

**BIHAR AGRICULTURAL UNIVERSITY  
SABOUR-813210, (BHAGALPUR), BIHAR**

**Tender Notice No. – 29**

Sealed quotations / tenders are invited through registered / speed post / courier services, from Reputed / Registered, Supplier / Dealers / Firms / Company / Enterprises for the supply of Equipments for the Department of Plant Pathology, Bihar Agricultural College, Sabour. Sealed envelope containing full information along with supporting documents, must reach in the office of the undersigned on or before **27/03//2017 upto 4.00 P.M.** and the same will be opened on **28/03/ 2017 at 3.00 P.M.** Details are available on [www.bausabour.ac.in](http://www.bausabour.ac.in).

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# **BIHAR AGRICULTURAL UNIVERSITY**

**SABOUR, BHAGALPUR – 813 210 (BIHAR)**

[www.bausabour.ac.in](http://www.bausabour.ac.in)



## **TENDER DOCUMENT FOR**

**“Supply of Equipments for the Department of Plant Pathology, Bihar  
Agricultural College, Sabour**

**O.O. No.29/CS (HQ)/BAU, Sabour**

**EQUIPMENTS FOR THE DEPARTMENT OF PLANT PATHOLOGY**

<b>DEPARTMENT OF PLANT PATHOLOGY</b>			
<b>Sl. No.</b>	<b>Equipments name</b>	<b>Specification</b>	<b>EMD</b>
<b>1.</b>	GRADIENT PCR (Thermocycler)	<p>The PCR should have precise control over optimization, good functionality.</p> <p>The system should have good memory capacity, preferably maximum protocols with pre-loaded protocols should be available and PCR Wizards.</p> <p>Pre-programmed protocol templates for easy selection, E-mail notification</p> <p>System must have graphical touch screen facility.</p> <p>The System should have a display size 6 to 7 inches (approx) and ports 2 x USB 2.0 for PC connectivity.</p> <p>Large display with Intuitive Graphic programming; 96 well PCR plate with sample volume capacity 10-200µl</p> <p>Instrument should display remaining runtime in larger font and the status of the run; gradient temperature range 30°C to 99°C, Maximum Gradient 30°C</p> <p>Peltier technology based heating and cooling of block ensuring precise control of temperature; should be capable of testing temperatures at denaturation, annealing and extension steps.</p> <p>Should be able to test 12 different temperatures in gradient function/12 rows across the gradient should be available.</p> <p>Gradient technology should ensure identical ramp rates in both gradient and normal operation</p> <p>Block temperature control range must be 4°C to 99°C; block temperature Accuracy: ± at least 0.2°C , Ramp rate must be :4- 6 °C/s</p> <p>System should have high throughput, should have an option to upgrade more than 96 well plate</p> <p>Power Supply should be 230v, 50-60Hz.</p> <p>PCR should be license; Documents should be enclosed with technical bid.</p> <p>Minimum warranty should be 3 years</p> <p>For storage of data, a good functionality Laptop with following specification like, Pointer device: Touchpad, Power Supply: 65 W AC Adapter, Battery Backup: up to 4 hours, Screen size approx 15.6 inch, HD TN GL Flat Display, USB Port: 1 x USB 3.0, 2 x USB 2.0 and HDMI Port. Dedicated Graphics Memory Capacity 2 GB Graphic Processor, RAM Frequency: 1600 MHz, System Memory: 8 GB, Storage: HDD Capacity 1 TB, Processor: Core</p>	Rs. 10000.00

		<p>i5 (5th Gen) Intel, Warranty at least three years.</p> <p>Refrigerator for storage of PCR master mix and, associated buffer and kits: Double door system, gross capacity range 300-400 lts. Smart Inverter Compressor, Convertible box, Stabilizer free operation. Power supply 100V-290V. Freezer compartment 2 Ice Tray Double Twist Ice Bank Transparent. The refrigerator should have manufacturer warranty.</p> <p>Following Accessories for PCR must be quoted <b>optional</b> along with system: 2KVA Online UPS, Plastic wares for PCR, Routine PCR enzymes, 96 well Working Rack for PCR, Strata cooler or equivalent box.</p>	
2.	<b>LAMINAR AIRFLOW</b>	<p>The laminar working table size should be W3' x D2' x H2'</p> <p>The blower unit creates a suction pressure through the primary filter, which removes dust particles of above 10-micron size in the first stage, partly filtered air passed to the HEPA filters, where the particles or substances of 0.3micron size and above are removed. Dust-free airflow requires for various research activities.</p> <p>Cabinet suitably along with other accessories such as a ultra-violet tube to sterilize the working area before &amp; after usage, illuminating tube to provide lighting, acrylic door to protect the working area from external contamination.</p> <p>Accessories include deep / mini-Pleat HEPA, Pre filter, transparent front door, UV lamp illumination. Minimum noise level (around &lt; 65 db), Power indicator, display on hood.</p> <p>Electric supply should be AC 230V, 50/60Hz.</p> <p>The cabinet must be fitted with wheels for carry/movement or easy shifting.</p> <p>Minimum three (3) years warranty.</p> <p>Laminar should be license; documents should be enclosed with technical bid.</p>	Rs. 3000.00

**TERMS AND CONDITIONS FOR FILLING TENDER DOCUMENT ON LABORATORY EQUIPMENTS UNDER EXPERIENTIAL EQUIPMENT:**

- (a) Bid documents should be submitted in two different envelopes namely: (i) Technical (ii) Financial.
- (b) The firms are required to quote the rates & specification of each item/equipment separately and the name of item/equipment should be clearly written on the top of the envelope.
- (c) All the rates must be quoted on FOR.
- (d) In technical envelope detail specification and required documents should be enclosed.
- (i) Registration certificate of the firm.
- (ii) VAT registration certificate and VAT return copy of last quarter.
- (iii) Photocopy of PAN card
- (iv) Service Tax Registration Certificate
- (v) Must have executed similar kind of order in bulk.
- (vi) Must submit Audited balance sheet of the firm of the last three years.
- (vii) Conditional tender will not be accepted.
- (viii) University reserves the right to increase or decrease the quantity and may cancel the tender at any stage without assuring any reason thereof.
- (ix) Must submit income tax return copy of the last three years.
- (x) The bidder must quote the shortest possible time during which they will be able to supply the items at designated place decided by the University.
- (xi) No freight charges will be paid extra other than quoted price.
- (xii) Tender paper fee for each item/equipment of Rs. 500/- will have to be deposited as DD in favor of Comptroller, BAU, Sabour along with technical bid.
- (xiii) For each equipment EMD @ 10% will be charged on minimum amount of Rs. 25000/- especially for those whose EMD value has not been mentioned.
- (xiv) EMD should be deposited in favor of **Comptroller, BAU, Sabour**.
- (xv) Warranty 3 years from the date of installation will be provided.
- (xvi) PBG-The vendor shall furnish unconditional Performance Bank Guarantee issued by the nationalized bank in the shape of TDR/FDR in favour of Comptroller, BAU, Sabour @10% of the order value valid for 3 years and 2 months from the date of installation & commissioning.
- (xvii) Taxes applicable will be deducted.