. Provision for easy cleaning and general maintenance of boiler. 10. The resultant distillate obtained should be of high quality ultra pure water that is suitable for laboratory use. 11. Distillate should be free from organic, inorganic and colloidal solids, constituents, metallic ions including heavy metals and 	1No.	
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6.	<p>also pyrogen free.</p> <p>12. Distillation stand should be of high quality rust free metal with embedded clamps for perfect holding.</p> <p>13. Apparatus compatible with single phase electrical supply within 220-240 volts range, AC supply.</p> <p>14. Energy efficient.</p> <p>15. Provided with safety cut off device.</p> <p>16. Parts should be replaceable.</p> <p>17. ISO accredited.</p> <p>18. Spare Condenser is to be provided as accessories.</p> <p>19. Quartz heater</p> <p><u>Tractor operated Rotary Mulcher (Tractor Mounted Straw Chopper cum Spreader):</u></p> <p>Specifications:</p> <p>(i) Tractor operated Rotary Mulcher (Tractor Mounted Straw Chopper cum Spreader).</p> <p>(ii). Drive Transmission Type: Belt Drive.</p> <p>(iii). Tractor Power Transmission: Shaft Type.</p> <p>(iv). Over Running Clutch Type: P.T.O.</p> <p>(v). Tractor required (power in HP): 45-60 HP.</p> <p>(vi). Operating Mechanism: PTO operated (including all accessories related to PTO operations).</p> <p>(vii). PTO rpm: > 500.</p> <p>(viii). Working Width (mm / inch): At least 1650 / 65 or more.</p> <p>(ix). Frame: Strong and Robust (Iron Frame).</p> <p>(x) Fitted with “Y” blades (at least 32 number of blades or more) and Straight blades (at least 16 number of blades or more).</p> <p>(xi). Fitted with ‘Hammer type blades’ for hard crop residues (at least 16 number of blades or more).</p> <p>(xii). 3 point linkage - suitable for cat I & II.</p> <p>(xiii). Side Drive Belts - Side Drive; Transmission belts: 4 nos.</p>	1No.	
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7.	<p>(xiv). Rear Roller with height adjustment. (xv). Fitted with hydraulic side shift mechanism. (xvi). Tractor mounted type.</p> <p><u>Chopper:</u></p> <p>Specifications:</p> <p>(i). Chopper (Tractor mounted Mobile Shredder / Tractor mounted Cotton Stalk Shredder) (ii). Number of Rows: 1. (iii). Wheel type: Metal Wheel and Rubber Tyre (both) - Detachable. (iv). Disc Cutter (no.): 2. (v). Shredding Knife (no.): 12. (vi). Tractor required (power in HP): 40-50 HP. (vii). Operating Mechanism: PTO operated (including all accessories related to PTO operations) (viii). Exhaust Direction: Adjustable. (ix). Type & Hitching: 3 Point Linkage (Cat. II). (x). Frame: Strong and Robust (Iron Frame). (xi). Central and Side Casting Wheels. (xii). Adjustable Guides – To ensure high efficiency feeding of lower portion of plant stems. (xiii). Hopper – For manual feeding. (xiv). Trolley hitch behind the main frame – To attach trolley to collect shredded material. (xv). Tungsten coated Boron steel blades and disk cutter. (xvi). Foldable frame - for easy transportation. (xvii). Chute / Exhaust system: Both Small Chute (To throw shredded material in field) as well as Long Chute (To divert shredded material in trolley) – removable, with adjustable exhaust direction. (xviii). PTO (rpm): > 500 (max. upto 1500).</p>	1No.	
8.	<p><u>Lawn mower:</u></p> <p>Specifications:</p> <p>(i). Lawn mower (Tractor operated lawn mower / Tractor mounted straw chopper and spreader / Tractor operated Rotary Slasher).</p>	1No.	

<p>9.</p>	<p>(ii). Working Width (mm / inch): 1500 / 59.1 (approximately). (iii). Number of blades: 2-3. (iv). Cutting Length (mm / inch): 25 to 150 / 1 to 5.9. (v). Rear side Protection: Iron chains or rubber flaps. (vi). Tractor required (power in HP): 35-60 HP. (vii). Operating Mechanism: PTO operated (including all accessories related to PTO operations) (viii). PTO rpm: > 500. (ix). Blade Speed (rpm): > 1000. (x). Frame: Strong and Robust (Iron Frame). (xi). Adjustable cutting height up to 25 mm. (xii). 3 point linkage - suitable for cat. II. (xiii). Tractor mounted type.</p> <p>NOTE: ORIGINAL PRINTED CATALOGUE/LEAFLETS ARE TO BE ENCLOSED ALONG WITH THE TENDER FOR THE ABOVE MENTIONED ITEMS. THE SERIAL NOS. OF THE ABOVE MENTIONED SPECIFICATIONS MIGHT BE INDICATED/ UNDERLINED/ HIGHLIGHTED WHERE THE ABOVE POINTS ARE MEETING/ MATCHING OR OTHERWISE.</p> <p><u>SPAD Meter</u></p> <p>Quantity: 1 unit (along with accessories).</p> <p>Specifications:</p> <ol style="list-style-type: none"> 1. SPAD Meter / SPAD Chlorophyll Meter. 2. Equipment should be suitable for the measurement of chlorophyll content or greenness of plant leaves. 3. Type: Hand held Chlorophyll meter SPAD 502 plus. 4. Measurement method: Optical density 	<p>1No.</p>	
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- difference at two wavelengths.
5. Measurement area: 2mm X 2mm or more (Up to 10 mm²).
 6. It should be suitable for leaves having thickness of 0.8-1.0 mm or greater range.
 7. Display: LCD panel with minimum 4-digit measurement value.
 8. Display range: -9.9 to 199.9 SPAD units or more.
 9. Light Source: LED.
 10. Operating temperature: 10 to 55 degree Celsius or greater range.
 11. With warning buzzer or alternative warning indicator.
 12. The firm shall submit necessary catalogues and product data sheets along with the offer.
 13. Equipment should be provided with all the standard accessories.
 14. Warranty: minimum 1 year.
 15. Memory capacity to store at least 30 measurements or more.
 16. Accuracy: ± 1.0 SPAD unit.
 17. Repeatability: ± 3.0 SPAD units.
 18. With good battery backup with all standard accessories to operate under field condition.
 19. A standard factory calibration certificate should be provided.

NOTE: ORIGINAL PRINTED CATALOGUE/LEAFLETS ARE TO BE ENCLOSED ALONG WITH THE TENDER FOR THE ABOVE MENTIONED ITEMS. THE SERIAL NOS. OF THE ABOVE MENTIONED SPECIFICATIONS MIGHT BE INDICATED/ UNDERLINED/ HIGHLIGHTED WHERE THE ABOVE POINTS ARE MEETING/ MATCHING OR OTHERWISE.

10.	<p><u>Tender Specifications for gel documentation system</u></p> <p><u>Gel Doc Tender specifications</u></p> <ol style="list-style-type: none"> 1. Gel documentation system for imaging DNA, RNA and colorimetric protein gels with in-built high contrast medical grade touch screen computer display with magnesium reinforced glass for robustness 2. Should have motorized zoom lens with automatic control of the camera, lens and lighting for an unrivalled ease of use. 3. Dark room with full slide out UV transilluminator on pull-out rails for comfortable work 4. UV safety shutoff with widely accessible door to handling gels while placing or moving gels on transilluminator table 5. Transilluminator should have Superbright technology so as to have publication quality gel image with no UV tube background noise 6. Scientific grade, zero defect CX5 camera is must with native resolution of 5 megapixels extendable to 20 megapixels 7. System should be capable of producing images of 16-bit – 65,536 grey levels 8. USB 3.0 interface for faster image transfer 9. Maximum field of view must be at least 26 x 21 cms 10. System should have 10-position filter wheel with F-590 emission filter for ethidium bromide, Gel Red, Gel Green, Lumitein, SYPRO Ruby, etc. 11. System should have option for future upgrade for blue conversion screen 12. System should be supplied with multi user licensed analysis software for image enhancement, image analysis includes molecular weight calculation, band quantification, distance calculation. 13. Software should have Apps Studio, a complete library of applications to ensure reproducibility and ease of use. 14. 3D Dynamic Scan feature to understand saturation and to rule out artifacts is a must 	1No.	
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11.	<p><u>Tender Specifications for Ice Flaking Machine</u></p> <p>Ice Flaking made of SS Body with attach control board for display Fully Automatic microprocessor control Auto cut of when the Bin is full Crusher assembly fitted with inbuilt water collection tank fitted with a float valve for regulating water supply Capacity should be around 20 kg in 24 hrs with bin capacity around 5 kg should be flake type and minimum warranty of 2 Years CFC free compressor Noiseless operation Overload protection Low water level detection</p> <p><u>Tender Specifications Horizontal Gel Electrophoresis with power supply</u></p> <ol style="list-style-type: none"> 1. A Maxi type system: should be able to analyze DNA samples by horizontal submarine electrophoresis. 2. It should be single mould cast apparatus made of acrylic or better material. 3. Should be corrosion free and leak proof and should be provided with a lid. 4. Should be able to run approx 44 samples at a time. 5. Approx Gel size : Gel size 20x20 , 20x12.5 , 20x6.25 Cm 6. Should be provided with power supply to run three units at constant voltage with an output around 350V, 350ma and 130w. 7. Time should be set in 1 min increment or continuous mode 8. System should be quoted with 2 years warranty and below accessories. 9. Company should have a office located in Delhi/Chandigarh for smooth servicing of the system 10. User list and compliance statement should be provided along with the quotation <p>Accessories GEL TRAY 25X20CM, 1/pk GEL CASTER, 1/PK COMB 24 WELL 1MM, 2/PK</p>	1No.	
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<p>12.</p>	<p>COMB 36WELL 1MM, 2/PK COMB 22 WELL 1.5MM, 2/PK COMB 44WELL 1.5MM, 2/PK COMB 24WELL 2MM, 2/PK COMB 36WELL 2MM, 2/PK GEL CLAP BOARD, 3/PK RACK FOR COMBS, 4/PK PLATINUM ELECTRODE RED & BLACK, 1 PAIR</p> <p>VERTICAL 100 LITER AUTOCLAVE</p> <ul style="list-style-type: none"> • Fully automatic, User friendly control panel, Microcomputer control system • Automatic water feeding, Fast cooling fan • Automatic sterilization according to preset time • Six sterilization modes • Waste sterilization mode and drying function • Automatic opening of the vent valve to discharge steam on completion of sterilization procedure • Stainless steel chamber, • Sterilization Temperature 105- 135°C • Sterilization Time 1-300 min • Warming Temperature 45-60°C • Warming Time 1---9999 min • Melting Temperature 60-100 • Melting Time 1-300 min • Steam Exhausting Temperature 73--104°C • Humidity Range 10%-85% RH • Working Pressure 0-0.6 Mpa • Maximum Working Pressure 0.27 Mpa • Timer Range 0 minute-6 days • Chamber Dimension 400X895 mm • Overall Dimension (L×W×H) 660×644×1180 mm • Weight 125/170 kg • Power Supply 220 V, 60 HZ • ACCESSORIES Standard accessories like Stainless steel baskets etc. • Approval CE, ISO 	<p>1No.</p>	
<p>13.</p>	<p>BOD incubator Volume (L) 270</p> <ul style="list-style-type: none"> • P.I.D microprocessor ensures the precision of temperature control under both fixed value mode and program mode. • Large blue LCD display for temperature diagram 	<p>1No.</p>	

, easy readout for program control. λ three-dimensional heating system ensures fast response, and high uniformity of $\pm 1.0^{\circ}\text{C}@37^{\circ}\text{C}$.

- Door Type Outer door with observation window, and heat resistance glass inner door: Standard configurations; a double layer tempered glass observe window in outer door, an inner glass door, forced air circulation, a fluorescent lamp, 50 mm test port and 2 grids
- Sound cooling system with CFC free refrigerant.
- Real-time electronic timer from 0 to 999 minutes.
- Password protection of all parameters against unauthorized access.
- Non-volatile memory retains pre-set parameters in case of power interruption.
- Triple safety protections for samples, incubator and environment.
- Independent device for over temperature, high current flow and electric leakage.
- Temperature Range ($^{\circ}\text{C}$) 4 to 65
- Temperature accuracy ($^{\circ}\text{C}$) 0.1 Temperature Uniformity ($^{\circ}\text{C}$) $\pm 1.0@37^{\circ}\text{C}$
- Cooling system automated, with R134a Refrigerant
- Alarm Enabled Timer (min) 0-999
- Setting Digital Display LCD
- Net/Gross Weight (kg) 130/180
- Inner Dimensions (mm) (WxDxH) 600x600x750
- Exterior Dimensions (mm) (WxDxH) 750x840x1480
- Standard Configuration Fluorescent lamp, 50 mm test port
- Options Built-in printer, UV lamp, RS-232 interface
- Electricity 220-240v 50/60 Hz
- Approval CE,ISO

14.

Binocular Microscope with LCD screen and software for measurement and microphotography

1No.

Viewing Head	Binocular or Trinocular, 30° inclined and rotatable 360°
Evenieces	HWF Plan 10x eveniece 20mm

		field of view with built-in diopter adjustment; a pointer is standard in one eyepiece; eyepieces are locked-in to prevent classroom tampering. Eyepiece accepts a Ø21mm reticle		
	Nosepiece	Reversed, quadruple, ball bearing with wide rubber grip for easy rotation		
	Objectives	Infinity Plan 4x, 10x, 40xR* (*spring-loaded) (A3000-3-LED) Infinity Plan 4x, 10x, 40xR*, 100xR oil* (*spring-loaded)		
	Condenser	N.A. 1.25 Abbe condenser with options for phase and darkfield sliders		
	Stage	Mechanical stage, 140 x 132mm with X-Y movement range of 76 x 50mm		
	Illumination	3 watt LED with variable intensity control		
	Focusing	Coaxial focusing system with an adjustable tension control and upper limit stop to prevent accidental damage to slides; all metal gears, brass fine focus gear		
	Miscellaneous	Universal power supply for 110v-240v		
	Accessories	Dust cover, immersion oil & instruction manual included		
	Dimensions	15.2(L) x 7.2(W) x 15.4(H) in. — 38.7(L) x 19.6(W) x 39.1(H) cm.		
	Warranty	5 year limited warranty for parts, labor and electronic components.		

	<p>HDS Camera & Monitor System</p>	<ul style="list-style-type: none"> • 11.6" or more HD display live video preview without any lag time or compression • HDMI & USB 2.0 output for video and images • Built-in mouse control software for HDMI viewing/recording without a computer • Simultaneous live image output to an HD monitor to a computer via USB 2.0 • On-board camera software with basic image controls: auto/manual exposure time, 3D noise reduction, 1080p video recording, magnify (ROI), rotate, flip images, side by side comparison, browse images/video playback from SD card (PC & Mac compatible) • PC imaging software for more advanced image control, annotation & analysis 		
<p>15.</p>	<p>Gel electrophoresis (Horizontal) system</p> <p>DNA Electrophoresis system Single cast mould to prevent leakage</p> <p>Mini-7x10cm gel tray UV transparent, 1.5mm and 1.0mm thick, 10x15 well comb, (2pairs) detachable electrodes, 15x15cm UV Transparent gel tray, tape free gel caster alongwith casting gates. Optional preparative combs.</p> <p>Large: 15x25cm gel tray UV transparent gel Tray, 15, x20x30well 1.5x1.0mm thick combs (2each)</p>		<p>2 Nos.</p>	

	<p>Detachable electrodes, 15x15cm UV Transparent gel tray, tape free gel caster alongwith casting gates, optional preparative combs.</p> <p>Power Supply: 5-200 V in I V step 200W maximum Type of output: constant voltage or current with automatic crossover Output terminals: 4 recessed sets in parallel Timer: 0.999 minutes Safety features: No load detection, ground leak detection, sudden load change detection, overload/short circuit detection, auto power up after power failure</p>		
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Authorised Signatory with seal/stamp

**Address:
Contact No.-
E_mail Id:**

