



# Office of the Registrar Kazi Nazrul University

Nazrul Road, Kalla Bypass More, P.O. – Kalla (C. H.)  
Asansol – 713340, Dist. – Paschim Burdwan, West Bengal

**Ref. No.: KNU/R/ANMSC/NIT-04/636/2020**

**Date: 12.08.2020**

## **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 e-Tender. 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 **05.09.2020 at 12hrs.**

**Bid opening time 07.09.2020 at 12 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 2017-18, 2018-19 & 2019-20 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



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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 –

- Basic Information (Vide Annexure I) (to be submitted in “Annexure” folder)
- Application for Tender - (Vide Annexure II) (to be submitted in “Annexure” folder)
- Authorization letter - (Vide Annexure III) (to be submitted in “Annexure” folder)
- Affidavit Proforma- (Vide Annexure IV) (to be submitted in “Annexure” folder)
- 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 2017-18, 2018-19 & 2019-20 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-Category	Sub-Category Description
1	Certificates	Certificates	PAN Card of the Bidder
			GST Registration Certificate
2	Company Details	Company Details 1	Trade Licence/Enlistment Certificate/ License for Electrical works (Mandatory for Electrical installation work)
			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 Certificate 1	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 Certificate 2	GST Returns (of the last quarter) for the year 2019 - 20		



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### 6.3 Financial Bid

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

Sl. No	Items	Specification	Rate( INR ) -A	Quantity - B	Total ( INR ) = A*B	GST amount @ ...% - C	Amount(INR ) - D= {A*B+(A*B*C)}
1.	UV-VIS spectro photometer (double beam)	<ul style="list-style-type: none"><li>•Optical design Double-beam with sample and reference cuvette positions with Czerny-Turner Monochromator</li><li>•Spectral Bandwidth-Should be fixed 1 nm or better</li><li>•Light Source-Xenon Flash Lamp with three-year warranty</li><li>•Detector: Dual Silicon Photodiodes</li><li>•Wavelength range 190–1100 nm or better</li><li>•Wavelength Accuracy: <math>\pm 0.2</math> nm (541.9, 546.1 nm mercury lines) <math>\pm 0.5</math> nm (full range 190–1100 nm)</li><li>•Wavelength Repeatability: <math>\leq 0.05</math> nm</li><li>•Scanning Speed: <math>&lt; 1</math> to 6000 nm/min or better</li><li>•Photometric Range <math>&gt; 3.5</math> A or better</li><li>•Photometric Display Range -0.3 to 4.0 A or better</li><li>1</li><li>•Photometric Noise 0A: <math>\leq 0.00015</math> A 1A: <math>\leq 0.00050</math> A 2A: <math>\leq 0.00080</math> A</li><li>•Stray Light KCl, 198 nm: <math>\leq 1\%</math> ; NaI, 220 nm: <math>\leq 0.05\%</math> ; NaNO<sub>2</sub>, 340 nm: <math>&lt; 0.05\%</math></li><li>•Baseline Flatness <math>\pm 0.0010</math> A or better</li><li>•A pair of standard quartz cuvette to be quoted.</li><li>•Suitable PC and online UPS should be quoted</li><li>Slew Speed: 25,000 nm/min or better</li><li>Minimum Data Resolution: 0.1 nm</li><li>Scan Ordinate Modes: Absorbance, % Transmittance, % Kubelka-Munk, Log (1/R), Log (Abs), Abs*Factor, Intensity</li></ul>		1			
2.	Vertical gel+minitrans blot module+powerpack	<p>High through put- Capable of running Upto 4 mini gel(8 X7 Cm) simultaneously. Should be supplied with the capability of running minimum of two gels. Should be flexible, capable of running hand cast as well as precast gel.</p> <p>Running and casting module should be different. Interchangeable module-Should be capable of using blotting module to do western blotting. Leak proof, tape free and easy assembly. Permanently bonded spacer plates for leak proof, without agarose sealing &amp; taping casting of gels. Casting frame with Simple cam closure mechanism that gives precision Alignment on any flat surface. Side by side casting stands that allow access to both gels simultaneously. Patented colored sample</p>		1			

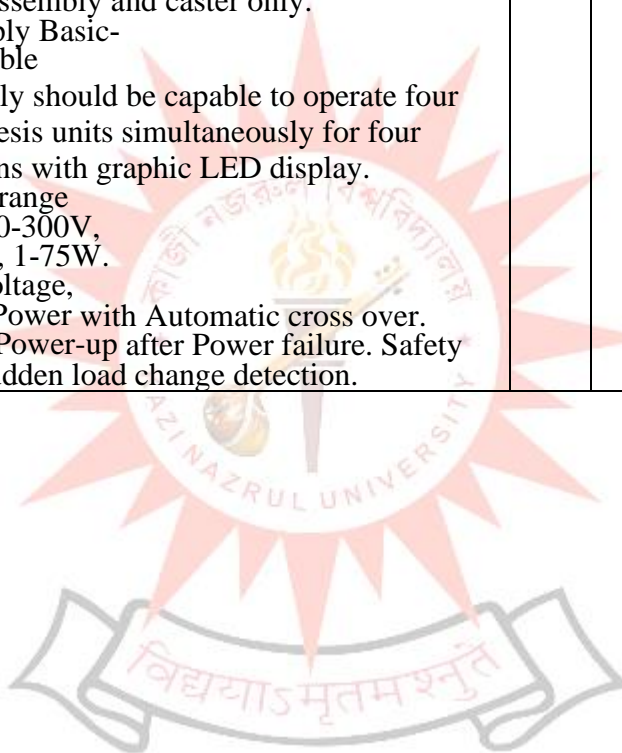


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	<p>loading Guides to prevent the Skipping or repeated loading lanes. Modular design can be used to do western blotting by using the blotting module only.</p> <p>Blotting Module: It should be compatible with small SDS page Unit. It should be capable of doing the western blotting of the mini gels. It should be able to Run two blots simultaneously. Color coded cassettes for proper orientation of gels and membranes. System is able to transfer two mini gels. Ice free cooling unit for proper temperature control for western blotting. Modular design can be used to do electrophoresis by using the electrode Assembly and caster only. Power Supply Basic-Programmable Power supply should be capable to operate four electrophoresis units simultaneously for four identical runs with graphic LED display. The output range Should be 10-300V, 0.4-400mA, 1-75W. Constant voltage, Current or Power with Automatic cross over. Automatic Power-up after Power failure. Safety features: Sudden load change detection.</p>					
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3.	Mini-horizantal Gel (15x10) With power-pack	<ul style="list-style-type: none"><li>•A mini horizontal electrophoresis system should be able to run the gel size of 15x7 cm, and 15X10cm.</li><li>•The system should be supplied with 15X10 gel trays with Gel tank with safety lid.</li><li>•The supplied gel trays should be UV proof so that the trays can be directly kept on the UV Trans-illuminator 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>•The system should include tape free gel casting module for leak free operations.</li><li>•The system should include two 1.5mm combs,15- and 20- well fixed height combs each.</li><li>•The 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 (at75V).</li><li>•The system should have a lid with the safety banana Jacks, which breaks the circuit when the lid is running.</li></ul> <p>Should be provided with a bubble leveler for even gel casting.</p> <p>The gel caster should have 3 height adjustable screws for balancing the uneven platforms for uniform gel casting.</p> <p>The electrodes should be color coded to remove the confusion of wrong orientation.</p> <ul style="list-style-type: none"><li>• The Lid should have a safety option so that the lid cannot be closed in the wrong orientation.</li></ul> <p>The Lid should have integrated cables to connect it to the power pack directly. Power Supply Basic-Programmable power supply should be capable to operate four electrophoresis units simultaneously for four identical runs with graphic LED display.</p> <p>The output range should be 10-300V, 0.4-400mA, 1-75W.</p> <p>Constant voltage, current or Power with Automatic crossover Automatic Power-up after Power-failure. Safety features: sudden load change detection.</p>	1			
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4.	Pipette set with tip box (single channel )	<ul style="list-style-type: none"> <li>•Volume range: 0.1-2.5 <math>\mu</math>l; 2-20<math>\mu</math>l, 10-100 <math>\mu</math>l; 100-1000<math>\mu</math>l; 500-5000<math>\mu</math>l.</li> <li>•Pipettes must have IvD-conformity and light weight.</li> <li>•They must be autoclavable.</li> <li>•There should be facility to regulate the piston movement speed to pipette higher viscous (i.e. glycerol) and lower viscous (i.e. chloroform).</li> <li>•Pipettes must be chemical resistant and provided with spring-loaded tip cone.</li> <li>•Piston should be made of organic polymer and resistant to acids, bases, dyes, sunlight etc.</li> <li>•There should have 4-digit magnifying display.</li> </ul>	2			
5.	ELISA Reader	<ul style="list-style-type: none"> <li>•Wavelength range:400–750nm</li> <li>•Photometric range:0.0–3.5OD</li> <li>•Linearity: <math>\leq</math>1.0% from 0.0–2.0OD; <math>\leq</math>2.0% from 0.0–3.0OD.</li> <li>•Accuracy: <math>\pm</math>1.0% or 0.010 from 0.000–3.000OD at 490nm</li> <li>•Precision: 1.0% or 0.005 OD from 0.0–2.0 OD; 1.5% from 2.0–3.0 OD</li> <li>•Resolution: 0.001 OD</li> <li>•Filter wheel capacity: 8 Wheel with 6 preinstalled filters with 415, 450, 490, 595, 655 and 750nm.</li> <li>•Read time: 6 secat single wavelength, 10 secat dual wavelengths</li> <li>•Data output: On board graphical thermal printer and USB 2 interface with PC or Mac data stations</li> <li>•Data storage: Calendar/clock function; 64 assay Protocols</li> <li>•Flexible configurations and must have ability to read flat-, U-, or V- bottom microplates or 8-or12-well strip plates.</li> <li>•Must support automatic calibration before each reading.</li> <li>•Variable-speed plate-shaking capability</li> <li>•Should be provided with easy-access 8- position filter wheel with 6 standard filters</li> <li>•Must be supported with USB 2 port for external computer control Software must have following functions: <ul style="list-style-type: none"> <li>•Microplate Manager for High- Throughput Analysis and Reporting.</li> <li>•Running of 12 separate assays on the same plate.</li> <li>•Optional automatic printing upon completion of measurement.</li> <li>•Multiple-plate processing with automated data export.</li> <li>•Linear or logarithmic automatic axis scaling.</li> <li>•Curve-fit graph overlay for comparison.</li> <li>•Automatic scaling and real-time monitoring</li> </ul> </li> </ul>	1			
6.	T10096	<ul style="list-style-type: none"> <li>•Sample capacity must be of 96x0.2ml tubes,</li> </ul>	1			



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	<p>well gradient PCR</p>	<p>0.2ml tube strips or universal or standard 1x96 -well plate of 8x12 format with six or more Peltier heating and cooling.</p> <ul style="list-style-type: none"> <li>• Systems which are not capable of taking plates will not be considered.</li> <li>• Must have true gradient capability with Dynamic ramping technology.</li> <li>• Should have the feature of dynamic ramping with identical hold times for all the 8 rows of gradient.</li> <li>• Should have a temperature differential range of 1-25°C across the rows.</li> <li>• Should have intuitive 5.7” (14.5 cm) touch screen interface which can displays graphics in high resolution for easy programming.</li> <li>• The touch screen must be responsive for both gloved and ungloved fingers.</li> <li>• Should be capable of running reaction volumes from 1- 100ul.</li> <li>• Should have a maximum ramp rate of 4°C/second.</li> <li>• Should have a temperature range of 4-100°C.</li> <li>• Should have a gradient range of 30- 100°C.</li> <li>• Should have a temperature accuracy and uniformity of ±0.5°C.</li> <li>• Memory should be of &gt;500 programs with further expansion through a USB Flash drive for transfer of files.</li> <li>• Should have block and calculate temperature control modes.</li> <li>• The software must be capable of exporting Run logs and system error logs.</li> <li>• Should have quick boot up time of not more than 1 min.</li> <li>• System should have built in library of standard protocols for long PCR, fast PCR, reverse transcription PCR etc.</li> <li>• Should have the feature of “Instant Incubation” to keep samples at constant temp for ligation and restriction digests.</li> <li>• Should be supported with power save mode.</li> <li>• Must be compatible with all kind of plastic consumables and reagents especially reusable sealing Mats.</li> </ul>					
7.	<p>Real-Time PCR System (96-well,</p>	<p>The system should be automated integrated 96 well peltier based for both real-time PCR and post-PCR (end-point) analysis with 3 independently controlled zones/ Gradient. It should have interactive touch screen LCD for standalone operation with 8- 10GB onboard memory for</p>		1			



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<p>0.2 mL block) Autom ated System for both PCR and Real- Time PCR analysis using inbuilt peltier block with full License for PCR Process with LAPT OP EACH</p>	<p>storage of at least 1600- 2000 runs. Can connect to an optional online ecosystem where instrument data can be shared and monitored by other collaborators and scientists. Real-Time PCR System with 96-well 0.2-mL block and tower desktop computer with monitor &amp; should support minimum recommended reaction volume of 10–30 <math>\mu</math>L/10–100 <math>\mu</math>L for 0.1/0.2 mL block. The Quoted System Should support the temperature range from 40C to +/- 1000C with block ramp more than 6 DegC/sec, and run time less than 30 minutes. System should have the 4 coupled excitation and emission filter sets to enable collection of up to 4 unique combinations of wavelengths during a single run for multiplexing. The System should utilize a bright white LED source, excitation by LED / Xenon light source with a &gt; 05 years lifespan and detection by CMOS/CCD with whole plate imaging and detection. The system should be factory calibrated for the following FAM™/SYBR™ Green, VICT™/JOET™/HEX™/TET™, ABY™/NED™/TAMRA™/Cy™3, JUN™, ROX™/Texas Red™ dyes System should support various real-time quantitative PCR applications, including gene expression analysis, using relative standard curve, comparative Ct (<math>\Delta\Delta</math>Ct) for relative quantitation, standard curve for absolute quantitation allelic discrimination (SNP), dissociation curve analysis, pathogen detection, multi-plate with multiplex capability for gene expression/ genotyping study, HRM etc. System should have Features CE, ISO, and MIQE compliant. System should detect differences in target quantity as small as 1.5-fold in singleplex reactions, and should have 10 logs of linear dynamic range. System can be connected to an online ecosystem and instrument data/status will be automatically uploaded. Single-plate analysis Absolute and relative gene expression, SNP genotyping, presence/absence, high resolution melt, Multiplate analysis Gene expression studies, SNP genotyping studies. The normalization of reaction due to non-PCR related fluctuations should be possible by using any calibrated dye. With at least One year warranty on parts (both hardware and software)System should come with laptop / desktop with data analysis software (15" Laptop with 16GB RAM, Intel core i5 processor</p>
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		2.6 GHZ 250 GB HDD, Windows 7 Professional SP1 64 bit) & 2 KVA UPS with 30 min back up.					
8.	Manual High Precision Mechanical Rotary Microtome	<p>System will be provided with precision orientation with quick clamping system for specimen clamps, universal cassette clamp, two-in-one blade holder for high and low profile blades with lateral displacement function. It will be manual mechanical rotary microtome with low-maintenance and backlash-free precision micrometer feed system. Horizontal feed and vertical stroke mechanisms will be included with cross roller bearings. There will be smooth-running hand-wheel with two independent hand-wheel locking systems. Ergonomically positioned 2-step mechanical trimming lever for quick trimming of blocks using predefined trim steps of 30 <math>\mu\text{m}</math> and 10 <math>\mu\text{m}</math> must be included. System will include horizontal and vertical rotation of <math>\pm 8^\circ</math>, and calibrated controls to quickly orient both new and previously cut specimens (re-cuts). Additional Points MANDATORY: Unique operator-adjustable force balancing system with UNIQUE Spring Force Compensation System that must offer two advantages: 1. Flexibility to adapt the spring force to different weights of specimen/clamps, eliminating the risk of an object head dropping into the knife. 2. No need for a heavy counter balance in the hand-wheel. Ergonomically positioned and unique coarse feed wheel which can be personalized by user selectable preferred turn direction: either Clockwise or Anti-Clockwise to suit user's Fully Complied: Instrument Model: Leica Histocore BIOCUT</p> <p>Preference: Increases Effectiveness &amp; Adaptability as per User's choice &amp; preference Large top surface area that should allow placement of objects that require a flat surface. Magnetized ANTISTATIC section waste tray that must hold a large volume of waste and is positioned around the microtome base plate. Helpful for much faster &amp; effective cleaning, Saving precious time Universal cassette clamp must secure cassettes horizontally as well as vertically and is optimized for the use with different cassettes with minimum dimensions of 39.8 x 28 mm and maximum dimensions of 40.9 x 28 mm. Section thickness: 1 to 60 <math>\mu\text{m}</math> Section thickness increments: 1 <math>\mu\text{m}</math> increments to 10 <math>\mu\text{m}</math> 2</p>		1			



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		<p>µm increments from 10 to 20 µm 5 µm increments from 20 to 60 µm Horizontal feed range: 24 +/-1 mm/ 0.94 inches Vertical stroke length: 70 mm +/- 1 mm Mechanical trimming function with 2 settings: 10/30 µm, can be activated at any time Silent specimen retraction: approx. 40 µm, can be switched ON/OFF at any time The lateral displacement function of the blade holder with three predefined stop positions (left, center, right) must correspond to the width of a standard histology cassette, facilitate the exact usage of the entire length of the blade. Instrument Should have equivalent model with more than 7-8 installations in East India, with 50% being in reputed Govt. Institutions Must be Imported Model with both European CE &amp; USFDA Approved along with ISO 9001 &amp; 13485 International Guidelines</p> <p>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>				
9.	CO <sub>2</sub> Incubator	<ul style="list-style-type: none"> <li>•Capacity: 165 to 175 litres</li> <li>•Inner chamber should be deep- drawn with rounded corner sand smooth, seamless surface</li> <li>•Should be microprocessor controlled six-sided direct heating system (without any jacket for air/water).</li> <li>•Inner chamber should be fan-less / blower-less</li> <li>•Temperature range: 4°C above ambient to 50°C</li> <li>•140°C temperature disinfection (dry heat) facility should be present.</li> <li>•In-field upgradeable option door handle position.</li> <li>•Dimensions external (W ×D × H) 72×72 ×90cm or lesser</li> <li>•Should have a sealed inner glass door.</li> <li>•Temperature control increment: 0.1 °C or better</li> <li>•Temperature stability: 37 °C±0.1°C or better</li> <li>• Temperature uniformity: ±0.3 °C or better</li> <li>• CO2 range: 0.1 – 20 % or better</li> <li>• CO2 control increment: 0.1 % or better</li> <li>• CO2 stability: 5 % CO2 ±0.1 % or better</li> <li>• CO2 uniformity: ±0.1 % or better</li> <li>• Should have 2 access ports</li> <li>• Should have BMS relay facility</li> <li>• Should have 3 nos. of perforated 1.5 mm thick or better stainless-steel shelves.</li> <li>• Should have ethernet port for data export.</li> </ul>	1			



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		<ul style="list-style-type: none"><li>• Should have dual channel Infrared (IR) CO<sub>2</sub>-sensor (not TCD sensor).</li><li>• Push button controller (not touch screen).</li><li>• Should have removable water pan to maintain humidity in the chamber.</li><li>• Recovery of the CO<sub>2</sub> gas after 30 second door opening should be less than 6 min.</li><li>• CO<sub>2</sub> has should pass through the filter in the incubator chamber.</li><li>• Should be CE certified.</li><li>• Should provide CO<sub>2</sub> Cylinder, CO<sub>2</sub> gas regulator and voltage stabilizer.</li></ul>				
10.	Western Blot Chemiluminescence detection system	<ul style="list-style-type: none"><li>• System with true 16 bit CCD (not A/D) camera; pixel density of 65,536 gray levels.</li><li>• Individual pixel size should be at least 4.54x4.54 μm or bigger.</li><li>• Camera resolution should be more than 6 megapixels.</li><li>• The system should have dynamic flat fielding technology.</li><li>• The instrument should provide excellent quantitative data from a single blot having very intense and weak signals in a single image; to facilitate the same instrument's dynamic range should be at least 4 orders of magnitude for all applications (please support with relevant technical data)</li><li>• Instrument should provide highest level for sensitivity and hence must have minimal dark current with maximum limit of 0.002e/p/s and low read noise of not more than 6e<sup>-</sup>.</li><li>• The system should be supplied with a 10% strain free solution.</li><li>• The camera should have peltier based cooling. Quantum efficiency at 425nm should be 70% or more, this will ensure that the instrument is highly sensitive to very faint signals from chemiluminescent blots.</li><li>Motorized zoom fast lens with f/0.95 or better should be provided.</li><li>• Light sources/excitation should include— Trans-UV(302nm), EpiWhite, trans-white (requires White sample tray).</li><li>• Instrument should have provision for protective UV shield for use during band excision with safety interlocks to avoid un-intentional UV exposure to the user.</li><li>• Minimum imaging area for white light and chemiluminescence application should be</li></ul>		1		



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	<p>20.5cmx16.5cm.</p> <ul style="list-style-type: none"><li>•Sample drawers with fixed stage.</li><li>•Should provide image acquisition with automatic zoom, focus, and iris adjustment without the need for users to focus or adjust aperture settings.</li><li>•The instrument should have onboard attached touch-screen of 12” or bigger with multi- touch capability (2 points) enabling users to easily interact with the touch screen to acquire, assess and export images.</li></ul> <p>Touch screen actions should include – tap, double tap, pan scroll to zoom.</p> <p>Instrument should have multiple input/output ports with minimum 3 USB ports allowing users to connect USB devices (like keyboard, mouse, data storage, and printer). One USB port should be provided on the front panel for easy export to USB. Also, system should have one Ethernet port so that users can transfer image files via Ethernet to networked computers.</p> <ul style="list-style-type: none"><li>• Factory calibrated flat fielding for ensuring uniform data for all applications. System should be calibrated for image area, focus, and flat field correction at the factory and files stored in the integrated PC.</li></ul> <p>Users should be able lock the system to prevent others from interrupting/changing the settings</p> <p>The system should have the illumination sources such as Trans-UV, 302 nm (standard); Epi-white (standard); Trans- white (standard); Trans-blue, 450-490 nm ((standard); Epi- blue, 460-490 nm excitation (standard); Epi-green, 520-545 nm excitation (standard);Epi-red, 625-650nm excitation (standard); Epi-farred,650-675 nm excitation (standard); Epi-near IR,755-777nm excitation(standard).</p> <ul style="list-style-type: none"><li>•System should be supplied with a stain- free acrylamide solution kit to enable stain-free imaging of gel sand blots.</li></ul> <p>The system should provide flexibility in selecting the pixel binning options, should be possible to select minimally 2x2, 4x4 and 8x8 binning.</p> <ul style="list-style-type: none"><li>•At least five prior installation report of the exact same model of the instrument in different universities/ institutes/companies in India is required (should be provided with proper documentation from corresponding authority).</li></ul>					
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		<ul style="list-style-type: none"><li>•Should be supplied with a suitable Online UPS</li></ul>				
11.	Minus 86 Degree Deep Freezer	<ul style="list-style-type: none"><li>•Capacity: 400L to 430L</li><li>•Must be capable to hold <math>\geq 24000</math> nos. of 2 ml vials.</li><li>•Insulation by vacuumed insulation panel plus polyurethane foam panel. Vacuum panel should have metal- coated polymer film barrier seal to maintain vacuum and they should be composed of biodegradable, CFC- free and HCFC-free materials.</li><li>•Should have programmable, four- digit passwords for freezer set point, alarms.</li><li>•Should have space saving footprint (WxD): 80x86cm</li><li>•Freezer height should be less than 194cm.</li><li>•Should have at least 5 compartments with 4 adjustable height shelves and each compartment with individual inner door.</li><li>•Lowest temperature should go upto <math>-86^{\circ}\text{C}</math>.</li><li>•Power consumption of freezer (with shelves) at set point <math>-80^{\circ}\text{C}</math>, <math>21-23^{\circ}\text{C}</math> ambient conditions should be <math>&lt;8.5</math> kWh/day.</li><li>Noise level <math>&lt;54\text{dB}</math>.</li><li>•Keypad control panel.</li><li>•Should maintain <math>86^{\circ}\text{C}</math> even at <math>32^{\circ}\text{C}</math> room temperature,</li><li>•Empty freezer (with shelves) should take <math>&lt; 4.8\text{hrs}</math> to reach at <math>-85^{\circ}\text{C}</math> from <math>23^{\circ}\text{C}</math> ambient temperature</li><li>Heat output (at 230V) should be <math>&lt;508\text{W}</math></li><li>• Microprocessor based control of temperature and alarms with non-volatile memory,</li><li>• Automatic reset to prevent microprocessor controller from failure caused by power spikes.</li><li>• Display should be at the eye level.</li><li>• Should have hermetically sealed two stage cascade system.</li><li>• Temperature should be placed at the middle of the freezer.</li><li>• Inner chamber should be stainless steel.</li><li>• Should have inbuilt diagnostic software for service issues.</li><li>• Compressor lubricants should be biodegradable and Commercially available and should prevent oil-logging.</li><li>• 4-digit password to prevent unauthorized use.</li><li>• Should have battery backup to activate alarms and display temperature during power outage.</li><li>• Should have audible and visible alarms for</li></ul>	1			



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		temperature, filter clean, power out, low battery, system fail, fault analysis. <ul style="list-style-type: none"><li>• Should have heated air vent with manual plunger to prevent vacuum formation,</li><li>• Should have auto restart function after power failure.</li><li>• Should have option from the same manufacturer to provide Polypropylene autoclavable cryo boxes with high contrast permanent alphanumeric marking of each location through laser labeling and transparent lid with writing areas on it.</li><li>• Should meet WEEE directives for disposal</li><li>• Certification: CE and CSA certified</li><li>• Should supply suitable servo-controlled Voltage stabilizer</li><li>• Should provide 15 racks with 240 nos of 2” boxes.</li></ul>				
12.	Qubit Fluorometer for the Quantitation of Nucleic Acids	Dimensions: 5.4"(w) x 10"(l) x 2.2"(h) (13.6 cm x 25 cm x 5.5 cm) Dynamic Range: 5 orders of magnitude For Use With (Equipment): Qubit Fluorometer Memory: 4 GB USB flash drive Optics: Emission filters: green (510-580 nm), red (665-720 nm), Excitation filters: blue (430-495 nm), red (600-645 nm), LED light sources: blue (max ~470 nm) red (max ~635 nm), Photodiode detectors: 300-1,000 nm range Processing Time: Seconds per sample Product Size: 1 kit		1		

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:



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### 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 vendor.

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 there of 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.

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.



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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: HoD** (Animal Science), Vidyacharcha Bhawan, Kazi Nazrul University, 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 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. 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 2019-20.





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**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.

9.23 University reserves the right to relax any clause as stated herein above for selection of responsive vendor.

### 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>	12.08.2020 (18:00hrs.)
2	Documents download(online)	12.08.2020at18:00hrs.
3	Bid Submission Start Date(online)	14.08.2020at18:00hrs.
4	Bid Submission Closing Date (Online)	05.09.2020at12:00hrs.
5	Bid Opening Date (Online)–Technical Bid	07.09.2020at12:00hrs.
6	Date of uploading list for technically qualified bidder	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	14.08.2020 at 12:00hrs ( Online Mode,) For pre bid quarry mail to <a href="mailto:hod.animalscience@knu.ac.in">hod.animalscience@knu.ac.in</a> till 14.08.2020 (4pm). Meeting link will be sent directly to the return mail.

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 online 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	2017 – 18 :Rs..... 2018 - 19 : Rs..... 2019 - 20 : Rs..... Turnover: Rs.....
10	Status of the bidder(Please enclose copy authenticating your status)	Manufacturer/Dealer/Distributer/Selling Agent/Stockiest (Please put tick mark)



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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: Tender for the Supply of.....

Ref:- .....No.....dated.....

Sir,

Having examined the pre-qualification & other documents published in the.....,I/we here by 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 Clause9 and declare that we shall abide by it through out 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.)

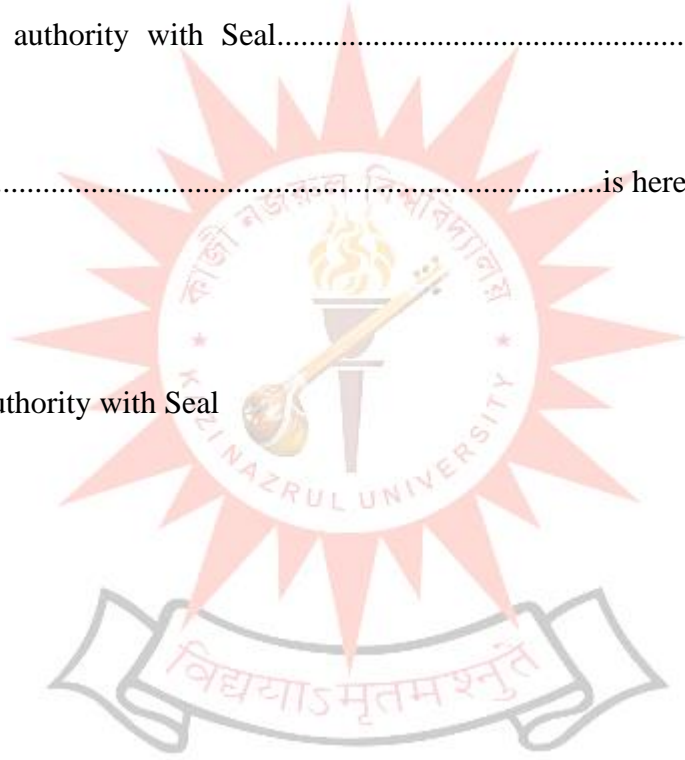
(TO WHOM IT MAY CONCERN)

This is to certify that Mr .....(Name), Employee of this Organisation as.....(Official Designation) is Here by 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 here by 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 here by 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

