



**MAULANA AZAD NATIONAL URDU UNIVERSITY**

(A Central University established by an Act of Parliament in 1998)

**PURCHASE & STORES SECTION**

**INVITATION FOR ONLINE TENDER (TWO BIDS SYSTEM)**

(Tender No: 05/Purchase/MANUU/F.175/2017-18-SoS, dt: 9<sup>th</sup> August 2019)

**Sub: MANUU - Purchase & Stores Sections – Supply and installation of major lab equipments for School of Sciences – Online (through CPPP) Tender Enquiry – Reg.**

The Maulana Azad National Urdu University (MANUU), Hyderabad (Central University established by an Act of Parliament in 1998) intends to procure major lab equipments for School of Science of University, Gachibowli, Hyderabad from the prospective bidders. The intended bidders may furnish their quotations (as per the specifications mentioned below) online through Central Public Procurement Portal (CPPP) @<https://eprocure.gov.in/eprocure>. The online bids along with **EMD for Rs. 46,600/-** drawn in favour of Finance Officer, MANUU, Hyderabad (Exemption as per GoI norms will only be considered on production of documentary proof, failing which the bid will be rejected) shall be furnished as per the proforma prescribed (Annexure-2). The bid documents (both Technical bid and financial bid) along with the scanned copy of EMD proof must be uploaded online on CPP Portal on or before **26<sup>th</sup> Aug 2019** by **3.00 pm**. However, the original EMD document/DD shall be submitted at Purchase Section next day of closing date of submission of bids)

**Terms and Conditions of the Tender:**

**1. Submission of Bids:**

- 1.1 The technical and financial bids should be furnished in Annexure-1 and Annexure-2 respectively and both the bids should be submitted online @ <https://eprocure.gov.in/eprocure> only along with the requisite documents.
- 1.2 Conditional and incomplete bids will be rejected summarily.
- 1.3 The bids must be submitted before due date and time.
- 1.4 **Modification and Withdrawal of Bids:** The bidder may modify or withdraw his bid through online before last date for submission of the Bids.
- 1.5 No tender will be accepted after the date of opening and time as specified in the tender enquiry for whatever reasons.
- 1.6 Bidders shall have to ascertain the exact percentage of GST applicable on each of the items while quoting the rates in the financial bid (ANNEXURE-2). In case of discrepancy / difference of opinion on GST rates, the University shall decide the lowest quotation on verification of the relevant provisions of GST Act vis-à-vis supporting documents provided by the bidders in respect of the claim for the GST. In case of ambiguity on percentage of GST applicable, the University will award the contract on the basic price i.e excluding GST quoted in the online price bid. The decision of the University shall be final and binding in this regard. The items procured are exclusively for the MANUU School of Sciences for education and research purpose only and not for commercial use
- 1.7 The University reserves its right to award the contract to the firm quoting lowest (L-1) rates.

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**2. Submission of EMD**

- 2.1 The firms should submit EMD of Rs. 46,600/- in the form of Demand Draft / Bank Guarantee / Fixed Deposit drawn in favour of Finance Officer, MANUU payable at Hyderabad in original by post or by hand. Scanned copy of EMD should be uploaded along with Technical bid document. Exemption as per govt. norms will be considered on production of documentary proof.
- 2.2 The EMD of the unsuccessful bidders will be returned within 60 days after closing date of the bid or within 30 days after finalizing the bid without interest. The EMD of the successful bidder will be returned on submission of Performance Security.

**3. Opening of Bids**

- 3.1 Technical bid would be opened online only and scrutinized as per the eligibility criteria prescribed.
- 3.2 Financial bids of only technically qualified bidders will be opened by the authorized officers of the University.
- 3.3 The bidder must provide the services as per the specifications mentioned in the tender. The firms may also quote for higher / superior specifications. However, the criteria for requirement would be based on the actual specifications mentioned in this tender document.
- 3.4 Prices are to be quoted both in figures and in words. In case of a discrepancy, quoted amount in words/lowest amount will be taken as valid. The quotation should be valid for a minimum period of 75 days from the closing date of tender.

**4. Pre-qualification (eligibility) criteria:**

- 4.1 The bidder should be a registered firm / supplier / authorized dealer with GSTIN.
- 4.2 The firm should submit an EMD of Rs. 46,600/-
- 4.3 The firm should submit the OEM Certificate / authorized dealer / authorized distributor / manufacture's authorization certificate specific to this tender.
- 4.4 The firm should submit bid showing item wise compliance as per Annexure – 4 with respect to specification and warranty etc., any deviation of quality will be summarily rejected.
- 4.5 The bidder must upload Annexure – 1 duly filled in.
- 4.6 A) The bidder must have achieved the minimum average annual turnover of **Rs. 18,64,000/-** on supply of the lab equipments during the last three financial years.  
B) In addition to the above, the bidder must have supplied the;
  - i. Lab Equipments on three Purchase Orders worth **Rs. 9,32,000/-** each (or)
  - ii. Lab Equipments on two Purchase Orders worth **Rs. 11,65,000/-** each (or)
  - iii. Lab Equipments on one Purchase Order worth **Rs.18,64,000/-**During the last 5 years period.

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**5. Job Requirement**

5.1 Supply and Installation of *Major Lab equipments for School of Sciences as per specification and quantity mentioned below.*

SI	Particulars	Quantity
1.	<p><b>SPECIFICATIONS FOR INVERTED FLUORESCENCE MICROSCOPE:</b></p> <p>a. The System should be Infinity-corrected (RMS) threaded objectives with a 45 mm parfocal distance supporting fluorescence, brightfield, color brightfield, and phase contrast imaging modes, 60 mm LWD condenser; 4-position turret with a clear aperture and 3 phase annuli.</p> <p>b. The instrument should have five-position chamber for 4 fluorescence illuminators, LED light source with &gt;50,000-hour life; broad choice of standard and specialty LED illuminators. (List of LED illuminators to be attached).</p> <p>c. Imaging methods by Single color, multicolor, time lapse, Z-stacking, movie capture, allowing to review, measure, and annotate captured images. and count cells in fluorescence mode post-acquisition.</p> <p>d. System should have mechanical X/Y stage; travel range 120 mm x 80 mm with sub micron resolution, drop in inserts to receive vessel and lockdown holders to fix sample in place. List of available vessel holders (Well Plates, Dishes, Flasks and Slides) to be provided.</p> <p>e. The system must have automated focus mechanism with sub micron (0.150 um) resolution (single step accuracy) and mechanical focus wheel with single knob for coarse and fine focus.</p> <p>f. System must include 5 position objective turret with front mounted control and Plan Flourite 10x, 20x, objectives to be supplied along with instrument.</p> <p>g. The system must include 02 (GFP - 470/525 nm and RFP - 531/593 nm) independent high output LED illuminators to be supplied along with instrument have independent intensity control.</p> <p>h. The system must include high-sensitivity monochrome CMOS - 3.2 MP or better (2,048 x 1,536) camera with 3.45 μm pixel resolution.</p> <p>i. The system with small foot print with Dimensions (L x W x H) - 18 x 23 x 18 inches preferable and should have compatibility with the onstage Incubator</p> <p>j. System should include LCD Display - 18.5" articulated LCD color monitor with 1920x1080 pixel resolution with Embedded PC with 4 GB RAM. With 10GB SSD and 16GB USB 3.0 memory stick.</p>	01
2.	<p><b>SPECIFICATION FOR FLUORIMETER:</b></p> <p>a. System should be compact fluorescence based quantification of DNA/RNA/ mircoRNA/ primers/NGS library and Protein and RNA Quality (RIN).</p> <p>b. System should have Large 5 -inch or better color touch screen for easy workflow navigation.</p> <p>c. System should have the sensitivity to measure picogram concentration of nucleic acids and utilize sample volume as low as 1ul.</p> <p>d. Stores up to 1,000 sample results on-board and more on given USB stick.</p> <p>e. Compatible plastic ware and standard needs to be provided for the calibration of the system.</p> <p>f. System should measure the intact RNA in less than 5 seconds per sample.</p> <p>g. System should have the below excitation and emission filters</p> <p>i. Excitation - Blue 430–495 nm, Red 600–645 nm</p> <p>i. Emission - Green 510–580 nm, Red 665–720 nm.</p> <p>h. Vendor should support with compatible high sensitivity fluorescent dyes for quantification of DNA, RNA, Protein and RNA quality of samples.</p> <p>i. System should have a On-board pre programs and reagent calculator.</p> <p>j. System should have option to connect with WiFi for data transfer.</p>	01
3.	<p><b>TECHNICAL SPECIFICATIONS FOR BIO-SAFETY UNIT:</b></p> <p>a. The Bio-safety cabinets should be 4 feet width with front window must be a 8" sash opening and SS 304 grade or coated steel interior.</p> <p>b. The Bio Safety Cabinet must include DC motors.</p> <p>c. The motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments.</p> <p>d. Cabinet must use a pressure sensor (rather than anemometer) to detect pressure drop across the supply filter, rather than in just one point across the down flow.</p> <p>e. The cabinet should display the inflow and down flow air velocities and must incorporate an LED Indicator, visual &amp; audible alarm to indicate excessive HEPA filters loading, blower failure, airflow speed failure, Incorrect window position.</p>	01

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	<p>f. The front of the cabinet must be angled 10° to help minimize glare.</p> <p>g. The cabinet noise level must be less than 65 dB(A) for a 4-foot cabinet.</p> <p>h. Cabinet with lights on and fan at operating speed should consume less than 400 watts or less</p> <p>i. The cabinet must automatically reduce fan/blower motor speed to 30% when the front window sash is in closed position to ensure reduced energy consumption when the cabinet is not in use.</p> <p>j. UV light must be programmable to allow for specific exposure times from 0 to 24 hours.</p> <p>k. The Cabinet should have provision to fit taps for Vacuum, Water and Noncombustible gas.</p> <p>l. The Bio safety Cabinet should be NSF certified with listing on NSF website.</p> <p>m. The Bio safety cabinet should incorporate HEPA filter of the class H 14 EN 1822 or better and having minimum efficiency of 99.995% at 0.3 μm particle size.</p> <p>n. Ventilation System Exhaust and Inflow air volume approx 300-350 CFM</p> <p>o. Audible and visual Alarms for HEPA filter failure, blower failure, airflow speed failure, Incorrect window position.</p> <p>p. The cabinet should be provided with fixed / adjustable Height Stand, UV Light and one set of detachable arms rest and one / two electrical outlet.</p> <p>q. The Drain Pan of the BSC should be made of Stainless Steel. The drain pan should not be painted, or powder coated.</p> <p>r. Port provision for clean and safe routing for vacuum tubing and cables through the side of the BSC for improved organization and work efficiency.</p> <p>s. Cabinet should be CE certified and declaration of MOC should be provided.</p>	
4.	<p><b>SPECIFICATIONS FOR MICRO NON REFRIGERATED CENTRIFUGE:</b></p> <p>a. Maximum Rotational Speed: 15000 rpm</p> <p>b. Acceleration time to max.rpm - 15s</p> <p>c. Braking time from max rpm - 16s</p> <p>d. Noise level - &lt;60dB</p> <p>e. Power supply: 230V/50-60Hz</p> <p>f. Power requirement: 220 W</p> <p>g. Soft ramp - adjustable</p> <p><b>Features:</b></p> <p>h. Aerosol tight rotor supplied as standard</p> <p>i. Standard rotor 24 x 1.5/2.0ml, aerosol-tight lid</p> <p>j. Knob version for faster setting of parameters</p> <p>k. Automatic lid opening following application</p> <p><b>Sequence:</b></p> <p>l. Low access height</p> <p>m. Optibowl design to run the centrifuge without rotor</p> <p>n. 230V/50-60Hz</p>	01
5.	<p><b>ROTATING SHAKER:</b> Bench Top, Digitally controlled, Stepless frequency speed control, Speed range in RPM- 80 to 180; Universal platform with adjustable rollers and surface to accommodate inter-changable clamps of assorted sizes/capacities for holding conical flasks; Shaking amplitude -10 mm; Flask sizes -50 ml; LCD display; Speed with preset facility; Timer range in minutes-99; Maximum volume – 2 liters; Motor protection in case of over load; Power supply- 230 v plus minus 10% 50 hz; 5 clamps for each of 50 ml, 100ml, 250 ml, 500 ml and 1000 ml; with Warranty; ISO certification required.</p>	01
6.	<p><b>LIQUID NITROGEN CONTAINER/CANISTER (VFC):</b></p> <p>a. Capacity- 6-8 cubic meter capacity</p> <p>b. Cylinder capacity- 1-3 liters</p>	03
7.	<p><b>HORIZONTAL GEL ELECTROPHORESIS UNIT WITH POWER SUPPLY:</b> Electrophoresis Cell size- 20x 26 x 7.5 cm; Gel trays size- 15 x 7; 7 x 10 cm; Ready agarose gels accommodation; Wide-mini and 96 plus format; 8-12, 2 x 8 well; Sample throughput – 10-60; Base buffer volume- 650 ml; Power: Maximum Power (Watt) - 120 watts; DC Current Output Rating (Ampere)-0 to 4; DC Voltage Output Rating (Volt) 0 to 30 ; load Regulation (Voltage) ± (% of output + offset)-less than 0.01 +2 (milli volt); Load Regulation (Current) ± (% of output + offset) -less than 0.05 + 1.5 mA; Line Regulation (Voltage) ± (% of output + offset) -less than 0.01 + 1 mV; Line Regulation (Current) ± (% of output + offset) -less than 0.05 + 0.1 mA; Over Voltage Protection Accuracy + - 0.5 + 0.5 V; Over Voltage Protection Response Time (milli sec) -less than 10 milli second; Ripple and Noise Voltage (20 Hz to 20 MHz) less than 1 mVrms less than 4 mVpp; Ripple and Noise Current (20 Hz to 20 MHz) -less than 4 milli amps rms; Readback Voltage Accuracy 0.05 + 10 mV; Readback Current Accuracy -0.15 + 5 mA; Read back Voltage Resolution (mV) -1; Readback Current Resolution (mA) 0.1</p>	01



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**6. Delivery & Payment:**

6.1 The supply and installation of the said items should to be made within a period of **30days** from the date of award of contract (AOC).

i) Failure to supply the material within the stipulated period shall entitle the Procuring Entity (MANUU) for imposition of penalty @ 1/2% (half percent) per day on the quantity undelivered covered in the award of contract, subject to a maximum of 5% (five percent) after expiry of the stipulated time period of the supply unless extension is obtained in writing from the office on valid ground before expiry of delivery period.

ii) If the deliveries are not made by the specific date and Procuring Entity is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained thereby would be recovered from the defaulting supplier.

6.2 The selected firms should submit 10% of value of Award of Contract (AOC) as Performance Security in the form of D.D/ Fixed Deposit Receipt / Bank Guarantee in favour of MANUU payable at Hyderabad which would be released (without interest) after supply of material as per specifications and after fulfilling of all tender obligations. In case, the goods supplied are under warranty, the 10% Performance Security will be released after 60 days of completion of warranty period without any interest. The account details are as follows;

A/c. Name : Maulana Azad National Urdu University  
A/c. Number : 187901000000001  
Bank : Indian Overseas Bank  
Branch : Gachibowli, Hyderabad-500 032  
IFSC Code : IOBA0001879

6.3 **Payment:** 100% payment after receipt of the goods, inspection, installation (if any) at concerned office site in good condition and acceptance by the consignee, within 30 (thirty) days provided the successful bidder should have been furnished the 10% Performance Guarantee.

6.4 No advance payment will be made.

**7. Miscellaneous**

7.1 **MANU University GSTIN:** 36HYDM03116B1DT.

7.2 The items procured are exclusively for the MANUU School of Sciences for education and research purpose only and not for commercial use.

*Handwritten signature*



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8. Termination of the contract:

- 8.1 If the information provided by the firm during the process of contract is found false at later stage, the University reserves the right to cancel the Purchase Order and / or blacklist the firm.
- 8.2 Sub-letting of this contract is not permissible.
- 8.3 This Request for Proposal (RFP) is issued with no financial commitment and the Buyer (MANUU) reserves the right to change or vary any part thereof or foreclose the procurement process at any stage. The Buyer also reserves the right to disqualify any vendor, should it be necessary, at any stage.
- 8.4 In case of any dispute, Hyderabad will be the Jurisdiction. The Registrar, Maulana Azad National Urdu University, Hyderabad shall decide the issue and his decision will be final and shall be binding on the both parties.

Registrar

Maulana Azad National Urdu University  
Gachibowli, Hyderabad- 500032

Instructions for filling up BOQ (Online Only)

Name of the Bidder/ Bidding Firm / Company :		PRICE SCHEDULE (DOMESTIC TENDERS – RATES ARE TO GIVEN IN RUPEES (INR) ONLY) (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST Amount on Item Qty x Basic Rate in INR Rs. P	TOTAL AMOUNT Without Taxes col (13) = (4) x (7) in Rs. P	TOTAL AMOUNT With Taxes col (14) = sum (8) to (13) in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	7	9	13	14	15

Name of the firm

Unit Price (in Rupees) without GST

Total GST amount (in Rupees) i.e. Qty. x unit price x GST%

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Annexure-1 (Technical Bid)

1.	Name of the Firm	M/s.
	Postal Address	
	Contact No (s)	
	E-mail ID	
	Account Number	
	Name of the Account Holder / Firm / Agency	
	Bank Name	
	Branch Name & Details	
	IFSC Code	
2.	Details of EMD of Rs. 46,600/- (Exemption for registering with MSME NSIC etc as per GoI norms will only be considered on production of documentary proof, failing which the bid will be rejected) The EMD shall be submitted at Purchase & Stores Section before closing date.	D.D. No. _____ dated: _____ Bank _____ (upload documentary proof if exemption is claimed)
3.	Firm Registration Details	( Yes / No ) (upload Firm registration certificate)
4.	GST Registration Details	( Yes / No ) (upload GST registration certificate)
5.	OEM Certificate / authorized dealer / authorized distributor / manufacture's authorization certificate specific to this tender	( Yes / No ) (upload Documentary proof)
6.	Compliance report of each items	( Yes / No ) (upload compliance report of each item)
7.	Average Annual Turnover of Rs. 1864000/- during the preceding three years (Attach scanned copy of audited balance sheet and Profit & Loss Account for these years, Certificate Certified by CA) [as per tender clause 4.6 (A)]	( Yes / No ) (upload Documentary proof)
8.	Value of Purchase Orders of lab equipments items carried out during the preceding five years, (Attach scanned copy of Purchase Orders) [as per tender clause 4.6 (B)]	( Yes / No ) (upload Documentary proof)
9.	Annexure –1 duly filled in	( Yes / No ) (upload document)

**Declaration:** i) That we have not been debarred by any Government Department/Under taking.

ii) It is hereby declared that the firm have carefully read and understood the tender document and **agreed with all the terms and conditions** of the tender, Hyderabad jurisdiction etc., and agreed that the decision of the University shall be final in all respect.

Place : .....  
Date : .....2019

Signature of the authorized  
Dealer/signatory of the firm

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Annexure-2 (Financial Bid)

(To be filled Online as per the CPPP format only)

Name of the Bidder/ Bidding Firm / Company :								
PRICE SCHEDULE (DOMESTIC TENDERS – RATES ARE TO GIVEN IN RUPEES (INR) ONLY) (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )								
NUM BER #	TEXT #	NUMB ER #	TEXT #	NUMBER #	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST Amount on Item Qty x Basic Rate in INR Rs. P	TOTAL AMOUNT Without Taxes col (13) = (4) x (7) in Rs. P	TOTAL AMOUNT With Taxes col (14) = sum (8) to (13) in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	7	9	13	14	15
1	<b>Procurement of Major lab equipments</b>							
1.1	SPECIFICATIONS FOR INVERTED FLUORESCENCE MICROSCOPE (Specification as per tender document)	01	Nos			0.00	0.00	INR Zero Only
1.2	SPECIFICATION FOR FLUORIMETER (Specification as per tender document)	01	Nos			0.00	0.00	INR Zero Only
1.3	TECHNICAL SPECIFICATIONS FOR BIO-SAFETY UNIT (Specification as per tender document)	01	Nos			0.00	0.00	INR Zero Only
1.4	SPECIFICATIONS FOR MICRO NON REFRIGERATED CENTRIFUGE (Specification as per tender document)	01	Nos			0.00	0.00	INR Zero Only
1.5	ROTATING SHAKER (Specification as per tender document)	01	Nos			0.00	0.00	INR Zero Only
1.6	LIQUID NITROGEN CONTAINER/CANISTER (VFC) (Specification as per tender document)	03	Nos			0.00	0.00	INR Zero Only
1.7	HORIZONTAL GEL ELECTROPHORESIS UNIT WITH POWER SUPPLY (Specification as per tender document)	01	nos			0.00	0.00	INR Zero Only
Total in Figures						0.00	0.00	INR Zero Only
Quoted Rate in Words								

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Annexure-3 (Bank Guarantee)

EARNEST MONEY DEPOSIT (EMD) SUBMISSION FORM

(THROUGH BANK GUARANTEE)

(To be executed on non-judicial stamped paper of an appropriate value)

Date : .....

Bank Guarantee No : .....

Amount of Guarantee : .....

Guarantee Period : From ..... to .....

Guarantee Expiry Date : .....

Last date of Lodgement : .....

WHEREAS Maulana Azad National Urdu University, Gachibowli, Hyderabad 500032 (hereinafter referred to as "The Owner" which expression shall unless repugnant to the context includes their legal representatives, successors and assigns) has executed a binding to the contract on [insert date of acceptance of the letter of acceptance (LOA)] with [insert name of the Successful Bidder] .....(hereinafter referred to as the "Contractor" which expression shall unless repugnant to the context include its legal representatives, successors and permitted assigns) for the EMD for supply and installation of major lab equipments for School of Sciences shall have the meaning ascribed to it in the Contract] based on the terms & conditions set out in the Tender Documents number [insert reference number of the Tender Documents] dated [insert date of issue of Tender Documents].....and various other documents forming part thereof.

AND WHEREAS one of the conditions of the Contract is that the Contractor shall furnish to the Owner a Bank Guarantee from a commercial bank in India having a branch at Hyderabad for a sum of R...../- (the amount guaranteed under this bank guarantee shall hereinafter be referred to as the "Guaranteed Amount") against due and faithful performance of the Contract including the performance bank guarantee obligation and other obligations of the Contractor for the supplies made and the services being provided and executed by under the Contract. This bank guarantee shall be valid from the date hereof up to the expiry of the Contract Period including any extension thereof.

AND WHEREAS the Contractor has approached [insert the name of the commercial bank] (here in after referred to as the "Bank") having its registered office at [insert the address].....and at the request of the Contractor and in consideration of the promises made by the Contractor, the Bank has agreed to give such guarantee as hereunder:

- (i) The Bank hereby undertakes to pay under this guarantee, the Guaranteed Amount claimed by the Owner without any further proof or conditions and without demur, reservation, contest, recourse or protest and without any enquiry or notification to the Contractor merely on a demand raised by the Owner stating that the amount claimed is due to the Owner under the Contract. Any such demand made on the Bank by the Owner shall be conclusive as regards the amount due and payable by the Bank under this bank guarantee and the Bank shall pay without any deductions or set offs or counterclaims whatsoever, the total sum claimed by the Owner in such Demand. The Owner shall have the right to make an unlimited number of Demands under this bank guarantee provided that the aggregate of all sums paid to the Owner

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- by the Bank under this bank guarantee shall not exceed the Guaranteed Amount. In each case of demand, resulting to change of PBG values, the Owner shall surrender the current PGB to the bank for amendment in price.
- (ii) However, the Bank's liability under this bank guarantee shall be restricted to an amount not exceeding Rs...../-[Rupees..... only].
- (iii) The Owner will have the full liberty without reference to the Bank and without affecting the bank guarantee to postpone for any time or from time to time the exercise of any powers and rights conferred on the Owner under the Contract and to enforce or to forbear endorsing any powers or rights or by reasons of time being given to the contractor which under law relating the Surety would but for the provisions have the effect of releasing the surety.
- (iv) The rights of the Owner to recover the Guaranteed Amount from the Bank in the manner aforesaid will not be affected or suspended by reasons of the fact that any dispute or disputes have been raised by the Contractor and / or that any dispute(s) are pending before any office, tribunal or court in respect of such Guaranteed Amount and/ or the Contract.
- (v) The guarantee herein contained shall not be affected by the liquidation or winding up, dissolution, change of constitution or insolvency of the Contractor but shall in all respects and for all purposes be binding and operative until payment of all money due to the Owner in respect of such liability or liabilities is effected.
- (vi) This bank guarantee shall be governed by and construed in accordance with the laws of the Republic of India and the parties to this bank guarantee hereby submit to the jurisdiction of the Courts of Hyderabad for the purposes of settling any disputes or differences which may arise out of or in connection with this bank guarantee and for the purposes of enforcement under this bank guarantee.
- (vii) All capitalized words used but not defined herein shall have the meanings assigned to them under the Contract.
- (viii) NOTWITHSTANDING anything stated above, the liability of the Bank under this bank guarantee is restricted to the Guaranteed Amount and this bank guarantee shall expire on the expiry of the Warranty Period under the Contract.
- (ix) Unless a Demand under this bank guarantee is filed against the Bank within six (6) months from the date of expiry of this bank guarantee all the rights of the Owner under this bank guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities hereunder.
- (x) However, in the opinion of the Owner, if the Contractor's obligations against which this bank guarantee is given are not completed or fully performed by the Contractor within the period prescribed under the Contract, on request of the Contractor, the Bank hereby agrees to further extend the bank guarantee, till the Contractor fulfills its obligations under the Contract.
- (xi) We have the power to issue this bank guarantee in your favour under Memorandum and Article of Association and the Undersigned has full power to do so under the Power of Attorney dated [date of power of attorney to be inserted] granted to him by the Bank.

Date:

Bank  
(Corporate Seal of the Bank)  
Signature of the person duly authorized  
to sign on behalf of the Bank

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PURCHASE & STORES SECTION

Annexure-4 (Compliance Report)

Sl	Particulars	Quantity	Warranty	Compliance	Deviation(if any)
1.	<p><b>SPECIFICATIONS FOR INVERTED FLUORESCENCE MICROSCOPE:</b></p> <p>k. The System should be Infinity-corrected (RMS) threaded objectives with a 45 mm parfocal distance supporting fluorescence, brightfield, color brightfield, and phase contrast imaging modes, 60 mm LWD condenser; 4-position turret with a clear aperture and 3 phase annuli.</p> <p>l. The instrument should have five-position chamber for 4 fluorescence illuminators, LED light source with &gt;50,000-hour life; broad choice of standard and specialty LED illuminators. (List of LED illuminators to be attached).</p> <p>m. Imaging methods by Single color, multicolor, time lapse, Z-stacking, movie capture, allowing to review, measure, and annotate captured images. and count cells in fluorescence mode post-acquisition.</p> <p>n. System should have mechanical X/Y stage; travel range 120 mm x 80 mm with sub micron resolution, drop in inserts to receive vessel and lockdown holders to fix sample in place. List of available vessel holders (Well Plates, Dishes, Flasks and Slides) to be provided.</p> <p>o. The system must have automated focus mechanism with sub micron (0.150 um) resolution (single step accuracy)and mechanical focus wheel with single knob for coarse and fine focus.</p> <p>p. System must include 5 position objective turret with front mounted control and Plan Flourite 10x, 20x, objectives to be supplied along with instrument.</p> <p>q. The system must include 02 (GFP - 470/525 nm and RFP - 531/593 nm) independent high output LED illuminators to be supplied along with instrument have independent intensity control.</p> <p>r. The system must include high-sensitivity monochrome CMOS - 3.2 MP or better (2,048 x 1,536) camera with 3.45 μm pixel resolution.</p> <p>s. The system with small foot print with Dimensions (L x W x H) - 18 x 23 x 18 inches preferable and should have compatibility with the onstage Incubator</p> <p>t. System should include LCD Display - 18.5" articulated LCD color monitor with 1920x1080 pixel resolution with Embedded PC with 4 GB RAM. With 10GB SSD and 16GB USB 3.0 memory stick.</p>	01		Yes / No	
2.	<p><b>SPECIFICATION FOR FLUORIMETER:</b></p> <p>k. System should be compact fluorescence based quantification of DNA/RNA/ mircoRNA/ primers/NGS library and Protein and RNA Quality (RIN).</p> <p>l. System should have Large 5 -inch or better color touch screen for easy workflow navigation.</p> <p>m. System should have the sensitivity to measure picogram concentration of nucleic acids and utilize sample volume as low as 1ul.</p> <p>n. Stores up to 1,000 sample results on-board and more on given USB stick.</p> <p>o. Compatible plastic ware and standard needs to be provided for the calibration of the system.</p> <p>p. System should measure the intact RNA in less than 5 seconds per sample.</p> <p>q. System should have the below excitation and</p>	01		Yes / No	

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	<p>emission filters</p> <ul style="list-style-type: none"> <li>i. Excitation - Blue 430–495 nm, Red 600–645 nm</li> <li>ii. Emission - Green 510–580 nm, Red 665–720 nm.</li> </ul> <p>r. Vendor should support with compatible high sensitivity fluorescent dyes for quantification of DNA, RNA, Protein and RNA quality of samples.</p> <p>s. System should have a On-board pre programs and reagent calculator.</p> <p>t. System should have option to connect with WiFi for data transfer.</p>				
<p>3.</p>	<p><b>TECHNICAL SPECIFICATIONS FOR BIO-SAFETY UNIT:</b></p> <ul style="list-style-type: none"> <li>t. The Bio-safety cabinets should be 4 feet width with front window must be a 8" sash opening and SS 304 grade or coated steel interior.</li> <li>u. The Bio Safety Cabinet must include DC motors.</li> <li>v. The motor must automatically adjust the airflow speed without the use of a damper to ensure continuous safe working conditions, even without maintenance adjustments.</li> <li>w. Cabinet must use a pressure sensor (rather than anemometer) to detect pressure drop across the supply filter, rather than in just one point across the down flow.</li> <li>x. The cabinet should display the inflow and down flow air velocities and must incorporate an LED Indicator, visual &amp; audible alarm to indicate excessive HEPA filters loading, blower failure, airflow speed failure, Incorrect window position.</li> <li>y. The front of the cabinet must be angled 10° to help minimize glare.</li> <li>z. The cabinet noise level must be less than 65 dB(A) for a 4-foot cabinet.</li> <li>aa. Cabinet with lights on and fan at operating speed should consume less than 400 watts or less</li> <li>bb. The cabinet must automatically reduce fan/blower motor speed to 30% when the front window sash is in closed position to ensure reduced energy consumption when the cabinet is not is use.</li> <li>cc. UV light must be programmable to allow for specific exposure times from 0 to 24 hours.</li> <li>dd. The Cabinet should have provision to fit taps for Vacuum, Water and Noncombustible gas.</li> <li>ee. The Bio safety Cabinet should be NSF certified with listing on NSF website.</li> <li>ff. The Bio safety cabinet should incorporate HEPA filter of the class H 14 EN 1822 or better and having minimum efficiency of 99.995% at 0.3 µm particle size.</li> <li>gg. Ventilation System Exhaust and Inflow air volume approx 300-350 CFM</li> <li>hh. Audible and visual Alarms for HEPA filter failure, blower failure, airflow speed failure, Incorrect window position.</li> <li>ii. The cabinet should be provided with fixed / adjustable Height Stand, UV Light and one set of detachable arms rest and one / two electrical outlet.</li> <li>jj. The Drain Pan of the BSC should be made of Stainless Steel. The drain pan should not be painted, or power coated.</li> <li>kk. Port provision for clean and safe routing for vacuum tubing and cables through the side of the BSC for improved organization and work efficiency.</li> <li>ll. Cabinet should be CE certified and declaration of MOC should be provided.</li> </ul>	<p>01</p>		<p>Yes / No</p>	

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4.	<p><b>SPECIFICATIONS FOR MICRO NON REFRIGERATED CENTRIFUGE:</b></p> <p>o. Maximum Rotational Speed: 15000 rpm                  p. Acceleration time to max.rpm - 15s                  q. Braking time from max rpm - 16s                  r. Noise level - &lt;60dB                  s. Power supply: 230V/50-60Hz                  t. Power requirement: 220 W                  u. Soft ramp - adjustable</p> <p><b>Features:</b></p> <p>v. Aerosol tight rotor supplied as standard                  w. Standard rotor 24 x 1.5/2.0ml, aerosol-tight lid                  x. Knob version for faster setting of parameters                  y. Automatic lid opening following application</p> <p><b>Sequence:</b></p> <p>z. Low access height                  aa. Optibowl design to run the centrifuge without rotor                  bb. 230V/50-60Hz</p>	01		Yes / No	
5.	<p><b>ROTATING SHAKER:</b> Bench Top, Digitally controlled, Stepless frequency speed control, Speed range in RPM- 80 to 180; Universal platform with adjustable rollers and surface to accomodate inter-changable clamps of assorted sizes/capacities for holding conical flasks; Shaking amplitude -10 mm; Flask sizes -50 ml; LCD display; Speed with preset facility; Timer range in minutes-99; Maximum volume – 2 liters; Motor protection in case of over load; Power supply- 230 v plus minus 10% 50 hz; 5 clamps for each of 50 ml, 100ml, 250 ml, 500 ml and 1000 ml; with Warranty; ISO certification required.</p>	01		Yes / No	
6.	<p><b>LIQUID NITROGEN CONTAINER/CANISTER (VFC):</b></p> <p>c. Capacity- 6-8 cubic meter capacity                  d. Cylinder capacity- 1-3 liters</p>	03		Yes / No	
7.	<p><b>HORIZONTAL GEL ELECTROPHORESIS UNIT WITH POWER SUPPLY:</b> Electrophoresis Cell size- 20x 26 x 7.5 cm; Gel trays size- 15 x 7; 7 x 10 cm; Ready agarose gels accommodation; Wide-mini and 96 plus format; 8-12, 2 x 8 well; Sample throughput – 10-60; Base buffer volume- 650 ml; Power: Maximum Power (Watt) - 120 watts; DC Current Output Rating (Ampere)-0 to 4; DC Voltage Output Rating (Volt) 0 to 30 ; load Regulation (Voltage) ± (% of output + offset)-less than 0.01 +2 (milli volt); Load Regulation (Current) ± (% of output + offset) - less than 0.05 + 1.5 mA; Line Regulation (Voltage) ± (% of output + offset) -less than 0.01 + 1 mV; Line Regulation (Current) ± (% of output + offset) -less than 0.05 + 0.1 mA; Over Voltage Protection Accuracy +- 0.5 + 0.5 V; Over Voltage Protection Response Time (milli sec) -less than 10 milli second; Ripple and Noise Voltage (20 Hz to 20 MHz) less than 1 mVrms less than 4 mVpp; Ripple and Noise Current (20 Hz to 20 MHz) -less than 4 milli amps rms; Readback Voltage Accuracy 0.05 + 10 mV; Readback Current Accuracy -0.15 + 5 mA; Read back Voltage Resolution (mV) -1; Readback Current Resolution (mA) 0.1</p>	01		Yes / No	

Place : .....  
 Date : .....2019

Signature of the authorized  
 Dealer/signatory of the firm

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