



GAUHATI UNIVERSITY

Gopinath Bordoloi Nagar: Guwahati 781014: Assam: India

NIQ No.: ___ GU/G/3680R___, Dated _23-6-2017___, 2017

Corrigendum dated 3 July, 2017

Notice Inviting Quotation (NIQ)

For

Procurement and Installation of Laboratory Equipment of Different Departments

With other contents, terms and conditions remaining unchanged (as notified in the NIQ for the purpose dated 23-6-2017), the following specifications shall be applicable for the department specified.

Department of Biotechnology

Sl. No.	Name of the Equipment	Make/ specification
01	Thermocycler with gradient facility and compatible UPS (2 hours backup)	Make: Eppendorf/ Biorad Gradient temp range from 30-99°C with minimum 1°C gradient spread. Block tem. Accuracy: $\pm 0.2^\circ\text{C}$ Capacity: 96 x 0.2 ml tubes or 71 x 0.5 ml, 8 tubes strip and 96 well plates. Power supply: 240 v, 50 Hz Heating rate: 3°C/s, Cooling rate: 2°C/s System should be provided with UPS with atleast one hour power supply backup. System should be supplied with a branded laptop(preferably HP) for data documentation.
02	Gel Documentation with computer and related inbuilt software	Make: Applied Biosystem Specification: Real-time sample imaging allowing detailed sample viewing. Electrical Requirements: 100-240 V, 50/60Hz, 0.6A; Temperature: Ambient $\pm 5^\circ\text{C}$ to 40° C; Viewing surface dimensions should be : 42 mm x 83 mm - direct camera to PC image transfer. With The E-Gel® Imager White-Light Conversion Screen
03	BSL Class-II Cabinet with virus burner & fittings	Make: ThermoFisher. Specification: The equipment should be mounted on a stand with levelling feet. The exhaust plenum should be under negative pressure, hard ducted to the outside. HEPA FILTER: Face dimensions: 4ft. (L) X 2ft. (W) X 6ft . The HEPA filter should have rated efficiency of 99.97% (or better) at 0.3 microns to provide product

		<p>protection of Class100 or exceeding Class 100 requirements of Federal Standards 209E or equivalent ISO within the work area.</p> <p>Main body should be made of stainless steel.</p> <p>Table top and working zone should be made of stainless steel. Air Flow should be vertical down flow with 100% exhaust. Noise Level should be less than 65 db. Average air flow should be 90±20 fpm (down flow). UV lamp should be in working zone (40 micro watts/ square cm at 254 nm or better) and placed so that the operator cannot see directly i.e. eyes should be always protected.</p>
04	Trinocular microscope with adapter, and with Digital camera	<p>Make: Leica/ Olympus</p> <p>Specification:</p> <p>Optical system: Infinity corrected system</p> <p>Focus: Vertical stage movement 25mm or more per course stroke Vertical stage movement 1 micron or less per fine stroke; Illumination: Lamp House for LED with connecting cable having life span of 20,000 hrs or more; Condenser: Swing out condenser usable form 2X-100X; Camera & Software: Digital cooled CCD Camera 5MP, with 10bit digitization, 2048x1500. Exposure time 1.6 ms to 17.8min in 1us increments with Fire wire port. Software to capture and image processing. Additional features: The system should be upgradeable to Fluorescence attachment with multicolour 5 or more Filters positions on a turret at a time</p>
05	Student microscope (binocular compound) Bright field type	<p>Make: Olympus</p> <p>Specification:</p> <p>Stand: Stable stand with convenient location of focus controls; Viewing Body: Monocular tube, 45° inclined, 360° rotatable; Eyepiece : Wide field eyepiece 10x, FN 18mm with optional pointer, anti fungus; Objectives: EP series DIN Semi Plan Achromatic objectives 4x, 10x, 40x (spring loaded), 100x (spring loaded, oil), anti fungus.</p> <p>Stage: Mechanical stage 130 x 130mm with low drive co-axial control. Ball bearing slides with graduated scale. Illumination: Halogen 6V-20W with variable electronic regulator. Up to 2,000 hours of Halogen lamp life. Electrical : Input 220V - 240V AC, CE Approved</p>
06	Micropipette set {0.1-2.0 µl, 2-20 µl, 20-200 µl, 100-1000 µl}- one set	<p>Make: Tarsons; Autoclavable Tip Ejector & Tip Holder</p> <p>Capacity: {0.1-2.0 µl, 2-20 µl, 20-200 µl, 100-1000 µl}</p>
07	General bacteriological incubator	<p>Make: Optics tech</p> <p>Specification: Bacteriological Incubator</p> <p>Inner Chamber made is SS 304 and Outer made is M.S.; Inner Dimension: 350 x 350 x 350 mm.</p> <p>Cap: 28L, Temp. Range: Up to +5 to 70°C. Complete with Digital temp. indicator cum controller</p>

08	Autoclave (50 liter capacity)	<p>Make: Optics tech Specification: Vertical Autoclave for Sterilization of culture media, glassware, utensils instruments etc. in stem under pressure. Steam lined construction. Outer body Stainless steel M.S. Powder Coated, Inner chamber is made of Stainless Steel S.S. 304 Lid is made of Stainless Steel & Provided with radial locking systems, worked by a paddle at the bottom provided with Silicon gasket, hydraulically tested up to 40 psi.; The chamber is absolutely leak proof & can be operated at any selected point in between 5 to 20 pound per sq. inch (psi). It is provided with safety valve, pressure setting, S.s. basket & water level indicator with cord & plug. Temperature Controlled by Digital Temp. Controller for Temperature indication and setting. Low Water Level cut off device for safety of heaters. To work on 220/230V AC supply Capacity: 50 ltr.; Size: 350 x 550mm</p>
09	Mini Centrifuge	<p>Make: Eppendorf (max RPM of 13,000) With Rotor For 30x1.5/2.0 ml Tubes</p>
10	Gel Electrophoresis system including powerpacks, horizontal gel running apparatus and vertical gel running apparatus with trays, gel casters and other accessories including plates.	<p>Make: Bioworld/ Tarsons Specification: Horizontal Unit- Midi Sub System, Principal Material : Acrylic; Inner tank dimension : 215 x 141 x 55 mm No. of trays : 130 x 130 mm - 1 No. 130 x 65 mm - 2 Nos. 65 x 60 mm - 4 Nos.; No. of combs : 13 Well Analytical Acrylic; Comb 1.5 mm thick x 1 No. 8 Well Analytical Acrylic Comb 1.5 mm thick x 4 Nos. 3 Well Preparative Acrylic Comb 3 mm thick x 1 No. Vertical Unit: Gel Size : 16 X14 cms., Principal Material : Acrylic Upper buffer tank dimension : 140 x 60 x 25 mm Lower buffer tank dimension : 200 x 60 x 60 mm No. of combs : 13 Well Teflon Comb-0.5 mm 1 No. 13 Well Teflon Comb -1 mm 1 No. 13 Well Teflon Comb - 1.5 mm 1 No. Teflon Spacers : 0.5 mm Teflon Spacers 2 Nos. 1 mm Teflon Spacers 2 Nos. 1.5 mm Teflon Spacers 2 Nos. Connecting Cord : red and black (1 each). No. of Platinum electrodes : red and black (1 each)., Lid : 1 No.; Leveling screws : 3 Nos., Glass plate : Notched and Rectangular 2 sets. Gasket : Fixed, Clamp and screws: 1 set.</p>
12	Hot air oven	<p>Make: Optics tech Specification: Constriction: Double walled constriction with inside Stainless Steel Chamber having 60-70mm Glass wool</p>

		<p>insulation. Door is Fitted with Heavy chrome plated hinges & spring & roller type latch catch. Provided with adjustable steel wiremesh tray for better air circulation. Outer body is M.S. Duly powder coated. Temperature Range: Ambient to 250°C ± 2° C Temp. Controlled by Digital temperature controller along with air Circulating Fan (± 1° C)</p> <p>Heating: Heating elements are made from high grade (Kanthal ISI) Resistance wire. Heaters are fitted/ wound along all sides & Bottom</p> <p>Complete with 2 Pilot lamp cord plug pin etc.</p> <p>Power: To work on 220/230V AC supply</p> <p>Capacity: 28 Ltrs.; Size: 300 x 300 x 300mm (12" x 12" x 12")</p>
13	Vortex shaker	<p>Specification:</p> <p>Accurate speed control at 0 to 3000 rpm.</p> <p>Electronic DC motor controlled. Should be stable in all speed ranges. Minimal noise levels. Suitable for input power of 220-240V AC, 50 Hz,</p>

Registrar
Gauhati University

Date of Issue (corrigendum): 3 July, 2017

Date of Closing the NIQ (23-06-2017 and 03-07-2017): 15 July, 2017 (12 noon)

Date of Opening: 15 July, 2017 (3PM)

Copy to:

1. Rector, GU
2. Secretary to the Vice Chancellor, for information of the Vice Chancellor
3. Finance Officer, GU
4. Jt. Registrar, GU, for uploading in the GU website
5. M/s Gulf Advertising Agency, for publishing the BRIEF VERSION of this notice in the Assam Tribune in the immediate next issue, and submit the bill in triplicate for payment.
6. Dr. Kandarpa Kumar Sarma, (Institutional) Coordinator, RUSA Project Monitoring Unit, GU
7. Office Files



Registrar,
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