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COOCH BEHAR PANCHANAN BARMA UNIVERSITY

Department of Zoology

NOTICE INVITING E-TENDER

Tender Ref. No.: CBPBU/Zool/01 **Dated: 28.12.2017**

Online E-Tender is invited, by the Department of Zoology, Cooch Behar Panchanan Barma University, for supplying different instruments, by the eligible vendors. Interested vendors may follow the instructions as given below for submission of their tenders under online mode:

List of Items to be Purchased:

Sl. No	Item	Specification	Quantitity
1	**Gel Doc**	**Chemidoc System:** 1. System with true16 bit CCD (not A/D) camera; pixel density of 65,536 gray levels. 2. Individual pixel size should be at least 4.54 x 4.54 µm or bigger. 3. Camera resolution should be more than 6 megapixels. 4. The system should have dynamic flat fielding technology. 5. 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) 6. Instrument should provide highest level for sensitivity and hence must have minimal dark current with maximum limit of 0.002 e/p/s and low read noise of not more than 6e-. 7. The system should be supply with a 10% strain free solution. 8. The camera should have peltier based cooling. 9. Quantum efficiency at 425 nm should be 70% or more, this will ensure that the instrument is highly sensitive to very faint signals from chemiluminescent blots. 10. Motorized zoom fast lens with f/0.95 or better should be provided. 11. Light sources/excitation should include – Trans-UV (302 nm), Epi White, trans-white (requires White sample tray).	1

		12. 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. 13. Minimum imaging area for white light and chemiluminesence application should be 20.5 cm x 16.5 cm. 14. Sample drawers with fixed stage. 15. Should provide image acquisition with automatic zoom, focus, and iris adjustment without the need for users to focus or adjust aperture settings. 16. The instrument should have onboard attached touchscreen of 12" or bigger with multi-touch capability (2 points) enabling users to easily interact with the touchscreen to acquire, assess and export images. Touchscreen actions should include – tap, double tap, pan, scroll to zoom. 17. 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. 18. 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. 19. Users should be able lock the system to prevent others from interrupting/changing the settings 20. The system should have the below illumination sources : 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, 625-650 nm excitation (standard) Epi-far red, 650-675 nm excitation (standard) Epi-near IR, 755-777 nm excitation (standard) 21. System should be supplied with a stain-free acrylamide solution kit to enable stain-free imaging of gels and blots. 22. The system should have a fixed sample stage. 23. The system should provide flexibility in selecting the pixel binning options, should be possible to select minimally 2x2, 4x4 and 8x8 binning. 24. Atleast 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). 25. Should be supplied with a suitable Online UPS	
2		*Descriprtion& Technical Specification :* Wavelength range 400–750 nm • Photometric range 0.0–3.5 OD • Linearity _1.0% from 0.0–2.0 OD; _2.0% from 0–3.0 OD , • Accuracy ±1.0% or 0.010 from 0.000– 3.000 OD at 490 nm ,	

	Elisa Plate Reader	• Precision 1.0% or 0.005 OD from 0.0– 2.0 OD; , 1.5% from 2.0–3.0 • Resolution 0.001 OD • Filter wheel capacity 8 Wheel with 6 preinstalled filters with 415, 450, 490, 595, 655, and 750 nm • Plate shaking 3 speeds: low, mid, high; duration: 0–999 sec , • Read time 6 sec at single wavelength, 10 sec at dual wavelengths • Data output Onboard graphical thermal printer and USB2 interface with PC or Mac data stations • Data storage Calendar/clock function; 64 assay Protocols , • Flexible configurations with ability to read flat-, U-, or , V-bottom microplates or 8- or 12-well strip plates, • Automatic calibration before each reading , • Variable-speed plate-shaking capability • Easy-access 8-position filter wheel with 6 tandard Filters, • USB2 port for external computer control • Data and protocol presentation on LCD display • Onboard data storage of protocols, standard curves, and graphs , • Self-diagnostic capabilities to detect lamp burnout at startup, • Motorized door for plate loading Software specification: Microplate Manager for High-Throughput Analysis and Reporting, • Running of 12 separate assays on the same plate, • Optional automatic printing upon completion of Measurement, • Multiple-plate processing with automated data export • Custom reporting function that provides one- button screening for predefined assays, such as for TSE Comprehensive Curve- Fit Analyses • Linear, quadratic, cubic, Log-Log, Zero-Intercept Linear, Semi-Log, Logit Log, Point to Point or logistic (4-parameter, 5-parameter) fit types • Linear or logarithmic automatic axis scaling • External standard curves for multiple plates • Curve-fit graph overlay for comparison Performance verification • Spectral blocking Complex Kinetic Analyses • Choice of number of calculation points for Vmax • Simple velocity calculation • Negative or positive slope calculation • Absorbance limit selection • Kinetic correlation coefficient display and calculation for fit (r value) • Real-time data acquisition display and ability to zoom in on a well • Automatic scaling and real-time monitoring	1
		Can be equipped with up to 7 fixed angle rotors and 1 swing out rotors , 30x 1.5/2ml tubes 30 x 1.5/2ml tubes,24x 1.5/2ml tubes,6x 15/50ml Falcon,18x 1- 2ml cryo tubes or screw cap tubes simultaneously, 24 x spin column tubes, 8 x 8-P 1 600,000.00 Performance: Wide temperature range of -11°C- + 40°C, which is modifiable during the run operation Centrifuge must have a „fast cool“ function where cooling process can be shortened Have a standby cooling and heating mode up to 8 hours which enables cooling or heating even when not in operation. Have automatic temperature start up at a specific time to automatically pre-prepare temperature before centrifugation	

3	**Refrigerated Centrifuge**	Must be able to maintain at 4°C at max. speed Max speed of 17,500rpm, max rcf of 30,130g adjustable from 100rpm upwards in an increment of 10rpm up to 3000rpm and in an increment of 100rpm thereafter. Acceleration time to maximum speed must be less than 14s for all rotors at max load and a deceleration time of less than 15s with the standard 30 x 1.5/2ml rotor, but has option to accelerate and decelerate gently for sensitive samples using SOFT function Timer for run can be set up to 99minutes continuous Must have "At set rpm" function which enables timer countdown to be started only when selected speed is achieved General features: • Must have digital display of time, speed and temperature • Programmable time and speed using jog dials • Must be able to store 50 routine procedures with 5 programmable buttons for frequently used programs in the first level • Able to switch display between rcf and rpm speed setting • Separate short spin key • Low noise levels less than 63db at max speed • Brushless maintenance free drive • Automatic motorised locking when lid almost closed Safety features: • Must follow safety standards set by IEC 1010-2-020 • Rotor should be made of anodised aluminium to ensure chemical resistance Chamber must be of stainless steel material • Rotor must be autoclavable at 121°C for 20min to completely eliminate any contaminating material • Aerosol tightness should be certified by external body such as the Centre for Applied Microbiology and Research, Porton Down, UK • Automatic imbalance detection • Automatic rotor recognition • 2-point lid screwing for maximum security even at high speed centrifugation Technical specifications: Maximum RCF: 30,130 x g Maxiimum RPM: 17,500 1/min Acceleration time: 14s Deacceleration time: 15s Soft ramp : adjustable Timer : 30 s - continuous Noise level -	1
4	**<u>(-86 degree) Freezer</u>**	• Ultra-low temperature Freezer (-86 °C), Upright model, 410 Liters capacity • Upright ultra-low freezer with Internal Dimension of 126.5 x 55 x 57.5cm Approx. and external dimension of 191.5 x 80 x 85.2 cm approx. • Freezer should be of 410 Liters capacity • System should have Programmable operating temperature from –50°C up to –86°C with 1°C increment • Fully programmable microprocessor controlled with membrane keypad and eye level control panel. • Construction should be of Polyurethane foam (130mm thick) insulation. • System should be made up of 18 gauge Steel, 1.2 mm thick with powder coated paint to resist scratch and rust and the interior should be polished with 304 SS for easy cleaning and to eliminate potential for oxidation. • Inner door should have silicone seal to prevent temperature loss and Outer door should have safe silicone triple point seal • Freezer should have 5 Compartment with five inner doors. • Ambient to -85 C pull down timing should be 5.3hrs • Freezer should have the sample (2" vials) capacity of 24,000 or more.	1

		• Freezers should have heated air vent and front panel air filter. • Should have security keyed locks on the outer doors and lids keep out unauthorized users • Freezer must have battery back-up and 4 PIN security lock for unauthorized tampering. • Freezer must have RS 485 interface data logging port and it must also have on board • SMART PLUS diagnostic software. Freezer must have three compartments with three inner doors for easy handling of samples. • Audible and visible alarms for temperature, power failure, system failure, battery low etc. • Should also have remote alarm port for connection to an auto dialer. • Freezer must use CFC-FREE, HCFC-FREE nonflammable refrigerants, and refrigeration • System must be energy efficient and hermetically sealed two stage cascade refrigeration system. Compressor should be capable to run any voltage between 190 – 270V. Freezer must have ISO 9001 standard quality test requirements and IEC 61010 Electrical safety CE & UL certified. • Freezer should have efficient power consumption in the range of 10 to 11 kWh/day Freezer must have capacity to hold 15 racks and 240 boxes of 2" height vials	
5	**-20 Deep Freezer**	ULTRALOW FREEZER Model : Technical Specification Capacity (litres) : 344 Dimension (Inches) WxDxH : 23x23x73 Temperature Range : -17 °C ~ -24 °C Wheels : Yes (Rear) Lock : Yes Defrost : Manual Rated Load, Wattage : 140 No. of Baskets/Shelves : 8 No. of Lids/Doors : 1	1
6	**BOD Incubator**	Temp. Range +5°C to 70°C (running Temp. 15 °C to 70 °C Temp. Accuracy +/-0.2 °C at 25 °C Temp. Controller Digital P.I.D controller Display: Dual LED Display Dimension (IN) 600x600x1200 (H)mm (OUT) 750x880x1790(H)mm Capacity 432 Liter	1

		Material (IN) Stainless steel (OUT) Steel plate with powder coating Door Double door, silicon packing magnet door Inner door Tempered Safety glass door Circulation fan Internal convectional fan Shelves 3EA, adjustable type Safety Device Exclusive over/under temp. protector Net weight 122 Kg Power 220V, 6.5A, 1.5KW, 60HZ	
7	**Ice Flaking Machine**	**FLOOR STANDING ICE FLAKING MACHINE WITH BUILT - IN-BIN** • Air cooled system • CFC Free Refrigeration system • Ice flaker body is made of non corrosive steel and well electrically grounded for safety. • Auto shut off if water temperature is high • Built in visual alarm • Stainless steel insulated storage bin. Auto shut off when bin is full. • Auto shut off of low water pressure • Continuous crushed ice production facility. • Electronic controlled system. • Highly hygienic bin for storage of ice. • Low power and water consumption. • Attractive drain hose • Production capacity minimum 70 kg per day • Bin capacity not less than 30 kg	1
8	**Mini- 1-D vertical gel electrophoresis system**	. **Mini gel Specification- for 8 X 7 cm gels** High throughput- Capable of running up to 4 mini gel (8 X 7 Cm) simultaneously. Should be supplied with the capability of running two gels . Flexible- Capable of running hand cast as well as precast gel. 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. Patented Flap wing for leak proof assembly. Permanently bonded spacer plates for leak proof, without agarose sealing & taping casting of gels. Casting frame with simple cam closure mechanism that gives	2

		precision alignment on any flat surface. Side by side casting stands that allow access to both gels simultaneously. Patented colored sample loading guides to prevent the skipping or repeated loading lanes. Modular design can be used do western blotting by using the blotting module only. Should able to run gels in 15-20 mins. Should come with buffer dam. Should come with 10% Stainfree Fast Acrylamide **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 can run 2 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 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 10-300 V , 0.4-400 mA, 1-75 W .** Constant voltage, current or Power with Automatic crossover Memory storage: 9 programs , 9 steps, Timer Control : 99 hr, 59 min Automatic Power up after Power failure, Safety features: No-load detection; sudden load change detection.	
9	**Fast Blotting System**	**Fast Blotting System** Should have following specs: Fast blotting system with four gel simultaneously,2 different cassettes same protocol at different time in 3 mins. System should be open for traditional blotting consumables System should have inbuilt fix electrodes Input power: 100–240 VAC, 276 VA, 50–60 Hz, 175 W max USB port: Yes, input only, for firmware updates System should have Cooling fan Should have inbuilt Power supply with high current of 2.5 A User Interface 18 button keypad, 128 x 64 pixel monochrome display Programmable methods: Up to 25 user-defined Preprogrammed methods: Standard SD, 1.5 mm gels, High MW, Low MW, MixedMW, Audible alarm: Yes User notifications should have following features: • Power fail during run • No-load detection • No cassette detection	1

<table>
<tr><td></td><td></td><td>• End of run

System should be supplied with 10% Stainfree TGX fascist Acrylamide solution with TEMED &APS , RTA transfer kit of nitrocellulose for 40 blots</td><td></td></tr>
<tr><td>10</td><td>Mini wet transfer system</td><td>Transfer two 10 x 7.5 cm gels simultaneously
High field strength for rapid 1 hr transfers
Should be able to run overnight at low voltage
Wire electrodes should be placed at least 4 cm apart for strong electrical fields and efficient protein transfer
Colour-coded cassettes and electrodes for proper orientation of the gel during transfer
Should have Ice cooling unit, completely contained within the Mini Blot cell, for absorbing heat generated during rapid transfers
Buffer-450ml</td><td>2</td></tr>
<tr><td>11</td><td>Semi dry Transfer Apparatus</td><td><table>
<tr><td>Maximum gel size (W x L), cm</td><td>24 x 16</td></tr>
<tr><td>Buffer requirement, ml</td><td>200</td></tr>
<tr><td>Gel capacity</td><td>4 Mini-PROTEAN® precast or handcast gels, 3 Criterion™ gels, 1 PROTEAN® II gel sandwiches</td></tr>
<tr><td>Recommended power supply</td><td>PowerPac™ HC (High Current)</td></tr>
<tr><td>Dimensions (W x L x H), cm</td><td>37 x 24 x 11</td></tr>
<tr><td>Weight, kg/lb</td><td>3.6/7.9</td></tr>
</table>
Together with accessories:
Extra Thick Blot Filter Paper, Precut, 7 x 8.4 cm,
Extra Thick Blot Filter Paper, Precut, 8.6 x 13.5 cm
Extra Thick Blot Filter Paper, Precut, 14 x 16 cm
Extra Thick Blot Filter Paper, Precut, 19 x 18.5 cm
Trans-Blot SD DNA/RNA Blotting Kit</td><td>1</td></tr>
<tr><td>12</td><td>Bench-top high speed mini centrifuge</td><td>Capacity: 24 x 1.5/2 mL
Max speed: 13,000 rpm Max RCF: 17,000xg
Type: Benchtop centrifuge Run time: 1 to 99 min
Temperature range: Ambient temperature</td><td>3</td></tr>
<tr><td>13</td><td>Magnetic Stirrer</td><td>Speed: 100 to 1700 rpm (Constantly adjustable)
Maximum stirring capacity: 10L
Temperature control: room temperature to 199°C (Constantly adjustable) Highest temperature: 300°C</td><td>3</td></tr>
<tr><td>14</td><td>Vortex</td><td>Specifications: Variable Speed Control Maximum Speed: 3000 RPM Choice of Continuous & Touch Mode Rubber Feet</td><td>4</td></tr>
<tr><td>15</td><td>Water Bath</td><td>Specifications: Capacity: 6, 10, 20L Heating temperature range: 5°C to 100°C Temperature accuracy: ±0.2°</td><td>2</td></tr>
<tr><td>16</td><td>Dancing</td><td>Specifications: Three dimensional combinations of rocking and</td><td></td></tr>
</table>

	Shaker	orbital motion, Non slip platform: adjustable from horizontal to a steep angle continuously, Low foaming agitation and uniform mixing capacity at slow speed, Speed limit: 0-60 RPM.	2
17	**P^H meter table top**	Microprocessor based, Ph range 1-14 Digital display, touch based calibration and measurement button. systems that will measure pH, ion concentration (ISE), conductivity, dissolved oxygen, temperature, or a combination of parameters.	1
18	**P^H meter hand held**	Microprocessor based, Ph range 1-14 Digital display, touch based calibration and measurement button. systems that will measure pH, ion concentration (ISE), conductivity, dissolved oxygen, temperature, or a combination of parameters.	1
19	**Micropipette**	Fully autoclavable, 0.2 -10 ul, 2-20ul, 20-200ul, 200-1000ul and 5000ul	3 each
20	**Multichannel pipette**	Multichannel pipette	2
21	**ULTRA SONICATOR SYSTEM**	Compact ultrasonic processor Power: 200 Watts Frequency: 24 kHz Capacity: Up to 2000 ml. Automatic frequency scanning system, Amplitude adjustable 20-100%, pulse adjustable 0-100%. Dry running protection. Solid titanium probe for all sample even for organic solvents or low surface tension liquids. Replaceable tip or sonotrode with multiple joint will not be entertained. Easy positioning of samples under the ultrasonic probes to control immersion depth, stainless steel.	1
22	**CO_2 Incubator**	Specification for CO2 Incubator **Direct Heat Chamber** ▪ 160L Electro polished stainless steel chamber with compact footprint, easily stackable ▪ Standard left hand door swing; reversible door swing for added flexibility **THRIVE Active Airflow** ▪ In-chamber fan gently distributes clean, humidified air throughout the chamber ensuring homogeneous conditions **Protected Humidity Reservoir** ▪ Should have directly heated water reservoir provides stable high relative humidity levels, preventing culture desiccation ▪ Cover should limits particles and spilled media from settling into the reservoir ▪ Should have Condensation free inner chamber, prevents a breeding ground for contaminant ▪ Should have 5X faster humidity recovery than traditional water pan designs ▪ For easier water handling, humidity reservoir may be	1

		filled or drained without the removal of shelves or cultures are preferable **In situ sensors and probes** ▪ Dual temperature probes for over temperature protection with operational back up ▪ Should have facility of up gradation for O_2 control for future application **Steri-Run, high temperature defection cycle** ▪ Overnight cycle simplifies cleaning and eliminates the need for separate autoclaving of parts ▪ Should have 180°C cycle assures uniform 6-log sterilization on all chamber surfaces eliminating biological contaminants **Intuitive, interactive iCAN™ Touchscreen Control** ▪ Convenient on-screen user prompts and reminders for easy navigation ▪ Selectable languages simplify operation: English, Spanish, German, French, Italian, Japanese and Mandarin ▪ Visibility to changes in culture environment on performance graphs and error and data logs **Technical Specification** • Chamber volume 160 liters or more • Shelf count : 3 standard / max. 10 numbers • Temperature range :3°C above ambient to 55°C • Humidity Range :>93% @ 37°C • Concentration Control : ±0.1°C • Stabilization Time : Under 12 hours • Port Type : 42mm access port, rear left • Sensor Types : TCD Sensor • Certifications: CE, CSA * Pre-requisites like CO2 regulator, 18 18Kg CO2 cylinder filled with CO2 gas & suitable servo voltage stabilizer from local source to be required at the time of installation. After Sales Service should be providedfrom Kolkata office.	
		The cabinets are fabricated of thick board duly sunmica clad. Interior surfaces are expoxy painted for its longer life. The work table made of heavy gauge S.S. sheed and is fitted with U.V. Germical light, static pressure Manometer, Exhaust System (Suitable for 6 feed duct) and Virus Burn Out Unit. Side panels	

23	**Biosafety Cabinet**	are made out of thick transparent plexis glass duly framed. The unit is fitted with pre- filter and HEPA filter. Air is drawn though pre- filter and is made to pass through highly effective HEPA (HIGH Efficiency particular Air) filters having efficiency retaining all air – borne particles of size 0.3 micron and larger. Using a dynmic balancing machine, the blower and motor assembly is statically and dynamically balanced. Motor of 1/H.P. capacity operates with minimum noise level. The working area is illuminated by fluorescent lighting fitted to the unit. The height of the working table provides a comfortable "SIT DOWN" working position for the operator. In addition to the above features of a standard Vertical laminer flow Bench the Bio- Safe Cabinets have arrangement for re- circulating a part of the air thus creating highest level of clean air, The unit is also convertible to the conventional vertical air flow bench with downward air flow by lifting the sliding front door upwards. Air is sucked through the per- filter and theexcess air flow by lifting the sliding front door upwards. Air is sucked through the pre- filter and the excess air is thrown out from the top, through a HEPA filter. Supplied with HEPA filter, Pre- filter U.V. light and fluorescent light. Working Size:- 2"x2"x2" Size of HEPA Filter:-2"x2"x6" No. of HEPA filter:-1 1	1
24	**Laminar Air Flow**	Features: System is designed to meet the requirement of US Federal Standard 209B (BS 5295) providing particle free air to meet class (Class condition) the cabinets are fabricated out of thick board duly sun mica clad. Interior surface are epoxy painted for its longer life. The work table is made of thick board pasted in S.S. lined at top. Side panels are made out of thick transparent plexi glass duly framed. The unit is fitted with pre filter and is made to pass through highly effective HEPA filters having efficiency as high as 99.99% with cold DOP and 99.97% with hot DOP ,thus retaining all air-borne particles of size 0.3 micron and larger The system is used with dynamic machine the blower and motor assembly is statically and dynamically balanced ISI MARKED Motor of ¼ H.P Capacity operates with minimum noise level The working area is illuminated by fluorescent lighting fitted to the unit Height of the working table provides comfortable “SIT DOWN” working position for the operator To work on 220/230volts AC supply Supplied with S. Steel table top HEPA Filter ,pre filters ,and fluorescent illumination Transparent Front door, static pressure manometer, Built in Germicidal light, cock for gas, air or vacuum line. Etc Specifications: Working Size: 2' x 2' x 2' Size of HEPA Filter: 2' x 2' x 6" No. of HEPA filter: 1 Illumination:1x 20 W	1
25	**Shaker Incubator**	(Benchtop model) Small Capacity 50 ~ 300 rpm, Amb.+5 ~ 60°C Flat platform with non-slip rubber mat OR Double platform with non-slip rubber mat	1
26	**Portable microweighing Balance**	Specifications: Capacity: 120g-10 microgram Minimum display: 0.01mg Pan size (mm): 110 dia Power supply: two ways (AC or Battery operation).	2
27	**Balance**	Specifications: Capacity: 32/180 Gms Readability: 0.01mg	1

28	**Upright Microscope**	Specifications: Temperature Control Chamber: 0° to -35°C (at Upright wide field research microscope with large heavy rugged stand for longevity, highest stability and vibration free work. The microscope for BF, DF, Phase, Differential Interference Contrast (for plastic dishes also) and Fluorescence Transmitted light halogen illumination Hextuple nosepiece with slots for DIC sliders. Binocular tube with field of view minimum 22mm or higher. Higher is preferable. Viewing inclination angle not more than 20degree. Separate port for camera attachment. Objective magnification 10x, 20x, 40x. Intensity regulator and focusing knob should be placed side by side, accessible from both side and can be controlled each of them without moving the hand position for better ergonomic and continuous observation without moving away from eye piece. Integrated luminous-field diaphragm and aperture stop 6-position filter wheel at the front equipped with the integrated shutter and additional filter slider at the back. Reflected light 100 watt mercury vapour or LED Fluorecence excitation with Fluorecence filter (1) UV excitation filter 365 shift free Dichromatic Mirror 395, emission filter bandpass 445/50 (2) excitation filter 450-490, Dichromatic Mirror 510, emission filter longpass 515 (3) excitation filter 545/25, Dichromatic Mirror 570, emission filter bandpass 605/70. Must be completed with dust cover and dust protection arrangement from manufacturer. Microscope should be quoted with 2 years AMC after expairy of standard warranty of 1 year. 1.4MPixel Monochrome CCD camera Pixel size: 4.65 µm x 4.65 µm Digitization: 12 Bit / Pixel Integration Time: 1 ms to approx. 4 s **<u>SOFTWARE</u>** Camera driver for use camera. Support for the acquisition of individual images (SNAPs). Movie Recorder Various manual microscope components (objective, Optovar, camera adapter) configur to generate a theoretical scaling. Graphical user interface can be switched between bright or dark design to adapt to ambient brightness. User interface offers stepless scaling and zooming for optimal adjustment to the screen size.	1

		Interactive measurement: length, contour-based measurement data (area, box, perimeter, gray values), angle. Fixed configuration, as well as adjustable configuration of menu bars. Export into OME-TIFF (image format specification of the Open Microscopy Environment which enables the exchange of microscopic image data). BatchExport of images and videos. µ bar scalings. Text annotation. Postprocessing of images: standard operations for image optimization (contrast, brightness, gamma, colors, smoothing, sharpening, geometric corrections). Image file browser. Multiple independent image containers, image comparison view. Gallery view. Channel view. Histogram measurement. Profile measurement. 2.5D (pseudo-3D) view. Info view. Functions for working with data tables: filtering and sorting of tables. Kolkata based service center with the service credentials will be preferred.	
29	**Fully Rotary Microtome**	Manual Rotary Microtome Imported Rotary Microtome with · 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 ON/OFF · Specimen orientation: XY – 8° · Should have two steps mechanical trimming function for fast and convenient specimen trimming Trimming thickness 10 µm, 50 µm · Working height (knife edge) 105 mm 4.134” · Accessories should include disposable blade’s pack of 50 blades high profile, disposable blade holder for low profile or highprofile blade. · Should have effortless manual sectioning via a counter-balanced, exceptionally smooth-running hand wheel. · Should have lateral displacement feature for optimum uses of Blades. · Should have Hand wheel lockable in any position via brake lever attached to base plate and, in addition, lockable in upper position via hand wheel grip · Should have CE certificate	1

		· Should have minimum 20 installation in eastern Indiain which 10 should be in Government Medical colleges. · Should have factory trained engineer support in Kolkata. Engineers should be based at Kolkata with more than 95% ontime service record.	
30	**Rocker**	20 rpm, Tilt Angle: 20°	3
31	**Spectrophoto-meter**	Spectrum analyser (wave length). Measuring of optical density converted to electrical measurement in millivolt. **Optical system**: Double Beam **Monochromator**: Seya – Namioka Monochromator **Wavelength range**: 190 to 1100 nm **Spectral bandpass**: 1. 5nm **Stray light**: 0.05% or less (220 nm for Nal, 340 nm for NaNO2) **Wavelength accuracy**: ±0.3 nm (at 656.1, 486.0nm) **Wavelength setting repeatability**: +/-0.1 nm **Photometric mode**: ABS, CONC, %T **Photometric range**: - 3 to 3 Abs / 0 to 300% T **Photometric accuracy**: ± 0.002 Abs (0 to 0.5 Abs), ± 0.004 Abs (0.5 to 1.0 Abs) (certified according to NIST SRM 930) ± 0.008 Abs (1.0 to 2.0 Abs), ± 0.3% T **Photometric repeatability**: ± 0.001 Abs (0 to 0.5 Abs), ± 0.002 Abs (0.5 to 1.0 Abs), (certified according to NIST SRM 930) ± 0.004 Abs (1.0 to 2.0 Abs), ± 0.1% T **Baseline flatness**: ± 0.0006 Abs (within 200 to 950 nm) Baseline stability : 0.0003 Abs/hr (at 500 nm, 2 hours after power on) **Response**: fast, standard, slow **Wavelength scan speed**: 10, 100, 200, 400, 800, 1200,2400, 3600 nm/min **Light source**: Deuterium Lamp, Tungsten Iodide Lamp **Light source changeover**: Automatic switchover interlocked with wavelength. **Sample Compaetment**: Beam Spacing – 100nm **Detector**: Silicon photodiode **Display**: 26.4 cm (10.4 inches) colour LCD display with backlight. **Noise level**: ± 0.00015 Abs (at 500 nm) **Printer I/F**: Centronics interface **Serial I/F**: RS-232C (exclusive for UV solutions program) **Dimensions**: 500(W) x 605(D) x 283(H) mm (with LCD lowered) **GLP/GMP**: Complied. **QUARTZ CUVETTES** – Volumes 3.5ml, Path length 10 mm	1
	Inverted	**Microscopestand** Large, Stable, bearing mounted Microscopy stand with provision to attach camera on Coded Left Side port with 0:100 % light sharing with 18mm or more FOV for Camera. Motorized Z focusing with Course and Fine knobs with travel range preferably	

32	**Microscope with Phase Contrast, DIC & Fluorescence Technique with Cooled CCD Camera & software**	more than 10mm. **ObservationTube** Binocular tube with 45 degree Viewing Angle and 100:0, 50:50 & 0:100 light sharing. **Transmittedlight** Coded Transmitted light continuously variable luminance Adjustment of brightness, with Field Diaphragms. Transmitted light with 3300k -4500K (preferable white light); with inbuilt fast shutter, preferably LED for long life (approx 40000 hrs or more). **ContrastingMethods** Microscope should be equipped for Bright field, Phase contrast, DIC and Fluorescence. **XY Stage** Manual XY stage with universal sample holder for plates, glass slides, petri- plates, etc. **Objectivenosepiece** Coded/Motorized nose piece for easy operation. Features must be high-grade smooth operation and with positive click stops. **Condenser** Condenser with min. Working Distance of 28mm and should have at least 6 / 7 positions. **Fluorescence** Motorized Filter turret with 6 or more positions. Adjustable aperture and field diaphragms; Should have body inbuilt 4 / 5 position light intensity	1

		filter wheel / slider. Cold LED light source for the fluorescence with a minimum life span of 25000 Hrs should be quoted. **Fluorescencefilters** Fluorescence filter for DAPI (Excitation: 350/50 Dichroic: 400,Emission: 460/50), FITC(Excitation: 480/40,Dichroic: 505, Emission: 527/30), RHOD(Excitation: 546/10,Dichroic: 510, Emission: 585/40) All filters should not have any pixel shift. **Objectives** Plan Objective of 10x and 20X for phase contrast application. Fluorescence grade Objective 40X/0.55 long working distance and with correction collar WD 3.3~1.7 &100X/1.25 NA Oil. Optional: 63x/0.70 long working distance and with correction collar WD 2.6~1.8 40X, 100X & Optional 63X Objectives should be quoted with DIC accessories. **Eyepiece pair** 10x/25mm Field of View or above **CCD Camera** 2.8 MP Color & Monochromatic cooled camera with -20° C Peltier cooling, with 1920 x1440 MP & 4.54µm x 4.54 µm pixel size should be quoted. 40 fps or better, 4.54µm x 4.54 µm pixel size A/D converter 16 Bit,	

		Dynamic range > 65 dB (typical), Along with Microscopy 0.5x ~ 0.7x C-mount for Side Port and Trinocular port. **Software** Software to control motorized components of Microscope, above camera for acquisition of images in Multi-Channel Mode with Image Overlay & Interactive measurement module. Desirable branded Computer/ laptop with OS-Windows8 or more upgraded version (along with MS Office and Antivirus) for microscope- software and other work and a colour laser printer. **UPS along withspike breaker** Suitable UPS (2KV or more) is required for the whole system (running microscope and computer/ laptop) **Computer** Dell Vostro 3900 / 3902 Dell OptiPlex Mini Tower Intel® Core™ i7-4770 with Intel HD Graphics 4600 (3.4 GHz, 4 cores), 1.0TB HDD, 8.0GB (4+4) DDR3 RAM 1600MHz, SATA SuperMulti DVD writer, 6 USB 2.0, 1 VGA, 1 microphone/headphone jack, 1 line in, 1 line out, 1 RJ-45, (10/100/1000mbps), 2.0GB Graphics, 1 full-height PCIe x1, 23” wide screen Monitor, Windows 7 Prof. 32Bit **Warranty andAMC/CMC** Warranty of minimum 01 year is required & need to be included in the quote. Others Microscope, Camera & Software should be from the same manufacturer.	
33	**Specification of Microprocess**	Specification of Microprocessor based Stand alone Fluorescence spectrophotometer	

	or based Stand alone Fluorescence spectrophoto meter	• PC Independent System must have a built in high resolution large LCD display, keyboard and provision for PC operation both. • A small amount of 1 x 10^{-12}mol/L fluorescein should be detected by the low fluorescence intensity of range from 0.001 to 9999. • Should have option for quantum yield measurement. • System should be satisfied Cutting-Edge Fluorescence analysis. • Should have automatic pre scan and compatible for GFP measurement and DDE, OLE functions. • The dynamic range Should be at least 6 order magnitude or more • Should have a JIS K 0120 satisfied performance check function. • Should have monochromatic light monitoring ratio calculation function. • Measurement techniques: 3-dimensional Fluorescence measurement, automatic sensitivity measurement, measurement of wavelength accuracy and wavelength setting repeatability. prescan, Data storage capacity(minimum up to 50) • Spectral Range : Should 220-730nm, with 0-order light • Spectral Bandwidth : 2.5, 5, 10, 20nm (Both excitation and emission) • Sensitivity : High sensitivity not less than S/N 10000:1. Peak to peak S/N 800 or better (RMS) using Raman band of water Excitation wavelength 350nm, bandwidth 5 nm, response 2s. • Light source : Self-deozonating Xenon flash lamp 150 W • Detector : High Performance Photomultiplier Tube • Monochromator: Aberration-corrected stigmatic concave diffraction mechanical grating instead of Holographic grating Brazed wavelength : Excitation side 300nm,(emission side) 400nm (fluorescence side). Half value width calculation with spectrum averaging • Wavelength pre scan speed : Should 1500nm/min. • Wavelength drive speed : Maximum 12000 nm/min • Wavelength Accuracy : ±2 nm • Wavelength Repeatability : ≤ 1nm • Wavelength scan function : Provision for synchronous spectra/repetitive measurement/CAT, Linear to biquadratic differentiation, trace, scale conversion, smoothing etc • Software should have provision for controlling the instrument & its accessories & 3-dimensional time scan measurement and Data processing features such as quantitative analysis, cumulative data averaging, first to fourth order differentiation, statistic calculation, graph axis change, smoothing, area calculation ,spectrum normalization ,wavelength scan measurement, time based measurement such phosphorescence life time, 3-D measurements, Data export to Microsoft Excel etc.	1

		• Thermostatic cell holder All the above specifications should be mentioned in printed literature of manufacturer Additional weightage will be given to the vendors those are experienced having installation of at least 5 units spectroflurimeter per year for last three years.	
34	**Rotator**	The rotator which is ideal for using on a lab bench; in a small incubator or refrigerator; in a biological cabinet; or in a fume hood or any other place where space is at a premium. It should handle both large and small applications for micro centrifuge tubes and micro test tubes as well as 15 ml and 50 ml tubes. **Specifications:** Speed: Variable speed control (0-80 rpm) Ambient Temp.Range: 0°C to 40°C Electrical: Speed Control with ON/OFF Switch and protected-fuse with suitable-wire cord.	2
35	**Refrigerated Shaker Incubator**	• Temperature range: Ambient -20°C (Min. +4) to 80°C. • Competitive high shaking speed up to 500 rpm. (Stackable up to 250rpm) • Orbital shaking motion in 19.1mm diameter. • Microprocessor PID control. • Three points temperature calibration / Automatic tuning. • Wide speed range even with heavy workload. - Equipped with a maintenance-free BLDC motor to generate smooth, quiet, uniform, and yet powerful shaking motion. • Best effort run function intelligently manages its rpm to keep shaking even workload is out of its capacity. - Automatic shaking speed adjustment in case of excessive workload such as unbalanced load placement, unusual vibrations caused from unstable floor or external shock. • Pleasant test environment by the smooth acceleration and deceleration control. - Smooth start and smooth stop function prevents chemical spills from flasks or test tubes. • High-velocity fan ensures uniform temperature distribution and rapid thermal recovery after door open. • Air-tight silicone door seal to provide excellent temperature uniformity. • Intuitive touch screen LCD controller with easy icons and logical menus. • Easy-set digital timer for shaking operation. (1 min. to	1

		999 hr. 59 min.) • Wide sample monitoring. - Clear observation of samples without affecting inner chamber's environment thanks to the transparent viewing window with bright LED lamps. • Repetitive task can be easily performed as the platform stops where it starts. - Stopping the shaking platform always at the same position is highly beneficial for automated dosing or sampling process. • Two adjustable-height shelves provided allow static incubation or refrigeration, which increase storage capacity. • Built-in electrical outlet with a safety cover inside the chamber. • Corrosion resistance stainless steel interior. • Easy-access drain system with a quick disconnect valve offers great convenience to clean up of spills. • Built-in RS-232 port and USB port for external control and data collection. • Retractable foot caster, beneficial for easy mobility during installation or relocation.(optional) Chambers stackable, up to two levels.	
36	**Portable Suction Machine**	Portable Suction Machine fitted with Reuseable Filter Jars : 1 x 1.5 Ltrs. The Polycarbonate Jar fitted with lids on the side of the Suction Unit with over flow protection mechanical type Tubing is noncollapsible Vacuum Gauge has 50 mm diameter graduated. Bacterial Filter are Autoclavable and Reusable Pump is Oil Free Rocker Piston Pump Vacuum Capacity is not less than -600 mm Hg ± 10% at 15-20 LPM which is controlled by knob. Noise Level<50 dB A ± 3 Almost Whispers Motor Shared Pole Power : 220/230V AC, 50HZ , 90W The Valve: Synthetic Rubber	3
	Bench Top Compact High Speed cell sorter	Bench top flow cytometer Cell Sorter required with 488 nm /equivalent blue Laser, 633-642 nm /equivalent Red laser and 405 nm / equivalent Violet Laser. 2. The system should be based on cuvette based fixed aligned cell sorting to avoid any user level alignment while day to day run of the instrument. 3. The system should have at least 8 fluorescence/colour (10 parameters) measurement capability simultaneously, upgradable to more colours. 4. System should have minimum3 beam spots without any customization with the base instrument.	

37	**and Flow based analyzer**	5. The system must have nozzle of size of 100 microns and the nozzle tip can be removed during operation, replaced and stream optimized. 6. No manual alignment of nozzle to be done by the user even after removal and replacement of the nozzle into the system. 7. The system should be able to acquire & sort at least 25,000 or more -events/second. 8. The system should have option of automatic cell deposition unit which allows for slide and plate sorting into 6, 24, 48, 96 and 384 plates. 9. Viability & yield should be more than 90% in routine applications 10. Date Management system: Latest PC Workstation from source, with compatible monitors 11. The company should offer the latest and updated model and should have a dedicated training centre with documented proof of conducting regular training for research applications. 12. The system should be space saving and compact model 13. System must have upgradability option with Bio-safety cabinet. 14. Warranty: 1 year from the date of installation 15. Starter Kit for installation and 3 KVA Online UPS & colour laser Printer should be supplied with the system. 16. System should be installed with minimum 3 years of comprehensive maintenance contract (CMC) from manufacturer. 17. Minimum 40 lt of sheath fluid should be provided at the time of installation. 18. At least 6 Fluorescence labelled antibody of choice must be included in the package.	1
38	**Oxygraph**	1. The system Should consist of a highly sensitive Clark type Polarographic Oxygen sensor for gas And liquid phase measurement. a) Electrode output : 1µA at 21% O2 b) Response Time : 10 – 90% <5 seconds 2. Measuring Range : Oxygen: 0-100% : pH 0-14pH 3. Resolution : 0.0003% Oxygen (24 bit) : pH 0.0006pH 4. Liquid Phase Sample Volume: 0.2-2.5ml 5. Power : 230V AC, 50Hz	1

		6. Option for connecting external circulating bath to maintain different sample temperatures. 7. Micro controller based 8. Supply should be complete with all accessories, Software for PC controlled magnetic Stirrer (150-900rpm, Variable) with windows based software for PC Control with USB 2.0 Connector. 9. Should be provided with One Year Warranty. 10. After Sales Service should be provided from Kolkata office.	
39	**Thermocycler**	Gradient PCR specification: • Should have a sample capacity of 96x0.2ml tubes, 0.2ml tube strips or universal or standard 1x96-well plate of 8x12 format with six or more Peltier heating and cooling. • System which are not capable of taking plates will not be considered. • **Should have true gradient capability with Dynamic ramping technology, other technologies apart from gradient will not be considered**. • Should have the feature of dynamic ramping with identical hold times for all the 8 rows of gradient. • Should have a temperature differential range of 1-25degC across the rows. • Should have intuitive 5.7" (14.5 cm) touch screen interface which can displays graphics in high resolution for easy programming. • The touch screen should be responsive for both gloved and ungloved fingers. • Should be capable of running reaction volumes from 1-100ul. • Should have a maximum ramp rate of 4 degC/second. • Should have a temperature range of 4-100 deg C • Should have a gradient range of 30-100 deg C • Should have a temperature accuracy and uniformity of ±0.5 deg C • Should have a memory of >500 programs with further expansion through a USB Flash drive for transfer of files. • Should have block and calculated temperature control modes. • The software should be capable of exporting Run logs and system error logs • Should have quick boot up time of not more than 1 min. • Should be quiet in operation. • System should have built in library of standard protocols for long PCR, fast PCR, reverse transcription PCR etc. • Should have the feature of "Instant Incubation" to keep samples at constant temp for ligation and restriction digests. • Should have power save mode. • Should be compatible with all kind of plastic consumables and reagents specially reusable sealing Mats.	2

		• The vendor supplying the Instrument should also have the capability of supplying cDNA Synthesis Kit, Hot Start Taq Polymerase, plastic ware, and horizontal electrophoresis system with power pack from the same Principal Company	
40	**qPCR (Real Time PCR)**	• Real time PCR with block of 96 x 0.2 ml tubes or plate to Run typical 0.2ml tubes, strips, and plates. • Should have a gradient capacity with Dynamic ramping. • Should have a Detection of 2 or more different fluorescent reporters in the same tube without the use of ROX. • Should be capable of Detecting FAM/Sybr Green, VIC, HEX, TET, CAL Fluor Gold 540 or more. • The system should have a ramp rate of: $5^{O}C$ per sec or better. • Should have 6 Peltier Cooling & Heating for uniform temp control • Should have one channel dedicated for FRET experiments without the need of a service engineer to change the filters. • Should have a mass reduced block to offer better average ramp rate and 10 sec of settling time. • Should have an Excitation –Emission range of 450-580nm • No internal reference dye should be required. True 2 Color Multiplexing with use of 2 different flourophores without the need of addition of any internal reference dye, • Should have 3 filtered LEDs as an excitation source with 3 filtered Photodiodes for detection. • The system should be capable of networking with multiple systems in the future. • Should have a Dynamic range of 9 orders or more. • The system should be an Open system capable of running various chemistries so that Different chemistries using TaqMan, Molecular Beacon, SYBR green etc all can be performed. • Temperature range 0– 100 ^{O}C with accuracy of ±0.2 ^{O}C and uniformity of ±0.4 ^{O}C within 10 sec of arrival at 90 ^{O}C • Sample volume should be 1-50µl or better. • Should have built in data analysis modules with advance features like well highlighting, QC flags and custom data view assist with quick analysis. • Should be capable to perform Automatic allelic discrimination by end point fluorescence or threshold cycle. • Should be capable to perform Gene expression analysis by relative quantity (ΔCt) or normalized expression (ΔΔCt).	1

		• End point analysis for upto 2 fluorophores • Should have mode for Melt curve analysis • Comparison of upto 5000 Ct values from different data files should be possible • System should be compatible for HRM applications. • Should have the feature of Email notification with data file after run completion. • Software should have express load feature which allows entry of data after experiment. • Should be licensed for Research & IVD applications. • System should be compliant with the MIQE Guidelines • System should be provided with a license copy of qbase plus software from Biogazelle which is RDML compliant, and helps in Normalization, to access post – PCR Quality, helps in inter run calibration, geNorm, helps in bio-statistical analysis, CNV Analysis and MIQE Compliancy. • Software should be capable to import and analyze data from any real time PCR platform. • System should be supplied with a suitable computer & UPS	
41	**Binocular Dissecting Microscope**	**Binocular Dissecting Microscope** • Binocular Stereozoom Microscope with minimum zoom range 8x to 40x or higher • Free working distance minimum 110 mm or higher for easy micromanipulation operation without any supplementary optics. • The front lens should not block the oblique light path. • Eyepieces 10x both focusable with minimum field of view 23mm. completed with eye piece eyecup. • Large object field minimum 29 mm or higher • Large Stand base 190mm x 310mm or higher with built-in LED transillumination with rotatable and slidable mirror for brightfield, darkfield and oblique transillumination • Rugged Stand & driving system with load capacity 5kg • Separate controls for switching on, off or dimming of reflected or transmitted light illumination • Integrated power unit to operate on fluctuating voltage from 100...240V AC/50...60Hz • Glass and B/W plastic plate around D=85 mm • Dust cover from manufacturer.	1
	Specification	Type : Vertical Temp. Range : +4°C Volume : 221 Lit Control : Microprocessor control Refrigeration system : Air cooled, CFC free refrigeration system Display : Eye level, Digital LED display Defrost System : Automatic Defrost Temperature range : +1ºC to +12ºC (factory pre-set	

42	**for Lab Refrigerators (Single Glass Door):**	at +4ºC) Electrical system : Automatic low voltage surge protection with voltage buck/boost. Interior : Stainless steel with rounded corners for easy cleaning . Exterior Cabinet construction : Heavy gauge, cold-rolled steel exterior construction with a powder coated paint finish that resists chipping and rust . Insulation : 5 inch foamed – in – place , polyurethane insulation . Vacuum relief port : Allows easy and quick access after door opening . Inner door : 5 independent interior compartment doors to reduce cold air loss, improve temperature recovery after door closing and to help maintain Cabinet temperature during door opening . Shelves : 3 sturdy, solid stainless steel shelves to create 5 interior compartment Filter : Easy to remove air filter Access Port : Two 1 inch (25 mm) access port standard Centralized Information Centre: Microprocessor controlled monitoring system ensures all controls & displays are easy to reach and read Security Key Lock : Standard with unique key option Pad Lock Compatible : Standard. Door Lock : Sturdy integrated key lock with handle for single hand operation	2
43	**Lab Refrigerators (Dual Glass Door) :**	Type : Vertical Temp. Range : +4°C Volume : 1006 Lit Control : Microprocessor control Refrigeration system : Air cooled, CFC free refrigeration system Display : Eye level, Digital LED display Defrost System : Automatic Defrost Temperature range : +1ºC to +12ºC (factory pre-set at +4ºC) Electrical system : Automatic low voltage surge protection with voltage buck/boost. Interior : Stainless steel with rounded corners for easy cleaning. Exterior Cabinet construction : Heavy gauge, cold-rolled steel exterior construction with a powder Coated paint finish that resists chipping and rust. Insulation : 5 inch foamed – in – place, polyurethane insulation. Vacuum relief port : Allows easy and quick access after door opening. Inner door : 5 independent interior compartment doors to reduce cold air loss, Improve temperature recovery after door closing and to help maintain	1

		Cabinet temperature during door opening. Shelves : 5 sturdy, solid stainless steel shelves to create 5 interior compartments Filter : Easy to remove air filter Access Port : Two 1 inch (25 mm) access port standard Centralized Information Centre: Microprocessor controlled monitoring system ensures all controls & displays Are easy to reach and read Security Key Lock : Standard with unique key option Pad Lock Compatible : Standard. Door Lock : Sturdy integrated key lock with handle for single hand operation. Power requirements : 230 V, 50 Hz, single phase. After-sales service : Prompt and efficient after-sales service always available. Suitable servo voltage stabilizer require for operation.	
44	**Specification for (Liquid Nitrogen) LN2 Container**	Effective way to store biological samples in canes. The system can safely hold samples for extended Periods of time without replenishing LN2 • LN2 Capacity: 34.8 L • stainless canistersS, canisters have 6 unit and comes along with 2.0ml • Canister handles are color-coded for easy canister identification • Durable aluminum construction and vacuum insulation • Narrow-mouth design minimizes LN_2 evaporation • Durable aluminum construction and vacuum insulation • Lockable lid and optional low level alarm enhance sample security • Application : Portable sample Storage Vessel • Level indicator with cry alarm • Roller bases for easy portability • Total vial capacity (6/cane)-720 • Total straw capacity (10/cane)-1200 • Daily evaporation rate of 0.0 to 0.35 It/day • Static Holding time 193 Days • Neck diameter 3.5 in / 8.8 cm • Static Evaporation rate -0.5-0.7 litres per day Approx • External Dimension (D x H): 18.2 x 26.6 in (47.2 x 67.6 cm)approx • Shipping weight : 18.Kgapprox Instrument have CE Certified	2
45	**Horizontal Electrophoresis system**	1. A horizontal electrophoresis system should be able to run the gel size of 7 x 10cm & 7 X 7 cm, and 7 x 10 cm the gel tray should be supplied along with the Gel tank with safety lid. 2. The supplied gel trays should be UV proof and the trays can be directly kept on the UV Transilluminator and should have a integrated fluorescent ruler in the tray. The	2

		ruler should get illuminated on exposure to UV Light for easy and safe calculation of the band movements. 3. A system should include tape free gel casting module for leak free operations. 4. A system should include two 1.5mm combs, 8- & 15-well fixed height combs each. 5. A system should have the option for adjustable height combs with comb holders. 6. Migration rate of Bromophenol Blue dye should be similar to 4.5cm/hr(at 75 V). 7. A system should have a lid with the safety banana Jacks, which breaks the circuit when the lid is running. 8. Should be provided with a bubble leveler for even gel casting. 9. The gel caster should have 3 height adjustable screws for balancing the uneven platforms for uniform gel casting. 10. The electrodes should be color coded to remove the confusion of wrong orientation. 11. The Lid should have a safety option so that the lid cannot be closed in the wrong orientation. 12. The Lid should have a integrated cables to connect it to the power pack directly. A system should be capable to run precast ready agarose and Hand Cast gels. **Basic power supply:** Programmable power supply should be capable to operate electrophoresis units simultaneously for four identical run with graphic LED display. **The output range should be 10-300 V , 0.4-400 mA, 1-** . Constant voltage, current or Power with Automatic cross Memory storage: 9 programs , 9 steps, Timer Control : 9 59 min Automatic Power up after Power failure, Safety features No-load detection; sudden load change detection	
46	**UV Transillumin-ators**	**UV Transilluminators** Single Wavelength 302nm (15 x 8 cm)	1
47	**Water Purification system (Milli Q water)**	**Specification for Water Purification system** Water Purification system capable of independently dispensing both Type I and Type II water. • Type II able to use tap water as feed (able to accept upto 2000 micro Siemens conductivity • Tap water should be treated in a pre-treatment cartridge for efficient removal of particles, colloids, free chlorine and hardness • Reverse osmosis step should be water conservative and should ensure constant flow rate and optimal water quality • All the cartridges used should have considerable life • Should have electro deionisation or other equivalent or superior technology for removal of ions • The resin beads used should be of superior quality and should not degrade by exposure to harsh chemicals • The Resin beads should be able to be continuously regenerated	1

		without affecting its quality • The module should be able to continuously regenerate its beads used. Thereby effectively reducing operational cost • The cartridges should be easily replaceable • The replacement cartridges should not be very expensive • The Equipment should have a low maintenance cost • The generated water should be treated with UV to destroy bacteria, before it is stored in the storage tank • The storage tank should be capable of maintaining the purity of stored water • A vent filter should be there for preventing airborne contamination. • Biofilm formation should be prevented • The water dispenser should be designed such that various small filters/cartridges can be connected for obtaining specific quality water for different research needs (Ultra pure water free of particulates, pyrogens, nucleases, VOCs, endocrine disruptors and organics for LC. • Should be able to dispense pre assigned volume of water • Production rate minimum 3-5L/h • Should have calibrated meters for continuous monitoring and display of water quality parameter • Should have customisable alert and alarms. • Should meet internationally recognised safety norms • Prompt services should be available • A minimum warranty for one year. • AMC terms & conditions beyond the warranty period to be specified • **Three separate quote should be made: -** 1) Water purification system for Type I quality water. 2) Water Purification system for Type II quality water. 3) An integrated water purification system capable of producing and dispensing both Type I and Type II water. • Type I water with the following properties o Resistivity (MΩ-cm) = 18.2MΩ•cm @ 25 deg C o Conductivity (µS/cm) < 0.055 µS/cm o TOC ≤5ppb o Bacteria 0.22µm) < 1 o Chloride (ppb) < 1 o Total Silica (ppb) < 3 o Flow rate = 2L/min • Type II water with the following property o Resistivity (MΩ-cm) = 12-15 MΩ•cm @ 25 deg C, or more o Conductivity (µS/cm) 0.22µm) < 5 o Chloride (ppb) < 5 o Total Silica (ppb) < 3 o Flow rate = 2L/min	
48	**Cryostat with Microtome**	Specification : Freestanding, handwheel with marking, Low-temperature stabilizer for heat extractor motorized open-top cryostat with independent specimen temperature control. 1. Prism of 90° for direct specimen freezing on specimen head with clamping screw to facilitate specimen trimming. Removable heated glass sliding window. 2. Cooling via two separate refrigeration system. 3. Cryochamber temperature setting down to -40 °C in 1° steps. Permanently cooled (down to -45°C) quick-freeze shelf for 10 specimen discs. 4. Programmable automatic 24-hour defrost cycle. Defrost cycle duration programmable from 6 to 12 minutes. Additional manual defrost feature. 5. Menu-driven Counterbalanced handwheel, lockable in two positions, for manual sectioning. Locking status indicated on display. 6. Motorized sectioning: Motorized sectioning operated via control panel and foot switch. Section counter with reset. Sectioning window adjustment. Handle of the handwheel can be centered in motorized operation. Emergency stop switch. 3 sectioning modes: intermittent, single and continuous stroke. Sectioning speed ranges selectable: 0.1 - 170 mm/s 0.1 - 100	

		mm/s Additional maximum speed setting of: 210 mm/s 7. Specimen temperature control: Specimen head with specimen temperature control. Temperature setting range: -10 °C to -50 °C in 1° increments. Specimen quick-freeze feature. Manual defrosting. 8. Stainless steel rotary microtome. Section thickness range:0.5 to 300 µm X/Y/Z specimen precision orientation of 8°. Specimen retraction: 50 µm maximum specimen size 40 mm x 55mm (maximum of 55 mm diameter). 9. Total horizontal specimen feed: approx. 25 mm Total vertical stroke: approx. 60 mm Programmable trimming: 5 - 150 µm, selectable in 6 discrete steps, in 5, 10, 30, 50, 100 and 150 µm increments. Motorized coarse feed: 500 µm/s and 1000 µm/s. 10. Convenient section thickness selection from outside the cryochamber. Reproducible high-quality thin sections via step motor specimen feed Programmable reverse section counter. 11. Spacious cryochamber, easy to clean/disinfect Section thickness totalizer Encapsulated microtome to support efficient low-temperature spray disinfection. 12. Technical Data: Mains power supply: 230 V/50 Hz Dimensions: Width (incl. handwheel): 882 mm / 34.72 inches Depth: 766 mm / 30.16 inches Height: 1,040 mm / 40.94 inches Weight: approx. 180 kg / 396.48 lbs. All specifications related to temperature are valid for a room temperature up to 22°C and a relative air humidity of 60 %. 13. One set of specimen discs 25 and 30mm each, Storage shelf, section waste tray, rubber mat, brush shelf 1 tool set, fine brush 1, 1 brush with magnet, 1Set of Allen keys, 1 Set of Single-head wrench, 1 Bottle of OCT Compound, mounting medium for cryosectioning, 125 ml 1 Bottle of cryostat oil 50 ml. Knife holder base for CN and CE holder, Knife holder CE for high profile disposable blades with lateral displacement features, High profife disposable blades (80mm long, 14mm high total 50 blades, 4 each), 5 each embedding medium for cryosectioning (OCT compound) 125ml	

1. **General Instructions:**

   In the event of e-tendering, intending bidder may download the tender documents from the website: **http://wbtenders.gov.in** directly with the help of Digital Signature Certificate (DSC) or from the Cooch Behar PanchananBarma University website **www.cbpbu.ac.in.**

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 Rs.30 lakh in India or equivalent foreign currency in the respective foreign country for the year 2014-15, 2015-16& 2016-17 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. **Notice Inviting Tender (NIT)** – The NIT as published is to be downloaded and then uploaded the same digitally signed *(to be submitted in "NIT" folder).*

2. **Annexure** –
   a) BasicInformation (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)*

3. Technical details of the Items Quoted (Bidders must submit Technical specification along with Catalogue of the item quoted in **"Technical Details"** Folders.

4. Bidder must submit Audited Balance Sheet and Profit and loss Account for last 3 (three) financial year namely 2013-14, 2014-15 & 2015-16 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
			VAT/ CST /GST Registration Certificate
			Exemption Certificate for paying EMD for the current financial year (if any)
2	Company Details	Company Details 1	Trade Licence/Enlistment Certificate
			Registration with Registrar of Companies
			Memorandum of Articles for Limited Companies.
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 Assessment year 2014-15
			Income Tax Returns submitted for the Assessment year 2015-16
			Income Tax Returns submitted for the Assessment year 2016-17
		Payment Certificate 2	VAT/CST/GST Returns (of the last quarter) for the year 2014-15
			VAT/CST/GST Returns (of the last quarter) for the year 2015-16
			VAT/CST/GST Returns (of the last quarter) for the year 2016-17

6.3 Financial Bid

The Financial Bid should contain the following document in one cover (folder):

Bill of Quantities (BOQ): The tenderer is to fill-up the designated cell as marked by the University in the BOQ under online mode through computer for preparing their quotation and thereafter tenderer will have to upload the same after digitally signed as submission of their quotation (Only downloaded copies of the BOQ as available in the web portal are to be uploaded without changing the name of the BOQ file after virus scanned and digitally signed by the tenderer)

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 on line 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 beopened 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**:

a) **Partial Quotation within the same item serial number as mentioned in BOQ and also in this NIT will not be accepted and tender will be liable for cancellation.**

b) 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.

c) 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.

d) Currency will be made either in INR or from any of the foreign currencies like USD, GBP, EURO and JPY.

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 contract shall be made item wise as per Item Serial number of the List of Items as shown in Clause 15.** 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 the comprehensive onsite warranty (3/3/3-part/labour/onsite) in all respect of the equipment's, accessories etc. including spares and services for a

period of three years from the date of installation. Warranty will be effective from the date of joint installation Report.

9.5 **Adequate support service facility**: The bidder/manufacturer should have adequate service support centre in Kolkata for any emergency breakdown/fault offering facility within 48 hours and should be agreeable to provide AMC facility after the warranty period.

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

9.7 **Manufacturer's Authorisation**: Document in support of Manufacturer/Dealer and Service Provider has to be submitted along with the tender paper. If the bidder is not the manufacturer, proper manufacturer's authorization and warranty from manufacturer is required.

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**: The Cooch Behar PanchananBarma University will provide the necessary certificate at the time of purchase.

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 three 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**: Department of Geography, Cooch Behar PanchananBarma University, Cooch Behar -736101.

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) 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, VAT, 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.30 lakh in three financial year ending 2015-16.

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 **Conversion of FC Rate**: Generally, the West Bengal Government Portal is equipped enough for conversion of Foreign Currency (FC) rate into INR. In case of any problem arising out of the West Bengal Government Portal for e-tender regarding the conversion rate against foreign currencies quoted by the bidders in the BOQ, the conversion rate as existing in the official website of the Reserve Bank of India (RBI) as on the date of opening the Financial Bid will be considered for Financial Bid Evaluation.

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 hereinabove for selection of responsive vender.

10. Dates & Information:

Sl.No.	Activities	Date & Time
1	Date of uploading of N.I.T. Documents in the e-tender portal of NIC :https://wbtenders.gov.in	28.12.2017
2	Documents download (online)	28.12.2017 (from 6.00 p.m.)
3	Bid Submission Start Date(on line)	28.12.2017 (from 6.00 p.m.)
4	Bid Submission Closing Date (Online)	17.01.2018, (up to 11.00 a.m.)
5	Bid Opening Date (Online) – Technical Bid	19.01.2018 (from 11.30 a.m.)
6	Date of uploading list for technically qualified bidder (online)	To be notified
7	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

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 N.I.T. due to unavoidable

Circumstances and no claim in this respect will be entertained.

14. **STEPS TO BE FOLLOWED FOR SUBMISSION OF E-TENDER**

1. SEARCHING THE TENDER

After Login on www.wbtenders.gov.in with DSC Click on Search Active Tenders

In Keyword writes Tender Reference No. / Tender memo. No. or put Tender ID and click on submit on NIC website.

2. DOWNLOADING THE TENDER DOCUMENTS

After searching the particular tender, you will find NIT & BOQ and other document, click on those to download and save the documents.

Then fill the login Id and password which is written on top or your own login id and password; the same page will appear again click on NIT & BOQ to download.

While downloading the BOQ please do not change the name of the BOQ and quote as per the exact Accounting Unit, as mentioned.

3. UPLOADING DOCUMENTS UNDER "MY DOCUMENTS" FOLDER

First upload all the "My Documents" before starting the Bid Submission process.

While starting the Bid submission process after the EMD payment you will find an option "Do you want to submit Other Important Documents".

Here click on YES to submit the MY DOCUMENTS and then tick mark the check boxes to tag those documents in that particular tender.

4. UPLOADING DOCUMENTS UNDER "STATUTORY COVER" FOLDER

First upload Tender Document (Other than BOQ) with digital signature in **NIT Folder**.

Thereafter, upload Scanned Copy of all Annexure in the **Annexure Folder**.

5. BOQ

While first opening the BOQ there is an option at top of the rows. “Security warning Macros have been disabled” Click on Options.

Select “Enable the content” then OK. This will enable you to visualize the BOQ.

Select the Currency (INR, USD, JPY, EUR, GBP) type from drop down list while quoting the amount against each item.

Upload BOQ in the “BOQ Folder” under “Financial Cover” after filling up financial data in the appropriate columns

6. ITEM WISE DETAILS

Select that item as Yes/No from drop down list which item bidder wants to quote the amount.

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 Licence No.** **(Please enclose copy of Trade Licence)**	
6	**PAN (Please enclose copy of PAN Card)**	
7	**VAT No. (Please enclose copy of VAT)**	
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**	**2014-15 :Rs……** **2015-16 :Rs……..** **2016-17 :Rs…….** **Average Annual Turnover: Rs……..**
10	**Status of the bidder (Please enclose copy authenticating your status)**	**Manufacturer/Dealer/Distributer/Selling Agent/Stockiest** **(Please put tick mark)**

I hereby declare that the above information is true and correct to the best of my knowledge and belief. In case of any false/wrong/misleading information, I shall be bound to take the decision taken by the University.

Signature of the Bidder

(With Seal)

Annexure II

APPLICATION FOR TENDER

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

To
The Head

Department of Zoology
Cooch Behar Panchanan Barma University
Cooch Behar-736101
West Bengal

Sub: NIT for the Supply of **different Instruments** for the purpose of Departmental requirement

Ref: - _____N.I.T. No ……..…..……dated ……..

Sir,

Having examined the pre-qualification & other documents published in the N.I.T, 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 with manufacturing capacity and assured supply to the Cooch Behar PanchananBarma University.

Sl. No.	Description of Items	Make	Model No.	Quantity	Offer Validity

4. 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:

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, Email 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 NIT 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

ANNEXURE IV

(Affidavit Proforma)
(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 Chemicals, Lab. Chemicals & Laboratory Equipments 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(s).