

**Request for Proposal (RFP) through E-TENDER platform**

Kazi Nazrul University (KNU) intends to procure Instruments/equipment for Animal Science Department at Asansol through Online eTender. The tentative quantity of the required items along with technical configuration of each items are mentioned at Annexures separately. KNU is looking for interested bidders who have experience in supplying of above type of instruments and may follow the instructions as given below for submission of their tenders under online mode

**1. General Instructions:**

Intending bidder may download the tender documents from the website <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate.

Last date of submission **08.09.2020 at 17:00hrs**. Bid opening time **10.09.2020 at 17:30 hrs**.

**2. Submission of bids:**

Both Technical bid and Financial Bid are to be submitted concurrently duly digitally signed by the Company personnel who is in the pay roll of the Company (having Authorization from the Company management) in the website <http://wbtenders.gov.in>. All papers must be submitted in English language.

**3. Time Schedules for the e-tender:**

The Time Schedule for obtaining the Bid Documents, Pre Bid meetings, the submission of bids and other documents etc. will be as per the list provided in Clause No. 10 given below.

**4. Eligibility for Quoting:**

Manufacturers or Dealers/Distributors/Agents duly authorised by the manufacturers who are able to supply the assured quantities as per requirement & have requisite Annual Average Turnover, as per clause no. 5, are only eligible for quoting. Manufacturers not having the capability to supply the required quantity solely need not apply. Failure of submission of declaration of full supply will lead to cancellation of tender. Further, vendors who were declared black listed and/or insolvent by any Govt. Concern/any Institutions in the Country for particular item or items are not eligible to participate in the current tender for that item or items.

**5. Annual Turnover Requirements:**

Vender having average annual Turn Over for last three financial years is more than Rs10 lakh in India or equivalent foreign currency in the respective foreign country for the year 2016-17, 2017-18 & 2018-19 are eligible to participate in the Tender.

**6. Submission of Tenders**

**6.1 General process of submission**

Tenders are to be submitted online through the website stated in Clause 1. All the documents uploaded by the Tender Inviting Authority form an integral part of the contract. Tenderers are required to upload all the tender documents along with the other documents, as asked for in the tender, through the above website within the stipulated date and time as given in the Tender. Tenders are to be submitted in two folders at a time, one is Technical Bid and the other is Financial Bid. The tenderer shall carefully go through the documents and prepare the required documents and upload the scanned documents of originals in Portable Document Format (PDF) to the portal in the designated locations/folders of Technical Bid. He needs to fill up the BOQ in the designated cell and upload the

same in designated location of Financial Bid. The documents uploaded are virus scanned and digitally signed using the Digital Signature Certificate (DSC). Tenderers should specially take note of all the addendum/corrigendum related to the tender till the bid submission ends. Tenderers should in general upload the latest documents as part of the tender, however, in case of failure in uploading such documents, it will be deemed that they(tenderers) have taken note of such latest documents including addendum/corrigendum, if published till the bid submission ends.

## 6.2 Technical Bid

The Technical Bid should contain scanned copies and/or declarations in the following standardised formats in two covers (folders):

### I. Technical File (Statutory Cover) containing:

1. Annexure –
  - a) Basic Information (Vide Annexure I) (to be submitted in “Annexure” folder)
  - b) Application for Tender - (Vide Annexure II) (to be submitted in “Annexure” folder)
  - c) Authorization letter - (Vide Annexure III) (to be submitted in “Annexure” folder)
  - d) Affidavit Proforma- (Vide Annexure IV) (to be submitted in “Annexure” folder)
  - e) DECLARATION ON KNU - (Vide Annexure V) (to be submitted in “Annexure” folder)
  
2. Technical details of the Items Quoted (Bidders must submit Technical specification along with Catalogue of the item quoted in “Technical Details” Folders.
  
3. Bidder must submit Audited Balance Sheet and Profit and loss Account for last 3 (three) financial year namely 2015-16, 2016-17& 2017-18 in “Accounts” folder. Note: Tenders will be summarily rejected if any item in the statutory cover is missing.

### II. My Document (Non-Statutory Cover) containing as follows

Sl No.	Category	Sub-Categor	Sub-Category Description
1	Certificates	Certificates	PAN Card of the Bidder GST Registration Certificate Trade Licence/Enlistment Certificate/ License for Electrical works (Mandatory for Electrical installation work)
2	Company Details	Company Details 1	Registration with Registrar of Companies, if any Memorandum of Articles for Limited Companies, if any

3	Credential	Credential 1	a) Copy of the purchase order for supplying Similar nature of items at least for last 2 years in an Institute of Higher Learning b) Brief User List preferably for users in West Bengal in an Institute of Higher Learning
4	Financial Information	Payment Certificate1	Income Tax Returns submitted for the Financial year 2017-18
			Income Tax Returns submitted for the Financial year 2018-19
			Income Tax Returns submitted for the Financial year 2019-20
		Payment Certificate2	GST Returns (of the last quarter) for the year 2019-20

## 6.3 Financial Bid

The Financial Bid should contain Bill of Quantities (BOQ)in one cover (folder): Proforma (Don't quote here)



4	<b>Trinocular microscope</b>	<p>Trinocular Observation Head Sidentopf observation head inclined at 300 rotatable at 3600. Diopter adjustment ring on ocular tube Interpupillary distance adjustment from 48mm to 75mm.</p> <p>Third Port for Camera Attachment Eyepieces Wide field eyepiece 10X (paired) F.O.V. 22mm.</p> <p>Objective ( infinity ) (anti-fungas coated) : Plan Achromat 4x Plan Achromat 10x Plan Achromat 40x Plan Achromat 100x oil Immersion Mechanical body Co-axial focusing system, Pre-Focusing Lever &amp; Tension Adjustment ring. Reverse angle quadruple nosepiece revolves on ball bearing.</p> <p>Reckless Hard Coated Mechanical Stage</p> <p>Size: 216mm x 150mm having low positioned co-axial controls. Coarse stroke 37.7mm/rotation, fine division travel 78mm x 54mm</p> <p>Sub stage condenser Swing out abbe marked condenser 1.25 with adjustable iris diaphragm. Illuminator Illumination incorporates with 3W LED Lamp, adjustable brightness. Lamp life not less than 50,000 hrs.</p> <p>Standard accessories</p> <p>a) LED does not require spare lamp, LED Life 1,00,000 hrs. b) Power Cable 6 ft,</p> <p>c) Cargille Immersion Oil,</p> <p>d) Dust Cover (Nylon) &amp; Cleaning Cloth. e) Blue filter</p> <p>f) Warranty Card.</p> <p>g) Packed in moulded Styrofoam.</p>	2			
5	<b>Hemometer</b>	The instrument with its supporting kit and accessories	10			
6	<b>Metalized hemocytometer with full set for RBC and WBC counting</b>	Should be provided with pipette sets for RBC and WBC counting, metal- coated counting chamber, coverslip.	10			
7	<b>Analytical Balance, Unibloc System, With Internal Calibration Facility (0.1µg to 250g)</b>	Range should be between 0.1mg to 220g, Digital display, Pan Size- 91 mm, Main Body Dimension- 210W x 340D x 325H mm, Weight 6.2 Kg, Expanded Piece counting function, Comparator Function, Formulation Mode, Windows Direct Communications Functions.	1			
8	<b>Pan balance 0.01g to 600g</b>	Range should be between 0.01g to 600g, Digital balance. Auto Calibration, Low Battery Indicator, RS-232 Interface, Inbuilt rechargeable battery, Overload Protection Design, LCD Display.	1			
9	<b>Bench top pH meter</b>	With 9157BNMD epoxy pH/ATC electrode, 916099 pH buffer & solution kit, electrode stand and universal power adapter. Measuring Parameter: pH/°C. Highlights: Dual display standard bench; pH Range must be between 0.00 to 14.00pH; Resolution should be of 0.01pH, Calibration Points Up to 3, Dimensions 23 x 18 x 6 cm; must have up to 3 point push button calibration with auto- buffer recognition.	1			

10	<b>Simple Incubator</b>	Must be Triple Walled construction. Inside should be made of Stainless Steel, AISI-304 Grade. Central wall should be made of G.I. sheet. Glass wool insulation. A glass door must be fitted inside; front panel must support neon indicator lamps, Temperature should be controlled by Microprocessor Based Digital Temperature Indicator cum Controller for precise temperature control between a few degree above ambient to 70 degree C. One Circulating fan must be fitted at the side/back for uniform temperature of the inner chamber. An air regulator should be provided on top. A thermometer Tubulature may be placed on top. Inner Chamber Size: (W*D*H) 15" * 14" * 15" or better	1			
11	<b>Hot plate Stirrer +Magnetic flee</b>	<ul style="list-style-type: none"> <li>• Rugged Aluminium die casting housing.</li> <li>• Acid &amp; Alkali resistant glass cermaic Top.</li> <li>• Reflective bright white colour glass ceramic Top</li> <li>• Should be easy to clean and maintain.</li> <li>• An energy regulator should suuply power.</li> <li>• The energy regulator should supply power to the heating element, a certain percentage of time depending on dial setting.</li> <li>• Electronic speed control should be from 100-1000 RPM.</li> </ul>	2			
12.	<b>Environmental chamber</b>	<p>Temperature Range:</p> <p>a) From 0°C to 40°C with all lamps off and chamber loaded to full capacity.</p> <p>b) From 15°C to 40°C with all the lamps on and chamber loaded to full capacity. Temperature &amp; RH Control: A sensitive Microprocessor based Thermo-Hygro controller.</p> <p>Relative Humidity Range: Above ambient and up to 95% ± 5%</p> <p>Air Circulation: Must be provided with continuous duty smooth running blower Motors. Shelves: 3 Nos. with stainless Steel adjustable trays. Illumination: Up to 4000 Lux provided by both fluorescent and incandescent lamps. Duration of Illumination: Imported Timer must be suitable for setting at 4.6.8 &amp; 12 hours interval or prolonged operation.</p> <p>Safety Device:</p> <p>1) High limit thermostat to protect overheating.</p> <p>2) Electronic Time Delay Relay Device to protect refrigeration compressor. Operating Voltage: 220/230 volts single phase for 50 Cycles, AC Mains. Size of the working chamber; 610 X 610 X 760 mm H -283 Liters (10Cft).</p>	1			
13.	<b>Laboratory Centrifuge 5250 RPM (With 6x50 ml Angle Rotor Head)</b>	<p>Should have digital Speed Indicator. Should have stepless speed regulator.</p> <p>0-99 minutes digital countdown timer.</p> <p>Should have imbalance detector with cut off.</p> <p>Should have safety lid interlock to prevent cover opening during centrifugation. Should have maximum speed of 4200 RPM.</p> <p>Should have maximum RCF of 3000. Should have maximum capacity of 400 ml in swing out Rotor.</p>	1			
14.	<b>Normal refrigerator with double door</b>	Double door Volume: 255 L	2			

15.	<b>Freezer Minus 20 Degree C 500L</b>	<p>Should be Vertical and with single door. Capacity must be 500 litres</p> <p>Temperature range: 17°C to -24°C</p> <p>Must be provided with digital temperature meter with digital temperature controller. Load should be maximum of 1000 Watts. Inner body should be made of rust-free materials.</p> <p>Minimum 5 shelves should be provided. Lock and wheel facility must be supported.</p> <p>CFC free Voltage Stabilizer must be provided with high low cut-out with time delay Warranty at least 2 years</p> <p>Automatic Defrost option is essential. Dimension (WxDxH) inches 27 x 28 x 78.</p>	1				
16.	<b>Laminar Airflow</b>	<p><b>TECHNICAL SPECIFICATIONS:</b></p> <p>Flow: Horizontal.</p> <p>Particle Retention: 0.3 Micron &amp; above.</p> <p>Retention Efficiency: 99.97%.</p> <p>Velocity: 90 RPM.</p> <p>Motor: ¼ H.P. 1440 RPM. 220 V</p> <p>Impeller: Aluminum centrifugal type.</p> <p>Noise Level: Must be less than 65 db (A) +/- 5%.</p> <p><b>GENERAL CONTRUCTION:</b></p> <p><b>MATERIAL OF CONSTRUCTION:</b></p> <p>Basic Cabinet: should be made of mild steed powder coated.</p> <p>Door &amp; Side Covers: Made from UV protected fiber glass.</p> <p>HEPA Filter: Ultra fine glass fibre paper deeply folded and separated with fine Aluminium foils.</p> <p>Unique properties of these filters are to resist mildew, to inhibit fungal and bacterial growth to withstand corrosive fumes and vapours.</p> <p>Pre-Filter: Non-woven synthetic polyester fibre with fine HDPE mesh reinforced on both sides. Specially treated with antifungal and bacterial agents to inhibit growth of microorganisms.</p> <p>Washable with water and reusable.</p> <p>Pressure Drop: 6mm WG</p> <p>Air Handling Unit: By ¼ H.P.220 V 1440 RPM Motor, both shafts should be directly fitted with</p> <p>Aluminium centrifugal types Impeller.</p> <p>Illumination: By 14</p> <p>W CFL tubes.</p> <p>U.V. Germicidal Tube: 1.5 ft feet long UV tube.</p> <p>Working Area : 3' x 2' x 2'</p>	1				

17.	<b>Autoclave</b>	<p>Boiling Chamber: Must be made of Stainless Steel 304 Grade.  Ring: Must be made of Stainless Steel 304 Grade.  Lid: Must be made of Stainless Steel 304 Grade is tightened with Swing nuts and bolts.</p> <p>Outer Jacket: Should be made of thick gauge Mild steel sheet with spray painted.  Lid lifting: Paddle lifting device.  Basket: made of Stainless Steel perforated for putting materials for testing.  Heaters: Industrial type Immersion heater.  Fittings: Pressure Gauge, Safety valve, Pressure release cock etc with plug and cable  Max. Pressure: 20 lbs/Sq.inch.  Boiler size: 50 lit capacity Automatic Pressure Control Switch (Piezostat): This function interlocking the heaters on set operable pressure thereby saving electrical energy and ensuring safety in operation.  Must have water level indicating gauge glass.  Must support digital temperature indicator cum controller, digital timer with audio visual alarm</p>		2			
18.	<b>Double distillation plant</b>	All Glass Double Distillation Unit with Borosilicate Boiler, Borosilicate Condenser & Quartz Heater, Horizontal Type. Capacity: 2.5 L with DAPS.		1			
19.	<b>Vortex</b>	<ul style="list-style-type: none"> <li>• Compact, rugged Construction.</li> <li>• Heavy Metal Base Rubber Feet Prevents Movement of The Shaker during Use.</li> <li>• Should have choice of Continuous Touch Mode.</li> <li>• Should have variable Speed Control with maximum Speed 3000 Rpm.</li> <li>• One Hand Insert, Micro Tube Insert Cup Attachment.</li> </ul>		2			
20.	<b>Microwave oven</b>	<ul style="list-style-type: none"> <li>•Volume: 21 L</li> <li>•Should be provided with Touch Key Pad (Membrane).</li> <li>•Digital timer should be provided.</li> <li>•Microwave power level must be not less than 4.</li> <li>•Must be suitable for glass apparatus.</li> </ul>		2			
21.	<b>Lab Microtome with razor</b>	Design should be as per International Standards incorporating more advance technology. With front locator feed indicator with CAM DRIVE SYSTEM for accurate feed setting from 1-50 micron each. Automatic safety device, universal knife holder with lateral movement, ball & flange type object holder. The Razor holder should be designed for better gripping with microtome & perfect holding of knife to provide wrinkle free sections. Must be complete with Razor 120 mm with back & handle, Three object holders, Dust cover, oil can, Honing stone, Instruction manual & wooden cabinet.			2		
22.	<b>SPIN-WIN</b>	<ul style="list-style-type: none"> <li>• Speed range must be between 6,000rpm/2,000g , volume 8x1.5/2.0ml tubes</li> <li>• Capacity must be 16x0.2ml tubes 2x PCR strips.</li> <li>• Dimensions (wxdxh) 4.5x5.9x4.5 in. 11.4x15x11.4 cm.</li> <li>• Weight: 1Kg</li> <li>• Electrical: Universal Voltage 100-240V, 50-60 Hz, 250W</li> </ul>			2		

23.	<b>Microcentrifuge</b>	<p>&gt; Max. RCF: 21,200 × g or better &gt; Max. speed: 15,000 rpm or better          &gt; Max. capacity: 24 × 1.5/2.0 mL &gt; Timer 10 s to 9:59 h, with continuous run function &gt;Should come with aerosol tight aluminum rotor for 24 × 1.5/2.0 mL tubes – Should have option for fixed angle rotor for 32 × PCR tubes (0.2 mL) or 4 × PCR strips &gt; Should have slow brake function: 10 ramps or better &gt; Noise level should be &lt; 56 dB(A)          &gt; Small footprint (W × D ) &lt; 25 × 36 cm &gt; Small access height &lt; 23cm          &gt; Max. power consumption should be less than 300 W &gt; Centrifuge Lid should open automatically at the end of the run &gt; Should have one push short-spin key for quick spin without of need to hold key all the while &gt; Should have 3 program buttons &gt; Should be CE certified</p>	1				
24.	<b>Bio-safety Cabinet</b>	<p>Cabinet must be Type B2.</p> <ul style="list-style-type: none"> <li>• Should maintain minimum average inflow velocity of 100 fpm through the work area access openings.</li> <li>• Must be able to exhaust all inflow and down flow air to the atmosphere after filtration through HEPA filter without recirculation in the cabinet or return to the laboratory room air.</li> <li>• Material of Construction should be of Stainless steel.</li> <li>• Pre-Filter – 10 microns</li> <li>• HEPA Filter-0.3 microns.</li> <li>• Must be provided with Fluorescent lamp and UV- light.</li> <li>• Size should be of 3 Feet and Inner dimension must be 900 x 610 x 610 mm (L x D x H); Overall dimension: 1100 x850 x 2250 mm (L x Dx H)</li> </ul> <p>Requirements for PRE-FILTERS:</p> <ul style="list-style-type: none"> <li>• Size: 800 x 150 x 50 mm – 1 no (3 feet unit).</li> <li>• Type: Flange type.</li> <li>• Media: Synthetic, Non-oven Polyester fibre, Washable.</li> <li>• Casing: M.S. Powder coated.</li> <li>• Gasket: Neoprene.</li> <li>• Retention: 10 Micron.</li> <li>• Efficiency: 90%.</li> <li>• Pressure drop: 6 to 8 mm</li> </ul>	1				



25.	<b>Refrigerated centrifuge</b>	<p>Capacity must be of 4 Lit. • System should maintain temperature range of –10°C to 40°C. • Maximum speed for fixed angle rotors should be 14,000 1 rpm and RCF 22,000 x g force, for swing out rotors maximum speed 5000 rpm and RCF 5,200x g force</p> <ul style="list-style-type: none"> <li>• System must be supported with user- friendly operation; key panel with provision to set speed RPM / RCF, radius correction values that can be changed during centrifugation.</li> <li>• System must be supported with fast temperature function for rapid cooling of centrifuge and stand-by cooling options.</li> <li>• The centrifuge should be equipped with automatic rotor recognition and imbalance detection for maximum operational safety.</li> <li>• Timer – 10 s to 99 h with continuous run function and short spin.</li> <li>• Noise level at max speed should be less than 57 dB(A) for quiet operation in work place.</li> <li>• System should have automatic shut off function of the compressor to reduce energy consumption and to extend compressor life when not in use for long hours</li> <li>• Rotors should be metallic and must be fully autoclavable at 121°C</li> <li>• Centrifuge soft-touch lid closure, and low opening height for stress-free lid locking,</li> <li>• Noise level: &lt;55dBa</li> <li>• Should be able to run both tube and plates at a time. Should be supplied with suitable voltage stabilizer.</li> </ul> <p>Rotors: Swing out rotor of 4x 1L universal bucket with adapters to fit tube/bottle/plate to run max maximum of 4,500rpm and 4,400 x g. Should provide adapters to run 56 x5ml/15ml conical tube, 28 x 50ml conical tube and 4 plates. Two adjacent buckets should withstand weight different of 1kg during run.</p> <ul style="list-style-type: none"> <li>• Must be provided with fixed angle rotor for 6x50ml tube with adapter for 30ml oak ridge tube to run max speed 20,000 × g (12,000 rpm). Rotor and lid should be anodized metallic but light in weight &lt; 3.3kg.</li> <li>• Fixed angle rotor for 30 x 1.5/2.0 mL tubes to run max. speed: 20,900 × g (max. 13,800 rpm) should also be provided. Rotor should be anodized metallic with faster lid locking facility.</li> </ul>	1				
26.	<b>Mili Q Ultra-pure system</b>	<p>Resistivity at 25 °C1 18.2 MΩ•cm Particulates (size &gt; 0.22 μm)3 &lt; 1 particulate/mL Flow rate up to 2L/min</p>	1				

27.	<b>Manual Rotary Microtome</b>	<p>System will be provided with X/Y specimen orientation system and fast exchange system for specimen clamps, user selectable coarse feed wheel turn direction, retraction on/off function, two mechanical trim steps, blade holder for disposable blades and standard specimen clamp. System will be provided with counter- balanced, smooth-running hand wheel. Distortion-resistant base plates are also provided with the system. There will be ergonomically designed hand wheel grip. Additional Points MANDATORY: Personalized User Selectable Coarse Feed wheel turn direction, either Clockwise or Anti-Clockwise to suit user's preference Maintenance-free vertical cross-roller guides and horizontal specimen feed via precision cylinder guide system.</p> <p>Section thickness setting range 0.5–60 µm; Section thickness selection from 0.5–2 µm in 0.5 µm-steps, from 2–10 µm in 1 µm-steps, from 10–20 µm in 2 µm-steps, from 20–60 µm in 5 µm-steps Total horizontal specimen feed 25 mm Vertical specimen stroke 59 mm Specimen retraction MUST BE ON/OFF as per user choice Should have more than 10-15 installations in East India, with 50% being in reputed Govt Institutions Fully Complied: Instrument Model: Leica RM2125RTS</p> <p>Imported Model with both European CE &amp; USFDA Approved along with ISO 9001 &amp; 13485 International Guidelines Should have proven &amp; dedicated Service Support only for East India with a team of factory-trained Company service engineers (at least 3 persons) headquartered in Kolkata, for prompt support.</p>		1			
28.	<b>Multichannel Pipette (0.5-10µl; 10-100µl; 30-300 µl)</b>	<ul style="list-style-type: none"> <li>• 12 microtip-slot based multichannel adjusted with maximum 1 ml volume.</li> <li>• One handed volume adjustment to avoid unintentional adjustment.</li> <li>• Fully autoclavable</li> <li>• Light weight</li> <li>• Must be able to regulate the piston movement speed to pipette higher viscous (i.e glycerol) and lower viscous (i.e chloroform).</li> <li>• Calibration seal for optimal GLP specifications.</li> <li>• Chemical resistance.</li> <li>• Must have spring loaded tip cone.</li> <li>• Piston should be made of organic polymer and resistant to acids, bases, dyes, sunlight etc.</li> <li>• 4-digit magnifying display</li> <li>• Multichannel pipettes must have facility to adjust its channel according to the wells of plate.</li> <li>• Should have NABL accredited lab facility for providing calibration service on demand.</li> </ul>		1			

29.	<b>Upright Fluorescence microscope</b>	<p>Microscope Body: Automated microscope for brightfield, darkfield, phase contrast and fluorescence applications with LED illumination for transmitted light with minimum lamp life of 50000 hrs or better. Should have integrated compensation mechanism to eliminate any focus drift during long term observation to ensure consistent sharp image. Built in coarse and fine focussing knobs with different focussing functions. Automated objective nosepiece with minimum 6 positions or better</p> <ul style="list-style-type: none"> <li>Automated Switchable condenser for brightfield and phase contrast application</li> <li>Objectives: Fluorescence grade objectives suitable for above mentioned brightfield techniques and fluorescence 10x/0.25, 20x/0.35, 40x/0.75 and 100x/1.3 (oil immersion).</li> <li>Eye piece: Pair of eye piece 10x with 22 mm field of view and dioptre adjustment for both eyes. condenser for condenser for switchable condenser for brightfield and phase contrast application</li> <li>Objectives: Fluorescence grade objectives suitable for above mentioned brightfield techniques and fluorescence 10x/0.25, 20x/0.35, 40x/0.75 and 100x/1.3 (oil immersion). (monochrome &amp; color) Peltier cooled scientific CCD/CMOS 2/3" chip camera with 7 MP resolution and image acquisition of 18 fps or better in both modes. Should include 0.63x/0.7x Cmount adaptor.</li> <li>Software: Licensed imaging software for Fluorescence Multichannel acquisition, Image Overlay image analysis, Interactive measurement, Intensity measurements, counting, line profile, spatial measurements such as length, width, area, perimeter etc. Multi time movie, Timelapse. Software should control all the automated components including microscope and light source.</li> <li>Data Processing Unit: Branded PC with i5/i7 processor, minimum 8 GB RAM, NVIDIA graphics card with 1 GB RAM, 500GB SATA HDD or higher, Original Windows 10 OS, DVD RW, at least 24" monitor, keyboard and optical mouse. Minimum 5 Installation report of similar model should be provided</li> <li>Warranty 3 Years</li> </ul>	1				
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30.	<b>Inverted Optical Microscope</b>	<ul style="list-style-type: none"> <li>•Specification Inverted microscope frame with minimum 5 watt LED to maintain constant color temperature through all stages of intensity with auto cut off function to save the energy</li> <li>• Metal body with scratch resistance stages, Universal Slide holders and object guide must be supplied with the microscope</li> <li>• Long working distance condenser 80 mm for the larger volume cell container must be quoted, longer working distance will be given as preference</li> <li>• Objectives for microscope with Integrated phase slider</li> <li>• 4X Plan Objective</li> <li>• 10X Phase Objective NA 0.2</li> <li>• 20X Phase Objective NA 0.3</li> <li>• 40X Phase Objective NA 0.5</li> <li>• 4 Position Objective Holder</li> <li>• 10X Eyepiece with FN 20</li> <li>• Camera Attachment: 5 Megapixel HD camera frame rate 30fps with, Pixel size 2.35X3.35 μm , sensor grade CMOS, Gain:1X-12X, Color Depth 24 bit</li> <li>• Image capture and analysis software, Basic analysis like linear measurement and Area</li> <li>• The Microscope, camera and software should be supplied from the same manufacturer for better compatibility.</li> <li>• Computer System : CPU core i5, RAM -8 GB, HDD-1TB, USB2.00, USB 3.00, OS, WIN7/10 prof 64 bit, external graphics card 1GB, widescreen 21 " or higher and 1 KVA offline UPS</li> <li>• Minimum 5 Installation report of similar model in Govt Institution should be provided</li> <li>• Warranty 3 years</li> </ul>		1			
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31.	<b>BOD shaker incubator</b>	<ul style="list-style-type: none"> <li>• Size of BOD Incubation Chamber : 21" x 21" x 24"</li> <li>• Temperature Range: 5°C to 60°C.</li> <li>• Temperature Control: Should have microprocessor based digital temperature indicator cum controller</li> <li>• Accuracy of control: <math>\pm 0.5^{\circ}\text{C}</math> to <math>1^{\circ}\text{C}</math>.</li> <li>• Air Circulation: Provided with a smooth running continuous duty Blower fan to operate alternatively ensuring prolonged operational life.</li> <li>• Shaking Speed: 30 to 150 RPM.</li> <li>• Shaking Motor: DC Drive Motor.</li> <li>• Speed Controlled by: Stepless speed regulator.</li> <li>• Shaking Tray Size: 18" x 18" and can accommodate 25 nos of 250 ml Conical flask</li> <li>• Shaking Tray: One No.</li> <li>• Static Tray: One no. perforated stainless steel tray.</li> <li>• Safety Device: Must be provided with a built-in delay relay system in the control circuit to safeguard the refrigeration compressor against abrupt starting in the event of restoration of power after load shedding.</li> <li>• Operating Voltage: 220/230 V. AC. Single Phase, 50 Hz.</li> </ul>		1			
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32.	<b>Ultrasonicator</b>	<ul style="list-style-type: none"> <li>• Sound Proof enclosure.</li> <li>• Should be microprocessor controlled and completely programmable.</li> <li>• Digital LCD Display with Time setting</li> <li>• Temperature Indicator and Controller</li> <li>• Auto tuning for convenience and optimal processing efficiency.</li> <li>• Variable Power Output control</li> <li>• Auto frequency chasing</li> <li>• Output amplitude 0-100% adjustment.</li> <li>• Frequency: 20 KHz</li> <li>• Power: 250 W</li> <li>• Probe Dia: 6mm(1/4")/9.5 mm(3/8") (Titanium Alloy)Standard</li> <li>• Display: LCD</li> <li>• Temperature Range: 0-99°C</li> <li>• Timer (Selectable): Required</li> <li>• Overload protection : Required</li> <li>• Power Supply: AC 220V/50 Hz.</li> </ul>		1			
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35.	<b>10 KV UPS</b>	<ul style="list-style-type: none"> <li>• Capacity – 10 KVA, Rated Power –8500 W</li> <li>• Should support Fifteen battery and safe for sensitive appliances with Sine wave out-put</li> <li>• Inverter must be able run heavy loads like Centrifuge, PCR etc., (please check the</li> <li>• Auto over-load handling capacity</li> <li>• Friendly installation and maintenance</li> <li>• MCB for protection from Input mains</li> <li>• Bypass switch for supplying output directly from grid.</li> <li>• Noiseless Operations with the help of low harmonic distortion</li> <li>• Intuitive Display to easily understand status of mains availability, battery status, etc.</li> <li>• Comprehensive protection against short-circuit, reverse polarity, battery over-charge, deep- discharge etc.</li> </ul>		1			
33.	<b>Vacuum incubator with vacuum pump</b>	<p>Temp. Range: Up to 150°C Temp.  Control &amp; Display: A Sensitive Electronic Thermometer Controller cum Indicator with Digital Display having An accuracy of <math>\pm 1^{\circ}\text{C}</math> or better.  No. of trays: Two nos  Vacuum gauge: Bourdon tube type Gasket: Silicon rubber Insulation: Glass wool  Operable on: 220/230 Volts, Single Phase, AC mains.  Chamber Dimension: Inner size- 10" Dia x 12" Deep  Complete with Direct Driven Vacuum Pump, Magnetic Isolation Cum Air Admittance Valve and Vacuum Rubber Tube.</p>		2			
34.	<b>ICE Flake Machine</b>	<ul style="list-style-type: none"> <li>• Fully automatic microprocessor control.</li> <li>• Stainless Steel Construction.</li> <li>• Continuous Ice Flakes Output.</li> <li>• CFE free Compressor</li> <li>• Low water level Indication</li> <li>• Overload protection</li> <li>• Noiseless operation</li> <li>• Compact Design and low maintenance</li> <li>• Plastic Storage Bin: 10 lit</li> <li>• Ambient temperature: Below 25°C for optimum working</li> <li>• Power Supply: AC 220V/50Hz</li> <li>o Capacity: 30 Kg</li> </ul>		1			



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7. The tenderers are not required to submit hard copies of Technical File (Statutory) or My documents (Non-Statutory). Submission of hard copy of Financial Bid is strictly prohibited and only be submitted through online through NIC portal.

## 8. Evaluation of the tenders

During the tender evaluation process, the “Technical Bid” will be opened first. Those Bidders who have qualified in respect of the essential & other requirements in “Technical Bid” will be identified and their financial bid will be opened. The financial bid of those Tenderer failing to meet the technical & other requirements laid down in the tender will not be opened and be rejected. The Tenderer offering the item found suitable and as per the tender specifications will only be selected. Final selection of the lowest bidder in respect of Financial Bid is subject to

further verification. The Financial Bids of only those tenderers who have been considered as Technically Qualified will be opened. If found suitable in the context of above pre-qualification etc, the Tenderer quoting the lowest rate will be considered as successful.

## 9. TERMS & CONDITIONS REGARDING PURCHASE POLICY OF TENDERING AUTHORITY:

### 9.1 Bid Information:

- Partial Quotation within the same item will not be accepted and tender will be liable for cancellation.
- All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price but should be indicated separately in the price bid.
- The rate quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- Bidder must follow the instruction for filling up BOQ as per Clause 6.3.

9.2 Evaluation of Quotation: The Purchaser will evaluate and compare the quotations determined to be substantially responsive stage wise. Firstly, Technical Bid will be evaluated based on and thereafter Price Bid for technically qualified bidders will be evaluated for selection of vender.

9.3 Award of Contract: The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive both technically and commercially. Purchaser reserves the right to reject any or all the tender, wholly or partly, without assigning any reason thereof and shall not be bound to accept the lowest bid.

9.4 Warranty: The vendor shall be fully responsible for onsite warranty for all equipment, accessories etc. including spares and services as mentioned in Item Specifications (Clause 6.3). In all respect, warranty period will start from the date of installation Report. Bidder must upload Warranty confirmation certificate showing the warranty period as per the above clause in “TECHNICAL DETAILS” folder.



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9.5 Adequate infrastructural facility: The bidder/manufacturer should have registered establishment set up in Kolkata/Asansol or its adjacent locality. In addition, the bidder/manufacturer must have authorised service centre with adequate numbers of sound service personnel. Representatives from both establishment and service centre must be made available within 24 hours after making calls from the Kazi Nazrul University. Documents in support of establishment and service centre with pay roll sheet must be uploaded in “TECHNICAL DETAILS” folder.

**9.6 Training Facility:** User training regarding the operation of the equipment shall be arranged by the supplier/vendor at no extra cost if required.

9.7 Technical Bid must be submitted along with the copies of OEM license or authorization from the manufacturer. Document in support of the same must be uploaded by the bidder in “TECHNICAL DETAILS” folder. If the bidder is not the manufacturer/brand owner, proper manufacturer’s/brand’s authorization must be uploaded in the said folder. Detail technical catalogue must be uploaded with the bid. If catalogue (with technical detail), OEM license or authorization from the manufacturer is not submitted, the bid may be rejected.

**9.8 Credentials:** Documents of previous experience of the job, at least 2 years, must be submitted along with the tender.

**9.9 DSIR Certification:** Kazi Nazrul University does not possess the privilege for availing the facility of procuring items at Concessional Customs Duty and without incurring any excise duty as per DSIR certification at present but applied before authority.

9.10 Make & Model: Bidder must mention Make and Model in the Information Sheet as given vide Annexure-I and must send the product details/catalogue/brochure in the “Technical Details” folder.

9.11 Time Schedule: The supply and installation work must be completed within 15 days from the date of receipt of the purchase order.

9.12 Validity of offer: A bidder should spell out in the tender that it shall remain valid for a minimum period of 12 months from the date of opening of the tender and during this period, the bidder shall not be entitled to revoke or cancel its offer.

**9.13 Place of delivery:** Dean (Science), Laboratory Building, Kazi Nazrul University, Asansol. Nazrul Road, Kalla More, P.O. – Kalla C. H. Asansol – 713340.

**9.14 Payment Schedule:** Payment be made after delivery and installation of the items.

**9.15 Performance Security:** Successful bidder should deposit Performance Security money equivalent to the 10% of the order value in the form of DD/Bank Guarantee immediately before issuing purchase order from the University. Such security will be refunded after





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completion of the warranty period in normal case without any accrued interest. University may forfeit the Security Money in the event of the following circumstances:

- i) Selected bidder withdraws the bid before expiry of its validity but after receipt of the Purchase Order.
- ii) Selected bidder does not accept the order after issuing the same or fails to enter into a contract within validity period of offer.
- iii) Selected bidder fails to supply the items within the scheduled time as specified in the Purchase Order
- iv) If before expiry of the warranty period, the supplied items break down or do not function satisfactorily due to the cause related with the item itself or for its installation and not for any reason caused by the University Authority and the supplier denies to take the responsibility to make the supplied items in order.
- v) In case of any false submission /statement by the bidder
- vi) In case of any refusal to abide by terms and conditions or refusal to enter into a written agreement as per prefixed terms and conditions

**9.16 Quantity Changeability:** Quantity as stated in the tender document may subject to change at the time of issuing purchase order due to the fund crunch or for other valid reasons.

**9.17 Requisite Documents to be submitted:** Bidder must have adequate documents relating to Trade License and updated returns for Income Tax, GST, Audited Statement of Accounts and other documents as sought for under Clause 6.2.II of this tender.

**9.18 Turnover Criterion:** Bidder must have average annual turnover of more than Rs.10 lakh in last three financial year ending 2017-18.

**9.19 Disposal of Disputes:** In case of any dispute, the University's decision will be treated as the final and conclusive. All legal actions are subject to Kolkata jurisdiction only.

**9.20** The bidders are required to quote for each item separately in terms of basic price and all other charges. Prices can be quoted in Indian Currency only.

### **Discretion of the University:**

**9.21** University may take decision about non-purchase of the said equipment even after selection of vendor due to its fund constraints.

**9.22** University may seek documents from the bidder in addition to the scanned documents sent by them at the time of uploading technical bid for verification and evaluation of tender.



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9.23 University reserves the right to relax any clause as stated hereinabove for selection of responsive vender.

### 10. Dates & Information:

Sl. No	Activities	Date & Time
1	Date of uploading in the e-tender portal of NIC : <a href="https://wbtenders.gov.in">https://wbtenders.gov.in</a>	13.08.2020
2	Documents download (online)	13.08.2020 at 16:30 hrs.
3	Bid Submission Start Date (on line)	17.08.2020 at 16:30 hrs.
4	Bid Submission Closing Date (Online)	08.09.2020 at 17:00 hrs.
5	Bid Opening Date (Online) – Technical Bid	10.09.2020 at 17:30 hrs.
6	Date of uploading list for technically qualified bidder (online)	To be notified
	Date of opening of Financial Bid	To be notified
8	Date of uploading of list of bidders along with the approved Rate	To be notified
9	Pre bid meeting date at Asansol	17.08.2020 at 16:00hrs ( Online Mode,) For pre bid quarry mail to <a href="mailto:hod.animalscience@knu.ac.in">hod.animalscience@knu.ac.in</a> in till 17.08.2020 (12:00hrs). Meeting link will be sent directly to the

11. Opening the financial bid as per schedule will BE NOTIFIED LATER ON.

Financial bid can be seen & accessed by the bidder through the NIC Portal on line after opening of financial bid on line. No objections raised by any Bidder in this respect will be entertained by the University. No informal tender will be entertained in the Bid further.

12. During the scrutiny, if it comes to the notice to tender inviting authority that the credential or any other paper found incorrect/ manufactured/ fabricated, that bidder would not allowed to participate in the tender and that application will be rejected outright without any prejudice.

13. The Tender Selection Committee reserves to right to cancel the tender due to unavoidable Circumstances and no claim in this respect will be entertained.

(REGISTRAR)



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**Annexure I**  
**FURNISHING BASIC INFORMATION-**  
**(To be furnished in the Company's official letter pad)**

1	Name of the Bidder	
2	Address for Communication	
3	Contact Number(s)	
4	E-mail ID	
5	Trade License No. (Please enclose copy of Trade License)	
6	PAN(Please enclose copy of PAN Card)	
7	GST No.(Please enclose copy of GST)	
8	Do you have previous experience for supplying similar nature of Items at Educational Institute of Higher Learning (Please enclose copy of Purchase order & user list, if yes)	Yes/No (Please put tick mark)
9	Annual Turnover as per Audited P/L ACCOUNTS & BALANCE SHEET	2016 – 17: Rs..... 2017 – 18: Rs..... 2018 – 19: Rs.....  Average Annual Turnover: Rs.....
10	Status of the bidder(Please enclose copy authenticating your status)	



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**Annexure II**  
**APPLICATION FOR TENDER**

(To be furnished in the Company's official letter pad with full address and contact no, E mail address etc)

To  
Registrar  
Kazi Nazrul University  
Asansol

Sub: .....for the Supply of .....

Ref: - \_\_\_\_\_ No .....dated.....

Sir,

Having examined the pre-qualification & other documents published in the ....., I /we hereby submit all the necessary information and relevant documents for evaluation:

1. That the application is made by me / us on behalf of .....in the capacity ..... duly authorized to submit the offer. The authorization letter from the Company is attached in Annexure II.
2. We accept the terms and conditions as laid down in the tender document vide Clause 9 and declare that we shall abide by it throughout the tender period including its extensions, if any.
3. We have gone through the Tender Document thoroughly and quoted the tendered items keeping in mind all sorts of information as furnished in the tender document including Corrigendum/Addendum as published from time to time
4. We are offering rate for the following item /items and assured supply to the Kazi Nazrul University
5. In the event of being selected, I will make the supply within the stipulated period excepting the condition which is beyond our control.

Date:-

Signature of applicant including title and capacity in which application is made.

Contact no:

E-mail address:

Postal Address:



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**Annexure III**

**(Authorization letter in favour of the applicant (other than Managing Director/  
Proprietor/Partner) from the competent authority.)**

**FORMAT**

**(To be furnished in the Company's official letter pad with full address and contact no,  
E mail  
Address etc.)**

**(TO WHOM IT MAY CONCERN)**

This is to certify that

Mr.....(Name), Employee of  
this Organisation as..... (Official Designation) is  
hereby authorised to submit tender online, Vide .....  
No....., Dated ..... on behalf of the  
Organisation.

Signature of the competent authority with Seal.....(Signature of  
the  
Authorised Person)

Signature of Mr.....is hereby  
attested.

Signature of the competent authority with Seal



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**ANNEXURE\_IV**

**AFFIDAFIT FORMAT**

**(To be furnished in Non – Judicial Stamp paper of appropriate value duly notarized)**

I, Sri/Smt.....The Managing Director/Proprietor  
(etc.) of the Firm. .... (Name of the firm) At  
(address).....Do hereby solemnly affirm  
and declare as follows:

1. That I have not ever been convicted of any offence making myself liable to be disqualified to supply of Chemicals / Equipments/other items to any Govt. or Govt. undertaking Organization /Institution in the State of West Bengal or other State or States.
2. That no case is pending against me or against my firm in any criminal court of law to supply of Laboratory Equipment and other items to the Govt. or Govt. undertaking Organization/ Institution in the State of West Bengal or other State or States (If any case is pending, state the details).
3. That, I also declare that if any information subsequently found incorrect or false will it automatically render the tender submitted by me cancelled and make me liable for penal/legal action as per law of the country.
4. That my concern has not yet been declared bankrupt by any banking or money lending agency duly licensed by RBI nor has it been considered doubtful by any Government concern so far as the solvency of the organisation is concerned.
5. That I do further affirm that the statements made by me in this tender are true to the best of my knowledge and belief and all the documents attached are genuine & correct.

Deponent ( ).





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**ANNEXURE V**

**(Affidavit Proforma)**

(To be furnished in Non – Judicial Stamp paper of appropriate value duly notarized)  
DECLARATION ON KNU

I, the undersigned, do hereby declare that on behalf of my organization, I will comply all the formalities that are required to be complied as per KNU and I will observe all clauses of the KNU (including Terms & conditions). In case of any non-observance of any clause(s), we will be bound to follow the decisions taken by the Kazi Nazrul University for taking decision related with the tender.

DATE  
PLACE

Full signature of the Person

