

eProcurement System of Government of West Bengal

Tender Details



Date : 20-Oct-2022 05:17 PM

**Basic Details**

Organisation Chain	DEPARTMENT OF HIGHER EDUCATION NETAJI SUBHAS OPEN UNIVERSITY		
Tender Reference Number	AC/225/22-23		
Tender ID	2022_DHE_416641_1		
Tender Type	Open Tender	Form of contract	Item Rate
Tender Category	Goods	No. of Covers	2
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	Yes
Payment Mode	Not Applicable	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No

Cover Details, No. Of Covers - 2

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	NIT
2	Finance	.xls	BOQ
		.pdf	BOQ
		.pdf	INSTRUMENTS DETAILS

Other Important Documents

S.No	Category	Sub Category	Sub Category Description	Format/File
1	CERTIFICATES	GST Registration Certificate	GST Registration Certificate	
2	CERTIFICATES	Permanent Account Number	Permanent Account Number	
3	COMPANY DETAILS	COMPANY DETAILS 2	COMPANY DETAILS 2	
4	CREDENTIAL	CREDENTIAL 1	CREDENTIAL 1	
5	DECLARATION	DECLARATION FILE 1	DECLARATION FILE 1	

Tender Fee Details, [Total Fee in ₹ * - 0.00]

Tender Fee in ₹	0.00		
Fee Payable To	Nil	Fee Payable At	Nil
Tender Fee Exemption Allowed	No		

EMD Fee Details

EMD Amount in ₹	0.00	EMD through BG/ST or EMD Exemption Allowed	No
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	Nil	EMD Payable At	Nil

[Click to view modification history](#)
Work /Item(s)

Title	AC/225/22-23
Work Description	laboratory instruments and apparatus
Pre Qualification Details	Please refer Tender documents.
Independent External Monitor/Remarks	NA
Show Tender Value in Public Domain	No

Tender Value in ₹	0.00	Product Category	Laboratory and scientific equipment	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	270	Period Of Work(Days)	15
Location	KALYANI	Pincode	741235	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	KOLKATA
Should Allow NDA Tender	No	Allow Preferential Bidder	No		

Critical Dates

Publish Date	21-Oct-2022 05:00 PM	Bid Opening Date	14-Nov-2022 12:00 PM
Document Download / Sale Start Date	21-Oct-2022 05:00 PM	Document Download / Sale End Date	11-Nov-2022 06:00 PM
Clarification Start Date	NA	Clarification End Date	NA
Bid Submission Start Date	21-Oct-2022 05:00 PM	Bid Submission End Date	11-Nov-2022 06:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)
	1	Tendernotice_1.pdf	NIT	941.67

Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	BOQ	BOQ_821434.xls	BOQ	266.50

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	sachindrakar@yahoo.in	SACHINDRA CHANDRA KAR	SACHINDRA CHANDRA KAR
2.	debanjanhr@gmail.com	DEBANJAN GHOSHAL	DEBANJAN GHOSHAL
3.	gopaldas1984@gmail.com	Gopal Das	GOPAL DAS

Tender Properties

Auto Tendering Process allowed	No	Show Technical bid status	Yes
Show Finance bid status	Yes	Show Bids Details	Yes
BoQ Comparative Chart model	Normal	BoQ Compative chart decimal places	2
BoQ Comparative Chart Rank Type	L	Form Based BoQ	No

Tender Inviting Authority

Name	FINANCE OFFICER
Address	Netaji Subhas Open University,HQ, DD 26, Sector I, Salt Lake, Kolkata-700064

Tender Creator Details

Created By	SACHINDRA CHANDRA KAR
Designation	FINANCE OFFICER
Created Date	20-Oct-2022 05:11 PM



Notice Inviting Tender

Memo No: AC/225/22-23

Dated: 20-10-2022

Online quotations through website <https://wbtenders.gov.in> are invited from competent and bonafide vendors/ distributors/ dealers/agents/ manufacturers for supply and installation of laboratory instruments and apparatus at Kalyani Regional Centre, School of Sciences, Netaji Subhas Open University, Ghoshpara Station Road, Kalyani, Nadia, West Bengal subject to the following terms and conditions. Interested bidders are to participate in the bidding process as per specifications and conditions mentioned below in the Annexure - I, II & III.

DATE AND TIME SCHEDULE

Date of Publication of Tender Online through website https://wbtenders.gov.in/	21.10.2022 after 17.00 Hrs.
Date of Document Download Start	21.10.2022 after 17.00 Hrs.
Date of Bid Submission Start	21.10.2022 after 17.00 Hrs.
Date of Bid Submission Closing	11-11-2022 before 18.00 Hrs.
Date of Opening of Technical Bid	14-11-2022 on or after 12.30
Date of Opening of Financial Bid	To be notified later

Contact No. 98305 47592 / 9051162059

Finance Officer
Netaji Subhas Open University
DD-26, Sector -1, Salt Lake, Kolkata-700064
Email: sachindrakar@yahoo.in
Mobile No: 9432747119



ANNEXURE - I

TECHNICAL SPECIFICATION

1. The Bidders should have Experience in similar type of supply as specified in Annexure II at least for 3 years.
2. The supplier must have the credential of supply of similar type of items to the Educational Institute/Government Office.
3. The Bidders should have legal compliance such as: (1) GST Number, (2) PAN / TAN , (3) Trade License.
4. The Bidder must be Original Equipment Manufacturers or must have the Authorized dealer certificate

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ANNEXURE – II

Specifications:

Sl. No.	Instrument Generic Name	Preferred Make/Model	Technical Specifications
1	Laboratory Water Purification System	Laboratory Water Maker Make: ION EXCHANGE Model: LAB Q Laboratory Water Maker with 10 LPH Flow	<p>Features:</p> <p>Online Conductivity Meter: Displays product water quality for continuous monitoring</p> <p>Automatic Flush Device (AFD): Ensures periodic cleaning of the filter system</p> <p>Dry Run Protection: Ensures protection of the pump when inlet water is unavailable</p> <p>Feed Water Specifications TDS 500PPM MAX</p> <p>Fe, Mn NIL</p> <p>Free Chlorine NIL</p> <p>Silica <20PPM</p> <p>TOC <3 ppm</p> <p>Inlet water pH 6.8 ~ 8.5</p> <p>Dissolved CO2 <3 ppm</p> <p>Inlet Pressure 0.5-2.0 Kg/cm²</p> <p>Product Water Specifications Product Flow 10 LPH</p> <p>Pure Water Conductivity <0.1 Micro Siemens/cm</p> <p>Pure Water Resistivity >1 MΩ</p> <p>Turbidity <1 NTU</p> <p>Total Organic Carbon (TOC) <200 ppb</p>
2	Trinocular Digital Microscope with	DEWINTER 'PRIME' TRINOCULAR LED	Optical System



	Camera attachment	ILLUMINATION MICROSCOPE WITH 'DGI-510' 5 MEGA PIXEL USB 2.0 CAMERA ATTACHMENT AND 'CALIPER-PRO' SOFTWARE	<p>IOS (Infinity Optical System)</p> <p>Binocular Observation Head</p> <ul style="list-style-type: none">• Siedentopf observation head inclined at 30⁰, rotatable at 360⁰.• Diopter adjustment ring on ocular tube.• Interpupillary distance from 48mm to 75mm. <p>Trinocular Tube for using Microscopic Camera attachment</p> <p>Objectives(Infinity Plan)</p> <ul style="list-style-type: none">• Infinity Plan 4X (N.A. 0.10 W.D. 6.73 mm)• Infinity Plan 10X (N.A. 0.25 W.D. 4.19 mm)• Infinity Plan 40X (S.L) (N.A. 0.65 W.D. 0.45 mm)• Infinity Plan 100X Oil (S.L) (N.A. 1.25 W.D. 0.12 mm) <p>Eyepieces</p> <p>EWF 10X (Paired) FOV 20mm with eyeguard.</p> <p>Mechanical Body</p> <ul style="list-style-type: none">• Co-axial focusing system.• Pre-focussing Lever & Tension Adjustment Ring. The slow motion has 1 Div=0.02mm.• Reverse angle quadruple nosepiece revolves on ball bearing.• Mechanical stage size 155mm x 140mm having low positioned controls.• Cross movement 55mm x 75mm.
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			<p>Sub Stage Condenser</p> <p>Abbe condenser N.A. 1.25 with Aspheric lens and marked iris diaphragm relevant phase slider fitted in metal made rack and pinion.</p> <p>5 MEGA PIXEL CMOS CAMERA ATTACHMENT WITH 'CALIPER-PRO' IMAGE CAPTURE AND MEASUREMENT SOFTWARE</p> <p>Sensor : 1/ 2.5" CMOS,MICRON</p> <p>Resolution : 2592×1944(8bit)</p> <p>Pixels Size : 2.2µm? 2.2µm</p> <p>Frame Rate : 8fps@2592×1944</p> <p>Shutter : Electronic</p> <p>S/N Ratio : 43 dB</p> <p>Scanning Mode : Progressive scanning</p> <p>Sensitivity : 1.0 V/ lux-sec (550nm)</p> <p>Data Interface : USB2.0 (480 Mbit / sec)</p> <p>Power Supply : DC 5V ± 5%</p> <p>Electricity : ~ 200 mA</p> <p>White Balance : Manual/Auto one-touch</p> <p>Exposure control : 10µs–32ms,Auto exposure</p> <p>Software : Caliper-Pro / Capture-Pro</p> <p>Operating Temp : 0°C ~ 60°C</p> <p>'CALIPER-PRO' BIOLOGICAL NEW GENERATION IMAGE ANALYSIS SOFTWARE AND MEASUREMENT SOFTWARE FOR SCIENTIFIC AND MICROBIOLOGIST ANALYSIS IN THE SIMPLEST WAY.</p> <p>IMAGE EDITING</p>
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			<p>Cut, Copy and Paste, Selected copy by free hand AOL controlled by Four arrow keys</p> <p>available on keyboard or mouse with zoom preview. Crop, duplicate, restore, Resize,</p> <p>Compression, Conversion to other Format BMP, JPG, TIF, PNG, GIF & PSD, Flood</p> <p>fill or spray with Selected colour at selected portion. Write text in any colour or font.</p> <p>Pointer to place on an object in four directions with provision to Change its colour</p> <p>& thickness. Eraser works only on line, arrow or on any drawing tool. (not on real time image).</p> <p>VIEW</p> <p>Zoom in/out, Zoomed preview, Full Screen, Rotation at 90^o, 180^o, 270^o, or custom Image flipping;</p> <p>horizontal or vertical axis, Intensity histogram, Image Information, Redo/Undo on all</p> <p>operations, Ruler in Various units, Slide show.</p> <p>IMAGE PROCESSING</p> <p>Background subtraction and contrast enhancement of colour or Monochrome images,</p> <p>Arithmetic image functions (Boolean Math; Add, AND, OR, XOR, DIFF, MIN, MAX,</p> <p>+ , - , / , x , And Simple)</p> <p>ROUTINE FILTERS</p> <p>Invert, Brightness, Contrast, Hue, Saturation, Blur, Noise, Remove, Emboss, Engrave, Gamma R, Gamma G, Gamma B, Yellow, Magenta, Cyan, Mosaic, Smooth,</p> <p>Desaturation, Pseudo Colour, Colourize, Oilify, Despeckle, Postarize,</p>
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			<p><u>MORPHOMETRY</u> Skeleton zing, Pruning, SKIZ, Histogram Equalization, Histogram Smoothing, Histogram Peak, Histogram Valley, Segmentation by Over Under and Quintiles, Contouring, Dilation / Erosion on Binary, Gray& coloured images, Opening / Closing on Gray& Binary Images. Special Opening / Closing, Split / Combine of RGB, YUV, YIQ, XYZ & HSL, Changing any images to 1, 4 8 & 24 Bits, Medial Axis. Transformation, Halftone, Image Addition, Image Average, Image Subtraction, Image Multiplication.</p> <p><u>MEASUREMENT</u> a) Spatial calibration. b) Line measurements for Distance, Length, Width, Perimeter, Angle, Three point Radius. c) Area by enclosed line controlled by four arrow keys available on Keyboard Arrows with zoomed preview.</p>
3	Student Upright Microscope (Compound) (2)	DEWINTER EDUCATOR- JUNIOR STUDENT MEDICAL MICROSCOPE	<p>Monocular Straight tube tube length 160mm. Precision Fine focusing system reading to 0.002mm Separate Coarse and Fine focusing Knobs. Quadruple revolving nosepiece. Plano Concave reflector or mirror. Graduated mechanical stage size 125mm x 140mm supported on ball bearing Guides and having low positioned separate X-Y movement. Abbe condenser N.A. 1.25 with iris diaphragm and filter holder, moveable on rack and pinion. Filter : day light cobalt filter Semi Plan Objectives : SP-4x, SP-10x, SP-40x & SP-100x Oil Immersion (SP-Semi Plan) Eyepiece : WF-10x & H-5x or H-15x (Any 2 Nos. Eyepieces) confirm which eyepieces required by user.</p>



			<p>Supplied Complete with Rechargeable Li-Ion Sub-Stage LED Illuminator for Artificial Light attachment.</p> <p>Finish : Matte Grey</p>
4	STEREOSCOPIC MICROSCOPE	'STEREOMASTER-PLUS' STEREO BINOCULAR MICROSCOPE	<p>Optical System : Parallel Beam Type Optical System</p> <p>Observation Head : Observation head inclined at 45 °. 360 Rotatable. Diopter adjustment</p> <p>ring on left ocular tube. Diopter adjustment range : ±5</p> <p>IPD : Interpupillary distance from 52mm to 75mm.</p> <p>Eyepieces : Extra wide field 10X (paired) F.O.V. 22mm. with Rubber Guard.</p> <p>Objectives : 2x & 4x</p> <p>Objective Changer : Turret Type (Dual Step)</p> <p>Visual Field : 2X: Visual Field 10mm-Total Mag. 20X. 4X: Visual Field 5mm-Total Mag. 40X</p> <p>Stand, Holder & : Safe and durable Pole stand having holder for grip head with rack</p> <p>Focus Drive & pinion focus drive, focus knob can be adjusted with one or both hands.</p> <p>Durable and precise dove-tail stand secures microscope head in place.</p> <p>Base : Ergonomic fan-shaped base is easy on the wrist for long hour operation</p> <p>and provides larger working area than arectangular base with twin Stage</p> <p>Clips. Size : 218 x 170 x 56 mm.</p>



			<p>Plates for Specimens : Moulded Black & White Plate for Opaque specimens and Clear Glass Plate for Transparent Specimens. Plate Size : 95mm.</p> <p>Working Distance : 2x Objective W.D. 88mm. Mag. Range : 20x</p> <p style="text-align: right;">4x Objective W.D. 64mm. Mag. Range : 40x</p> <p>Illumination : Reflected and transmitted light system with LED lamp. Lamp Life 30000 hrs.system regulated with intensity control knob (Latest Light Technique). LED lamp life 30000 hrs.</p> <p>No recurring cost for Lamp till 7-10 Years.</p> <p>Accessories : Dust Cover, Power Cord (Indian), Warranty Card, Packed in thermocole molded container.</p>
5	Microtiter Plate Reader/ELISA Reader	ELISA Plate Reader Merilyzer EIAQ.Jant	<p>Semi Automated ELISA Plate Reader EIAQuant is a Semi Automated ELISA Plate Reader that uses high quality optical system and sophisticated embedded computer control technology which enables the user reliable measurement and data analysis with minimum maintenance</p> <p>8 Channels Fiber optic optical system Standard Filters installed (405 nm, 450nm, 492 nm, 630 nm) Band width 400 -700 nm High Dynamic Range 0-4 OD Monochromatic and Biochromatic Reading for accuracy Reading Speed : 6,5 seconds at Single Wavelength 16 seconds at Dual Wavelength 50 different Test Parameters on board storage Up to 150 Plate or 14000 Sample results can be stored 3 Curves Per Parameter can be stored</p>
6	LAMINAR AIR FLOW (HORIZONTAL)	Brand : DIGITECH Model:LAF422	<p>CONSTRUCTION: Full body is made of Powder Coated Iron Sheet. Work-table is made of S.S. Sheet. Top and side panels are of 6 mm thick transparent plexi glass duly framed.</p>



			<p>AIR FLOW FILTRATION: Laminar air flow principle involves double filtration of air. Atmospheric air is drawn through pre-filter and is made to pass through H.E.P.A. (High Efficiency Particular Air) filter having efficiency rating 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. Speed controls provides average flow rate of 90 fpm ± 10 fpm.</p> <p>BLOWER MOTOR ASSEMBLY: Statically and dynamically balanced, direct drive sized to provide adequate air flow volume over the entire surfaces of HEPA filter. Fitted with ¼ H.P. motor and operates with minimum noise level i.e. lower than 65 db.</p> <p>LIGHTING: Work area illuminated by diffused, glare free fluorescent light.</p> <p>POWER: 220/230 volts, single phase, A.C. mains only.</p> <p>COMPLETE WITH:</p> <ul style="list-style-type: none"> a) Satin finish S.S. Table top b) Transparent Front door. c) Static Pressure Inclined DIGITAL MANOMETER. d) Built in U.V. Germicidal Light. e) Cock for Gas, Air of vacuum line. <ul style="list-style-type: none"> • WORKING AREA 4' X 2' X 2' • SIZE OF HEPA FILTER 4' X 2' X 6" • NO. OF HEPA FILTER (SUPP. WITH UNIT) 1 • NO. OF PRE-FILTER (SUPP. WITH UNIT) 1 • ILLUMINATION 1 no. fluorescent light and 1 no. of 2 ft. UV Germicidal Light
7	Microcentrifuge	REMI-RM 03Plus	Rotor Capacity 12 place closed rotor with metal safety lid



			<p>Maximum Speed RPM / RCF (g) 15000 rpm / 15596 g</p> <p>Display Large Backlit LCD display</p> <p>Imbalance detection Imbalance Detection with auto cut – off</p> <p>Noise Level ≤ 60 dB</p> <p>Motor Type (BLDC) Brushless DC motor</p> <p>Timer setting 1 to 999 mins</p> <p>Speed / Time setting 500 to 15000 RPM / Min-Sec timer</p> <p>Dimensions (WxDxH) in mm 230 x 262 x 131 mm</p> <p>Rotors and Adaptors</p> <p>(included in standard pack) 12 place x 1.5/2.0 ml microtubes</p> <p>Reduction Adaptors for 0.2 ml microtubes</p> <p>Reduction Adaptors for 0.4/0.5 ml microtubes</p> <p>PCR Strip Rotor (2 x 8 x 0.2 ml with metal safety lid)</p>
8	Routine Centrifuge with Swing-out Heads	REMI-R8MPlus with S8-15 & S6-50	<p>Laboratory Centrifuge (max. speed 6000 rpm) with brushless induction motor, frequency drive, LCD display of speed and time, imbalance detector, dynamic brake, safety lid lock, acceleration / deceleration profiles and rotor identification, supplied without rotors and accessories</p> <p>Swing out rotor suitable for 8 tubes of 15ml (supplied with glass tubes)</p> <p>Swing out rotor suitable for 6 tubes of 50ml (supplied with glass tubes)</p>
9.a	Mini Submarine / Horizontal Gel Apparatus	Mini Sub System: Small model gel size 10 x 7 cm (for 8 samples) Brand: GeNei Cat No: 106470GB	<p>Principal Material : Acrylic</p> <p>Inner tank dimension : 190 x 80 x 55 mm</p> <p>No. of trays :</p> <p>100 x 70 mm - 1 No.</p> <p>50 x 70 mm - 2 Nos.</p>



			<p>No. of combs</p> <p>: 8 Well Analytical Acrylic Comb 1.5 mm thick x 2 Nos.</p> <p>3 Well Preparative Acrylic Comb 3 mm thick - 1 No.</p> <p>No. of gel casting tray: 1 universal.</p> <p>Connecting Cord: red and black (1 each).</p> <p>No. of Platinum electrodes: red and black (1 each).</p> <p>Lid: 1 No.</p>
9 b	Mini Vertical Gel Apparatus	Vertical Mini Gel System: Mini model gel size (8 x 7) cm, (HxW) for 7 samples Brand: GeNei Cat No. 106680GB	<p>Principal Material : Acrylic</p> <p>Upper Buffer Tank Dimension : 70 x 60 x 40 mm</p> <p>Lower Buffer Tank Dimension : 130 x 60 x 50 mm</p> <p>No. of Combs:</p> <p>7 Well Teflon Comb 0.5 mm -1 No.</p> <p>7 Well Teflon Comb 1 mm-1 No.</p> <p>7 Well Teflon Comb 1.5 mm -1 No.</p> <p>Teflon Spacers:</p> <p>0.5 mm Teflon Spacers 2 Nos.</p> <p>1 mm Teflon Spacers 2 Nos.</p> <p>1.5 mm Teflon Spacers 2 Nos.</p> <p>Connecting Cord: red and black (1 each)</p> <p>No. of Platinum electrodes: red and black (1 each).</p> <p>Lid: 1 No.</p> <p>Leveling screws: 3 Nos.</p> <p>Glass plate: Notched and Rectangular 2 sets.</p> <p>Gasket: Fixed</p> <p>Clamp and screws: 1 set.</p>



NETAJI SUBHAS OPEN UNIVERSITY

DD 26, Sector – I, Salt Lake, Kolkata – 700064

Website: wbnsou.ac.in, Tele-Fax: 03340663224, Ph: 03340663213

9 c	Mini gel transfer/blotting apparatus	Electro Transfer Mini System Make : Genei Cat No. : 106816GB	Principal Material: Acrylic Buffer Reservoir: 1 no. Buffer Volume: 350 ml. Gel Cassette: 1 no Gel Size: 8 x 7 cm Filter pads: 6 nos. Cushion Pads: 12 nos. Connecting cord: 1 set (1 black and 1 red) No. of Platinum electrodes cells: 1 anode and 1cathode. Lid: 1 no.
10	Electrophoresis Power Supply Apparatus (Power Pack)	Power Pack for Gel Apparatus Brand: GeNei EPS 500 Model; 0-500 V; 0-500 mA; Variable with timer Constant Current ; Constant Voltage ; Digital display	Output DC Voltage: 0-500Volts variable Output current: 0-500mA Variable Output: Two parallel outputs,4 mm socket Display : Digital Timer : 15mins. to 4 hours Body : MS with powder coated body Size : 360 x 285 x 160 mm Weight : 3 kgs approx. Input Voltage : 230V, 50Hz, A.C. Supply
11	Reagent Freezer	Reagent Freezer Remi RLR-400	400 Liters capacity, Plastic inner chamber & outer body of G.I, temperature range 1°C to 10°C
12	Vortex	Vortex/Cyclo-Mixture REMI CM-101 with CM-01 & CM-03	Power (W) 32 Shaking Movement Orbital Orbital Diameter (mm) 4 Motor Type Shaded-Pole Motor Permissible ON time 100% power 30mins Speed range (rpm) 0-2500 Run Type Continuous / touch operation



			<p>Dimensions (mm) 178 x 141 x 148</p> <p>Weight (kg) 3.6</p> <p>Protection Class acc. To DIN 60529 –</p> <p>Supply 220/240 Volts, 50 Hz</p> <p>Interchangeable Mixing Heads</p> <p>Models Description</p> <p>Universal top plate 100 mm-plate attachment</p> <p>Tube adapter for 18 holes test tubes ϕ 10mm (use with CM-01)</p> <p>Platform pad for $<\phi$99mm tubes and small vessels (use with CM-01)</p> <p>Tube adapter for 8 holes test tubes ϕ 20mm (use with CM-01)</p>
13	Laboratory Stirrer with Teflon pestle & 4 cross-blade	Laboratory Stirrer with Teflon pestle & 4 cross-blade REMI RQ-5Plus	<p>Max. stirring capacity (Water) (Liters) 5</p> <p>Motor Type BLDC</p> <p>Motor rating 10 watt</p> <p>Speed range [rpm] 50-1500</p> <p>Speed display LED</p> <p>Timer 0 to 99 Minutes</p> <p>Motor Overload protection LED light flash, auto stop</p> <p>Chuck (mm) 1.5 to 10</p> <p>Stirring Shaft x length (mm) 6 x 380 mm</p> <p>Impeller Type / (mm) Axial Turbine / 36</p> <p>Dimensions [W x D x H] (mm) 80 x 180 x 370</p> <p>Stand length (mm) 500</p> <p>Weight [kg] 6.5</p> <p>Power [W] 10 watt</p>



14	Magnetic Hot-plate Stirrer	REMI 2 MLH	Magnetic stirrer 2 litres capacity with hot plate & Digital Speed Indicator.
15	Vertical Autoclave 40 lt./ medium size Local Make (will be used frequently-good quality needed)		Autoclave size is 14x22 inch Capacity is 52 liters With pressure cutoff switch, safety Valve, pressuremeter The inner chamber is 304 grade stainless steel heavy gauges. Outer chamber is stainless steel. The unit has wing nut type locking arrangement Model joint less silicon rubber gasket is provided for leak proofing Supplied heating 220/230v, 50 Hz ac. Digital temp ctrl with timer and buzzer alarm. Water level indicator. Water level cut off switch. Water drain valve. Digital temp ctrl cum indicator
16	Autopipette and Steripipette a. 1-10µl b. 10-100 µl c. 100-1000 µl d. Steripipette e. 8-channel (10-100 µl)	Terson Accupipet T10 (1-10µl) T100 (10-100 µl) T1000 (100-1000 µl) Steripette Pro with filters 8-channel multipipette	As mentioned
17	Electronic Analytical Balance	Brand: K.Roy Model: BW200E	<ul style="list-style-type: none"> • Piece Counting • Percentage (%) weighing • Check Weighing • Filling • Statistics



			<ul style="list-style-type: none">• Recipe Feature: <ul style="list-style-type: none">• Easy to read large backlit LCD display.• Standard RS 232C Interface Ps/2 output• Hanger for Below Balance weighing TECHNICAL DATA Technical data BW-200E Max capacity 220 g Readability 0.1 mg Tare range Full Repeatability 0.3mg Linearity 0.3mg Pan size 80mm Stabilization time 5sec Working temperature 30°C Power supply A/C Adapter 230V or 115V +/- 20% 50-60 Hz Calibration External Display LCD with backlight Net weight/Gross weight 5,6/8,3 kg
18	Dry Bath - small	Dry Bath (small) Rivotek	The body made of MS Powder coated. Temperature range ambient to 100 °C controlled to ± 1.0 °C by digital display with microprocessor based PID Controller display using PT 100 as sensor. Heating Block with 3 nos. interchangeable aluminium blocks of 75 x 50 x 50mm size for accommodating 0.5ml., 1.5ml Eppendorf & 12mm test tubes.
19	Shaking water bath	Shaking Water Bath (small)	Water Bath Shakers, Rivotek <ul style="list-style-type: none">• Body Material : MS Painted with powder coating.• Tray material : Stainless Steel. SS cover is provided.• Temp. Range (Ambient +5) to 95 °C• Digital Display with microprocessor based PID Controller of Accuracy ± 1°C. by using PT 100 as sensor• Shaking speed 20 - 200 / 10-100 stroke per min. (without load)



			<ul style="list-style-type: none">• Supplied with SS Gabled Cover.• Continuous operation limit, maximum upto 10-12 hours Reciprocating (Horizontal) Tank size 370 x 300 x 200 Tray size 250 x 250 x 110 Stroke Speed 10 -100
20	Digital pH Meter with Electrode	Brand: LABMAN Model: LMPH 12	<p>AUTOMATIC CALIBRATION: LMPH meter is capable of calibrating up to 5 points using USA or NIST Ph standard buffer. Press CAL key to enter calibration mode and immerse PH electrode into indicated calibration solution, press ENTER key and meter is automatically calibrated.</p> <p>AUTO-BUFFER RECOGNITION: During calibration, if the calibration solution does not match the meter's indicated value, an ERROR message is displayed.</p> <p>VIEW ELECTRODE SLOPE: After calibration, the percentage slope of the electrode is displayed before the meter returns to measurement mode. Per the slope value you decide whether to change the pH electrode.</p> <p>AUTOMATIC TEMPERATURE COMPENSATION: Using the supplied temperature probe, the temperature value is displayed on the screen</p> <p>FLUID RESISTANT HOUSING AND SWIVEL ELECTRODE HOLDER: The integrated plastic housing and keypad is sealed to protect against accidental spills and splashes the electrode holder arm is rapidly switched to both sides and swivels and articulates for convenient use and positioning.</p> <p>TECHNICAL SPECIFICATION</p> <ul style="list-style-type: none">• pH Range: -2.000 to 20.00• pH Resolution: ± 0.001, 0.01, 0.1 Selectable• pH Accuracy: ± 0.002 pH• mV Range: 0 to ± 1999 mV• mV Accuracy: ± 1 mV• Temperature Range: 0 to 100°C• Temperature Accuracy: ± 1°C• Calibration points: 5 Points• Calibration due reminder: 1 to 31 days• pH Buffer options: NIST (pH4.00 / 6.86 / 9.18) or USA (pH4.01 / 7.00 / 10.00), DIN & user buffer• Temperature Consumption: 0 to 100°C, Manual / Auto• Memory: 500 data, USB & GLP Standards



			<ul style="list-style-type: none"> • Power Supply : DC 9V, using AC adaptor 220VAC, 50Hz • Dimensions: 210 (L) X 205(W) X 65(H)mm • Weight: 1.75Kgs
21	Dissolved Oxygen Meter (Microprocessor)	Brand: LABMAN LMDO-50	<p>LMDO-50 use a polarographic electrode to measures dissolved oxygen in water, it can display the oxygen level as % saturation from 0 to 200% or concentration from 0 to 20ppm (mg/L).</p> <p>One or Two points calibration (100% in air, 0% in zero oxygen solution)</p> <p>Automatic temperature compensation for best accuracy under fluctuating temperatures</p> <p>Automatically compensates salinity and barometric pressure after manual input for increased accuracy</p> <p>Automatic message prompts help your easy to operate meter</p> <p>Expanded memory stores and recalls up to 99 data sets</p> <p>USB Communication interface can be sent data to computer</p> <p>Dissolved Oxygen Range 0.00 to 20.00mg/L</p> <p>Resolution 0.01 mg/L</p> <p>Dissolved Oxygen Accuracy + 0.3mg/L</p> <p>Saturation of Oxygen 0 to 200.0%</p> <p>Accuracy + 5.00%</p> <p>Temperature Range & Accuracy 0.0 to 50.0 °C & + 0.3°C</p> <p>Temperature Compensation 0 to 40°C, Automatic</p> <p>Salinity Correction 0 to 35g/L</p> <p>Barometric Pressure Correction 450 to 850 mm Hg, 60 to 112.5 kpa</p> <p>Calibration Points1 or 2 points (100% in air or 0% in zero oxygen solution)</p> <p>Memory99 data sets with date/time stamping</p> <p>Output USB Interface</p> <p>Power supply DC 9V, using AC adapters, 220VAC, 50Hz</p> <p>Dimensions LxWxH (mm) 210 X 188 X 60</p> <p>Weight 1.75 kg</p>
22	Portable pH Meter	portable pH meter EUTECH- PHTESTR20	<p>Waterproof pH Testr 20 Tester with ATC; ±0.01 pH accuracy</p> <p>Standard Features</p> <p>Measuring Parameter: pH</p> <p>Highlights: 0.01 Resolution</p> <p>pH/mV:</p> <p>Range: -1.00 to 15.00 pH</p> <p>Resolution: 0.01 pH</p> <p>Accuracy: ±0.01 pH</p> <p>Calibration point: 3 Auto</p> <p>Buffer sets: USA: 4.01/7.00/10.01; NIST: 4.01/6.86/9.18</p> <p>Meter function:</p> <p>ATC: Yes</p> <p>Sensor type: Double junction</p>



NETAJI SUBHAS OPEN UNIVERSITY
DD 26, Sector – I, Salt Lake, Kolkata – 700064
Website: wbnsou.ac.in, Tele-Fax: 03340663224, Ph: 03340663213

			Auto-off: 8.5 mins after last key pressed Operating temp: 0 to 50°C LCD display: custom dual-display 2.7 cm (H) x 2.1 cm (W) Power: 4 X 1.5 V “A76” alkaline batteries Dimension: Tester: 16.5 X 3.8 cm; 90 g Boxed: 22 X 6 X 5 cm ; 170 g
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Contact No. 98305 47592 (any Technical Queries)

Finance Officer
Netaji Subhas Open University
DD-26, Sector -1, Salt Lake, Kolkata-700064
Email: sachindrakar@yahoo.in
Mobile No: 9432747119



ANNEXURE – III

GENERAL TERMS & CONDITIONS AND INSTRUCTIONS

1. The quotation should include the cost of installation and configuration of all the components.
2. The Bidders should have legal compliance such as: (1) GST Number, (2) PAN / TAN & (3) Trade License (4) Professional Tax (5) Certificate of Authorization if applicable.
3. The bidders are to participate in the bidding process for the Tender only online at <https://www.wbtenders.gov.in> as per prescribed format (BOQ).
4. Price should be including GST (Please put Total amount of GST of each item in GST Col. of BOQ Sheet).
5. Price shall be quoted in INR only.
6. Incomplete and Conditional Bids will be summarily rejected without assigning any reasons thereof.
7. Tenders must be submitted in two Separate Bids- (1) Technical Bid and (2) Financial Bid. The Technical Bid, if found suitable to meet the specifications noted above, will be followed by Financial Bid.
8. Details of items like specification of item, brand name, model name & no., quantity, service centre etc. must be attached.
9. The place of supply & installation is Kalyani Regional Centre, School of Sciences, Netaji Subhas Open University, Ghosh Para Station Road, Kalyani, Nadia. West Bengal
10. The Bidders should quote all the items (Partial bidding will not be considered).
11. Quantity of items to be supplied may vary at the time of order.
12. The sum of all items would be taken into consideration to have LOWEST QUOTATION.
13. The judicature of any legal disputes will be under the Hon'ble High Court, Calcutta.
14. The Authority of NETAJI SUBHAS OPEN UNIVERSITY reserves the right to reject the entire bid received without assigning any reason thereof.



15. The applicant bidders to participate in the bidding process are to fill in the following Formats given in the page No. 22 & 23 and BOQ.

Finance Officer

Netaji Subhas Open University

DD-26, Sector -1, Salt Lake, Kolkata-700064

[Email: sachindrakar@yahoo.in](mailto:sachindrakar@yahoo.in)

Mobile No: 9432747119



To

The Finance Officer

Netaji Subhas Open University

DD 26, Sector – 1, Salt Lake

Kolkata – 700064

Ref: Memo No: AC/225/22-23 Dated: 20-10-2022

Sub: Submission of Bid – Technical & Financial with reference to the above.

Sir

,

As per guidelines given in the Tender Notice we are quoting the itemwise value and the total amount in the prescribed BOQ format in the Financial bid along with the Technical Credentials supported with relevant documents as applicable. We have read all the terms and conditions given in the Tender Notice and do hereby undertake to obey the rules and regulations of e-Tender.

With regards

Signature with Seal & Date:

Name of Signatory:

Name of Organization:

Mailing Address:

Mobile No of Contact Person:

Email Address of the Organization:



ANNEXURE - IV

Check List of General Terms and Conditions:

Name of the Bidder/Organisation :

Sl. No.	Particulars	Put Y if Yes/ Put N if No, respectively
1.	Copy of GST Registration Certificate attached	
2.	Copy of PAN & TAN attached	
3.	Copy of proof of Trade License attached	
4.	Copy of proof of Enlistment of Professional Tax attached	
5.	Copy of proof of Experience as per Annexure II	
6.	Copy of Certificate of Authorization, if applicable, attached	
7.	Details of items like specification of item, brand name, model name & no., service centre etc. must be attached.	

Signature with Seal & Date:

Enclosures:

1. Copy of GST Registration Certificate
2. Copy of PAN & TAN
3. Copy of AADHAAR as applicable
4. Copy of proof of Trade License
5. Copy of proof of Enlistment of Professional Tax
6. Certificate of Authorization as applicable
7. Details of items like specification of item, brand name, model name & no, service centre etc.

Signature Not Verified

Sachindra Chandra Kar, Finance Officer, Email: sachindrakar@yahoo.in, Mobile No. 9432747115

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Digitally signed by SACHINDRA CHANDRA KAR
Date: 2022.10.20 17:06:32 IST
Location: West Bengal-WB