



## BIDHAN CHANDRA KRISHI VISWAVIDYALAYA

PO- KrishiViswavidyalaya, Mohanpur (741252), Nadia, W. B.

Ref. No.: PP/01/ Equip.e-tender/18-19

Date: 08.02.2019

Tender ID 2019\_BCKV\_214246\_1

Bid Opening Date 04-Mar-2019 12:00 PM

The Principal Investigator, “**Current status of bacterial wilt and detection of Ralstonia solanacearum free areas under potato growing districts of West Bengal**” (Project Code: 12091) funded By The Director of Agriculture, Government of West Bengal, 63, Jessop Building, Strand Road, Kolkata-700001 is inviting quotations from most competent and bonafide vendors / parties / distributors /dealers / agents / manufacturers having registration of GST for supply of following items to the **Main Campus, F/ Agriculture, Mohanpur, Nadia- 741252** as per specifications appended below.

### Terms & Conditions:

- i. Submission of quotation: the quotation shall be submitted **within** 21days from the date of issuing tender notice..
- ii. Preparation of bids: the tender should be submitted under two bids system with validity for a period of 6 (six) months.
- iii. Submission of e-tender: the tender shall be uploaded on line within 21days from the date of issuing tender notice.
- iv. Opening of the e-tender: the technical bid will be opened by the Central purchase committee, BCKV, duly consigned for this purpose. After scrutinizing, the financial offer / bid of technically qualified vendors will be opened.
- v. Price: The price of items, including imported ones, should be quoted in INR & net per unit(including taxes and duties, etc). However, University will provide valid DSIR and authorization certificate to the clearing agent, if required.
- vi. EMD: Vendors are required to pay the requisite amount (Rs.70000/-) as EMD draft as specified against their quotation. Scanned copy of the requisite draft must be uploaded as supporting document during submission of E-tender. Without EMD quotations will not be considered for technical or financial comparison. Draft must be in favour of “**Bidhan Chandra Krishi Viswavidyalaya**” payable at Kalyani (IFSC: SBIN0001082). The EMD exemption certificate must be uploaded, if any.
- vii. Quoted rates must be FOR DESTINATION (including packing, insurance and delivery charges up to the laboratory at **Main Campus, F/ Agriculture, Mohanpur, Nadia- 741252** with satisfactory installation and demonstration. The bidders must stipulate the delivery period of the same.
- viii. Payment will be made after satisfactorily performance of the items.
- ix. The vendor should have experience for supplying of different items to any Government / Semi Government organization.

### x. Important safety standards

The instrument must confirm to International EMC and Safety standards.

**xi. Warranty**

Warranty period minimum of 02 Years or more from the date of supply, as specified in the specification of the respective instruments. Manufacturer must have their own dedicated Service Centre available in India and details of Service Centre must be provided while submitting their Quotations.

**xii. Supporting documents**

- Bid papers should accompany authorization certificate from original manufacturer, trade license, GST registration, proprietary certificate (if any) etc.
- Photocopy (self attested) of the original supporting document in favour of the specification –claim for each item must have to be submitted separately, if available.
- User list along with certificate from reputed users also need to be submitted.

**xiii. Price bid of the vendors will be compared only if technical specificity as appended against each item is fulfilled. The Viswavidyalaya reserves the right to accept or reject any tender without showing reason.**

Sl.	Instrument Name	Quantity	Specifications
1a	Thermocycler	1	<p><b>Technical Specifications</b></p> <ul style="list-style-type: none"> <li>• PCR System must have a Block Format of 3x32 well with 0.2ml independent control</li> <li>• PCR System must be used by 3 different users at 3 different / same time to perform 3 different experiments.</li> <li>• System should have an interchangeable &amp; flexible block configuration which accepts four types of thermal blocks for optimization and throughput – 3x32 / 1x96 / 2x96 / 2x384</li> <li>• PCR Instrument should be Wi-Fi enabled and remote connected.</li> <li>• Should provide six separate Peltier Blocks, one can precisely set and control the temperature in each 6 blocks.</li> <li>• Each independently controlled block accommodates two separate block each accommodating 16 wells having the ability to set up PCR with a specific temperature differential of up to 5 degree centigrade between blocks.</li> <li>• Run up to 6 separate temperatures in the same plate with user defined time to determine the optimal annealing temperature</li> <li>• System should be equipped with Simulation Modes that mimic the old thermal cycler's ramp rate.</li> <li>• Minimum Block ramp rate is 6 degree C/sec</li> <li>• Minimum Sample Rate is 4.50 degree C/sec.</li> <li>• Temperature Accuracy is +/-0.25 degree C(35-99C)</li> <li>• Temperature Range is 0C to 100C.</li> <li>• Temperature Uniformity is &lt;0.5C(20sec after reaching 95C)</li> <li>• PCR Volume Range is 10-80ul.</li> <li>• Instrument Memory-USB on Board.</li> <li>• Display Interface is 8.4" color TFT LCD</li> </ul> <p><b>Warranty 3 years should provide.</b></p> <p>Should provide a 1KVA UPS with at least 1-2 Hrs power backup</p> <p>The quoted model should have 30 installation in eastern INDIA(details should provide).</p>

1b	Thermocycler	1	<p><b>Technical Specifications</b></p> <ul style="list-style-type: none"> <li>• The system should be a 96 well Thermal Cycler with 6 separate peltier blocks to provide independent temperature zones to run – six different assays with varying annealing temperatures at the same time.</li> <li>• Each block to accommodate 16 wells and having the ability to set up PCR with a specific temperature differential of up to 5 degree centigrade between blocks.</li> <li>• Run up to 6 separate temperatures in the same plate with user defined time to determine the optimal annealing temperatures.</li> <li>• On board Tm calculator facility to approximate the optimal annealing temperature.</li> <li>• The system should provide for Standard and fast run modes in a single instrument with the ability to use 0.2ml / 0.1ml PCR tubes or micro-well plates.</li> <li>• The system should support PCR volumes ranging from 10 to 80 µl</li> <li>• Temperature Range – 0-100 degree Cel</li> <li>• Max Block Rate – 3.9 degree C/sec</li> <li>• Max Sample Rate – 3.35 degree C/sec</li> <li>• Mouse or stylus free navigation capability with VGA Color touch screen allowing for easy intuitive graphical user interface programming.</li> <li>• Choice of saving the methods up to 800 to the instrument or unlimited to a USB memory stick.</li> <li>• Programmable heat lid cover from 50 degree to 105 degree centigrade for efficient PCR optimization.</li> <li>• Scalability: capability to interlink up to 11 PCR systems via single Ethernet hub.</li> <li>• Security: The system should have the ability to store methods on a memory stick.</li> <li>• Portability: The system should have a USB port to transfer methods from one machine to another.</li> <li>• System should allow easy product updates via USB port.</li> <li>• The machine should be duly certified / authorized for PCR process</li> <li>• Should provide 3 years warranty.</li> <li>• Should provide a 1KVA UPS with at least 1-2 Hrs power backup</li> </ul>
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2a	<p style="text-align: center;"><b>Mini Horizontal Electrophoresis system with power pack</b></p>	1	<p><b>Technical Specifications</b></p> <ul style="list-style-type: none"> <li>• A horizontal electrophoresis system should be able to run the gel size of 7 x 10cm &amp; 7 X 7 cm, and 7 x 10 cm; the gel tray should be supplied along with the Gel tank with safety lid.</li> <li>• The supplied gel trays should be UV proof and the trays can be directly kept on the UV Transilluminator and should have an integrated fluorescent ruler in the tray. The ruler should get illuminated on exposure to UV Light for easy and safe calculation of the band movements.</li> <li>• A system should include tape free gel casting module for leak free operations.</li> <li>• A system should include two 1.5mm combs, 8- &amp; 15-well fixed height combs each.</li> <li>• A system should have the option for adjustable height combs with comb holders.</li> <li>• Migration rate of Bromophenol Blue dye should be similar to 4.5cm/hr(at 75 V).</li> <li>• A system should have a lid with the safety banana Jacks, which breaks the circuit when the lid is running.</li> <li>• Should be provided with a bubble leveler for even gel casting.</li> <li>• The gel caster should have 3 height adjustable screws for balancing the uneven platforms for uniform gel casting.</li> <li>• The electrodes should be color coded to remove the confusion of wrong orientation.</li> <li>• The Lid should have a safety option so that the lid cannot be closed in the wrong orientation.</li> <li>• The Lid should have a integrated cables to connect it to the power pack directly.</li> <li>• A system should be capable to run precast ready agarose gels and Hand Cast gels.</li> </ul> <p><b>Basic power supply:</b></p> <ul style="list-style-type: none"> <li>• Programmable power supply should be capable to operate four electrophoresis units simultaneously for four identical runs with graphic LED display.</li> <li>• The output range should be 10-300 V , 0.4-400 mA, 1-75 W .</li> </ul>
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			<ul style="list-style-type: none"> <li>● Constant voltage, current or Power with Automatic crossover</li> <li>● Memory storage: 9 programs , 9 steps, Timer Control : 99 hr, 59 min</li> <li>● Automatic Power up after Power failure, Safety features</li> <li>● No-load detection; sudden load change detection</li> </ul> <p><b>Warranty:</b> Should provide 2 years warranty.</p>
2b	<p style="text-align: center;"><b>Mini Vertical gel apparatus with power pack</b></p>	1	<p><b><u>Technical specification</u></b></p> <ul style="list-style-type: none"> <li>● High throughput- Capable of running up to 4 mini gel (8 X 7 Cm) simultaneously.</li> <li>● Flexible- Capable of running hand cast as well as precast gel.</li> <li>● Running and casting module should be different</li> <li>● Interchangeable module- Should be capable of using blotting module to do western blotting.</li> <li>● Leak proof, tape free and easy assembly.</li> <li>● Patented Flap wing for leak proof assembly.</li> <li>● Permanently bonded spacer plates for leak proof, without agarose sealing &amp; taping casting of gels.</li> <li>● Casting frame with simple cam closure mechanism that gives precision alignment on any flat surface.</li> <li>● Side by side casting stands that allow access to both gels simultaneously.</li> <li>● Patented colored sample loading guides to prevent the skipping or repeated loading lanes.</li> <li>● Modular design can be used do western blotting by using the blotting module only.</li> <li>● Should able to run gels in 15-20 mins.</li> <li>● Should come with buffer dam.</li> <li>● It Should be Supplied with 10% Stain free Fast Acrylamide Starter Kit</li> </ul>

			<p><b>Power Supply Basic-</b></p> <ul style="list-style-type: none"> <li>• Programmable power supply should be capable to operate four electrophoresis units simultaneously for four identical runs with graphic LED display.</li> <li>• The output range should be 10-300 V , 0.4-400 mA, 1-75 W .</li> <li>• Constant voltage, current or Power with Automatic crossover</li> <li>• Memory storage: 9 programs , 9 steps, Timer Control : 99 hr, 59 min</li> <li>• Automatic Power up after Power failure, Safety features: No-load detection; sudden load change detection.</li> </ul> <p><b>Warranty:</b> Should provide 2 years warranty.</p>
3	<p><b>Gel documentation system/Chemiluminescence Imager</b></p>	1	<p><b><u>Technical specifications:</u></b></p> <ul style="list-style-type: none"> <li>• The system should be capable of the following applications/dyes – Chemiluminescence, Chemi fluorescence, Quantum dots, Silver stain, Ethidium Bromide, Coomassie Blue, Flamingo, Nano orange, Sypro ruby, Sypro orange, Sybr safe, Sybr gold, Oligreen, Pico green, Texas red, Cy2, Pro Q emerald, FITC etc.</li> <li>• System with true 16 bit CCD (not A/D) camera; pixel density of 65,536 gray levels.</li> <li>• Pixel size should be at least 4.65 x 4.65 μm or bigger.</li> <li>• Image resolution &gt; 4 megapixel.</li> <li>• Dynamic range should be at least 4 orders of magnitude.</li> <li>• Minimal dark current with maximum limit of 0.001 e-/p/s</li> <li>• The camera should have peltier based cooling of minimum -30°C Absolute or -50°C from Room Temperature.</li> <li>• Quantum efficiency at 425 nm should be 55%, at 600 nm 60% and peak quantum efficiency as 75% or better.</li> <li>• Motorized zoom lens with C-mount, f/1.2, 12-75 mm.</li> <li>• Light sources should include – Trans-UV, trans-white, epi-white and should have option for trans blue (for SYBR safe DNA application).</li> </ul>

		<ul style="list-style-type: none"> <li>• Should have preparative UV mode for DNA band excision.</li> <li>• Minimum sample size accommodated should be 28x36 cm</li> <li>• Should have Autofocus feature with pre-calibrated focus for any zoom setting or sample height.</li> <li>• System should have 100% automatic Iris adjustment for all compatible applications.</li> <li>• The system should have Dynamic image flat fielding which pre-calibrated and optimized for every reaction.</li> <li>• The instrument should be capable of imaging stain free gels and stain-free blots.</li> <li>• Should be supplied with a stain free kit for 65 gels with Temed APS</li> </ul> <p><i>System Software-</i></p> <ul style="list-style-type: none"> <li>• Software should have highest level of automation in hardware calibration, image optimization, capture, and analysis.</li> <li>• Should have automated workflow recorded in a protocol file from image capture to results thus eliminating need for training.</li> <li>• Should allow 100% repeatability of the workflow by any user and ensures optimized image data and analysis from a gel in a single uninterrupted, fast, and completely reproducible workflow.</li> <li>• Should have automated image capture driven by a selected gel or blot application.</li> <li>• Should generate the publication ready images (dpi, dimension and format) with one click export option.</li> <li>• Should generate customizable reports.</li> <li>• Should have feature for Automatic print when only imaging and printing is required.</li> <li>• Software should have easy copy/paste functionality, crop, zoom, 3D and colors.</li> <li>• Signal Accumulation Mode (SAM) for easy optimization of exposure time for chemiluminescent detection.</li> <li>• Software should be both PC and Mac compatible.</li> <li>• Software should not require any license registration with possibility to be installed in unlimited number of</li> </ul>
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			<p>computers with complete analysis features.</p> <ul style="list-style-type: none"> <li>• Should have the flexibility to specify the Publishing resolution (dpi) and publishing dimensions with one-click image export for publication.</li> <li>• It should be supplied with a Suitable PC or Laptop</li> <li>• Should have at least 50 installation PAN India</li> </ul> <p><b>Warranty:</b> Should provide two (2) years of warranty</p>
4	<b>Temp. controlled shaking incubator</b>	1	<ul style="list-style-type: none"> <li>• Incubator should be of BOD type for the storage of fungal cultures and orbital shaker at the bottom for the growth of bacterial cultures</li> <li>• Capacity: Minimum 200 L (internal)</li> <li>• Shaking Speed range: 20 to 300 rpm</li> <li>• Temperature range: 10°C - 50°C with accuracy of <math>\pm 0.5^\circ\text{C}</math></li> <li>• Shaking orbit: 1 inch (approx. 2.5cm)</li> <li>• Clamps and racks 100ml-20nos, 250ml-10nos, 500ml-10nos (minimum).</li> <li>• Racks/clumps for mounting test tubes is optionally required</li> <li>• Shelves: at least three adjustable height shelf besides orbital shaker for static incubation and storing purposes</li> <li>• Alarm: should indicate when speed deviates more than 10 rpm or temperature deviates more than 5°C from set point</li> <li>• Acceleration circuit to prevent sudden start and stop should be available</li> <li>• Timer 0.1 to 99.9 hours or continuous mode</li> <li>• Refrigeration: Hermetically sealed compressor using CFC free refrigerant</li> <li>• Power requirement: 230V/50-60Hz</li> <li>• Chamber should be illuminated with 8 Watts fluorescent lamp</li> </ul>

			<ul style="list-style-type: none"> <li>• Suitable Servo Voltage Stabilizer should be quoted</li> <li>• At least 10 installation certificates in different Institutes and Research centres should be provided</li> <li>• Warranty: Should provide 2 years warranty.</li> </ul>
5	<b>-80°C Refrigerator</b>	1	<ul style="list-style-type: none"> <li>• Stability, reliable, user-friendly and easy cleanable, should be ideal for laboratories.</li> <li>• Temperature range: - 60° C to -86° C</li> <li>• Low noise level</li> <li>• Castor wheel mounted</li> <li>• Defrost: manual or automatic</li> <li>• Single door</li> <li>• Capacity: 70-200 L</li> <li>• Model: vertical</li> <li>• At least two shelves</li> <li>• Eco-friendly, CFC/HCFC-free Nature R refrigerant</li> <li>• Efficient cyclopentane insulation</li> <li>• Integrated lock to prevent unauthorized access</li> <li>• High/low temperature alarm</li> <li>• User-friendly and maintenance-free</li> <li>• Voltage, V : 220-240</li> <li>• Frequency, Hz : 50</li> <li>• Battery backup : optional</li> <li>• At least 10 installation certificates in different Institutes and Research centres should be provided</li> <li>• Warranty: Should provide 2 years warranty.</li> </ul>
6	<b>Colony counter</b>	1	<ul style="list-style-type: none"> <li>• Display- 3 digit(0-999)LED display</li> <li>• Magnification- 2-3X</li> </ul>

			<ul style="list-style-type: none"> <li>• Petri dish- 66mm,90-150mm adjustable</li> <li>• Average-yes</li> <li>• Zero reset-Yes</li> <li>• Count back-yes</li> <li>• Illumination- LED</li> <li>• Pressure sensitivity-Adjustable</li> <li>• OUT put-USB</li> <li>• Application-Total bacteria counting and total coliform counting</li> <li>• Warranty: Should provide 2 years warranty.</li> </ul>
7	<b>Vortex</b>	1	<ul style="list-style-type: none"> <li>• Should have speed range of 0-300 rpm</li> <li>• Should have orbital type movement</li> <li>• Should have a heavymetal base with rubber feet</li> <li>• Should have variable speed control</li> <li>• Should have choice of continuous operation and touch activated operation.</li> <li>• Low speed operation should be possible in touch activated operation.</li> <li>• Should have attachments for flask, test tube and 1.5ml eppendorf tubes.</li> <li>• Should be low noise operation type.</li> <li>• Should work on 200-240 VAC 50Hz power supply</li> <li>• Warranty: Should provide 2 years warranty.</li> </ul>
8	<b>pH meter</b>	1	<ul style="list-style-type: none"> <li>• Measuring Parameter pH/<sup>0</sup>C</li> <li>• Highlights Dual display standard bench pH Range 0.00 to 14.00pH</li> <li>• Resolution 0.01pH Accuracy +0.01pH</li> <li>• Calibration Points Up to 3 Buffer Sets USA,</li> <li>• NIST Temperature Range 0 to 100<sup>0</sup>C</li> <li>• Resolution 0.1<sup>0</sup>C Accuracy +0.3<sup>0</sup>C</li> </ul>

			<ul style="list-style-type: none"> <li>• Meter Functions Temperature Compensation ATC/ MTC (0 to 100<sup>0</sup>C) Input BNC,</li> <li>• phono Power Requirements 9 V DC Adapter, 500 mA (220 VAC)</li> <li>• Warranty: Should provide 2 years warranty.</li> </ul>
9	<b>Microcentrifuge</b>	1	<ul style="list-style-type: none"> <li>• Quiet and Reliable</li> <li>• Small foot print</li> <li>• Built in power supply</li> <li>• Digital display of time &amp; RPM</li> <li>• Rotation speed 1000-10000 rpm</li> <li>• Minimum rotor capacity of 6X1.5 ml tubes, 12X0.5 and 0.2 ml tubes, should provide separate rotors if necessary</li> <li>• Warranty: Should provide 2 years warranty.</li> </ul>
10	<b>ELISA reader with low volume sample analysis</b>	1	<ul style="list-style-type: none"> <li>• A spectral scanning unit for UV-visible-NearIR wavelength range , with dedicated cuvette port (with no extra attachments ) and should able to read 96 &amp; 384 microwell plate format .</li> <li>• Should work as a standalone system without computer and also able to run with computer controlled software.</li> <li>• Analysis Software supplied should be supplied with unlimited user license.</li> <li>• Should able to read end point , kinetics , spectral scanning and also Kinetic spectral scan.</li> <li>• Instrument should able to read atleast 16 low volume samples of 2µl-10µl using low volume analysis plate in case of DNA/RNA purity &amp; concentration check in directly with standalone mode .</li> <li>• System should able to run in stand-alone mode using 7 inch or more touch screen for quick usage.</li> <li>• The instrument should have a memory of 99 inbuilt protocols in stand-alone mode</li> <li>• Communication options : USB ports to PC , wi fi dongle and data transfer devices , 1 ethernet port</li> <li>• Access data via cloud based capabilities, wired or wireless network connection.</li> <li>• Instrument is able to provide the wavelength range from 200nm to 1000nm with 1 nm steps.</li> </ul>

		<ul style="list-style-type: none"> <li>• Spectral scanning speed: 10 sec from 200 to 1000 nm with 1 nm steps per sample.</li> <li>• Performance Specifications: Bandwidth: &lt; 2.5 nm or better and Xenon flash lamp life should be for 10 million 96 well microplates.</li> <li>• The instrument should have inbuilt incubation and linear shaking options for longer kinetic assays etc.</li> <li>• Incubation temperature: from ambient +2 °C to +45 °C.</li> <li>• Spectral scanning speed 200 to 1000nm should be 10 sec .or leess.</li> <li>• Measurement speed should be 6 sec. for 96 well and 10 sec. for 384 well plate</li> <li>• The instrument should have minimum 2 USB ports, one for the easy data transfer and able to connect Wi-Fi dongle.</li> <li>• System should have Power Save function for reduced energy consumption when the instrument is ‘on’ but not in use.</li> <li>• Visualize data in both numerical mode and heat-map/virtual image of plate.</li> <li>• Multiple Software should have language versions: English, German, French, Spanish, Portuguese, Russian, Chinese and Japanese for multi students usage.</li> </ul> <p><b>Data Analysis Software :</b></p> <ul style="list-style-type: none"> <li>• Software should allow multiple absorbance /photometry steps in a single program for differentially analysis assays, including plate out option during the program to add required compounds and then continue the program for further analysis.</li> <li>• Allow multiple absorbance reading steps within the same program i.e. in case of two sets of reading before and after adding the compounds.</li> <li>• Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer).</li> <li>• Should have area selection option, for different measuring parameters for different area in a same plate.</li> <li>• Spectral scanning of all 96 samples or 384 samples should be able to view in single graph plot.</li> </ul>
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			<ul style="list-style-type: none"> <li>• Data export can be .pdf, excel ,xml and note format.</li> </ul> <p>Warranty: Should provide 2 years warranty.</p>
11	Computer and accessories	3	<p><b>Computer :</b></p> <ul style="list-style-type: none"> <li>• CPU CORE i-3 8 GEN</li> <li>• MOTHER BOARD GIGABYTE /ASUS</li> <li>• 16 GB DDR4 RAM</li> <li>• 240GB SSD + 1 TB HDD</li> <li>• LG DVD R/W</li> <li>• 18” LED MONITOR</li> <li>• USB KEYBOARD MOUSE</li> <li>• 725 VA UPS</li> <li>• OPERATING SYSTEM WIN 10 PRO(64 bit)</li> <li>• ATX CABINET</li> </ul> <p><b>Printer:</b></p> <ul style="list-style-type: none"> <li>• Modern printer with print, copy and scan function with the following minimum requirements:</li> <li>• Print speed black:Normal: Up to 18 ppm</li> <li>• First page out (ready): Black: As fast as 8.5 sec</li> <li>• Duty cycle (monthly, A4): Up to 8000 pages</li> <li>• Recommended monthly page volume: 250 to 2000</li> <li>• Print technology: Laser</li> <li>• Print quality black (best): Up to 600 x 600 dpi (1200 dpi effective)</li> <li>• Print Resolution Technologies : FastRes 600; FastRes 1200</li> <li>• Display : Dual digit numeric LED</li> <li>• Processor speed : 400 MHz</li> </ul>

			<ul style="list-style-type: none"> <li>• Connectivity, standard : Hi-Speed USB 2.0 port</li> <li>• Systems supported: Windows, Mac and Linux supported</li> <li>• Duplex printing : Manual (driver support provided)</li> <li>• Media sizes supported: A4, A5 and other standard sizes supported</li> <li>• Scanner type : Flatbed</li> <li>• Scan file format : JPEG, TIF (compressed and uncompressed), PDF, GIF, BMP</li> <li>• Scan resolution, optical : Up to 1200 dpi</li> <li>• Scan size, maximum : 216 x 297 mm</li> <li>• File Format Supported: PDF, TIF, BMP, GIF, JPG</li> <li>• Copy speed (normal): Black: Up to 18 cpm</li> <li>• Copy resolution (black text): Up to 600 x 400 dpi</li> <li>• Copy resolution (color text and graphics): Up to 600 x 400 dpi</li> <li>• Copy reduce / enlarge settings : 30 to 400%</li> <li>• Copies, maximum : Up to 99 copies</li> <li>• <b>Warranty: Should provide at least 2 years warranty.</b></li> </ul>
12	AC for Lab	3	<p>Inverter type, 1.5 T capacity, 3 star, cooling capacity –5100, compressor type –high EER rotary –BLDC, Panel display type –LED, Remote display type-LCD, Voltage –230 V, Anti bacterial filter -Silver Ion Filter, Anti-Dust Filter, Catechin Filter and Acaro Bacterium (Red)</p> <p><b>Warranty: Should provide at least 2 years warranty.</b></p>
13	-20°C Refrigerator	3	<ul style="list-style-type: none"> <li>• Capacity: 300-400L</li> <li>• Castor wheel mounted</li> <li>• CFC/HCFC free</li> <li>• At least 6 shelves + drawer</li> </ul>

		<ul style="list-style-type: none"><li>• Defrost: manual or automatic (preferred)</li><li>• Single or double door</li><li>• With locking system</li><li>• At least 10 installation certificates in different Institutes and Research centres should be provided</li><li>• <b>Warranty: Should provide at least 2 years warranty.</b></li></ul>
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