



# University of Kota, Kota

## कोटा विश्वविद्यालय, कोटा

MBS Marg, Kabir Circle, Kota

1.	NIT Dispatch No & Date	NIB No. 29 /2025-26 Date: 17/01/2026 <b>Supply and Installation of Gel Documentation and other equipment in Biotechnology under RUSA 2.0 scheme</b>
2.	Address of Procurement Entity	Registrar, University of Kota, Kota Contact No. 0744-2472934 Email id –registrar@uok.ac.in

### TECHNICAL BID

#### PART- A

S. N.	Description	Detail	Whether Enclosed (Write Yes/No)	Page No.
1.	Name and address of the bidder submitting the tender (Photo ID Proof shall be attached)			
2.	Email ID and contact details (phone/ mobile/fax) of the bidder			
3.	<b>Bank Details of the Bidder:</b> Banker's Name in the Branch Account Number Account Type Bank Name and Address IFS Code			
4.	<b>In case of SSI / MSME:</b> Registration No. of the SSI / MSME (Attach a separate sheet, if space is insufficient) (Enclose the Registration Certificate)			
5.	PAN Card No. (Copy shall be enclosed)			
6.	GST registration no. (Copy shall be enclosed)			
7.	The tender fee amounting to Rs.1000/- to be deposited vide Demand Draft in favour of Registrar, University of Kota	D. D. Number..... Bank ..... Dated.....		
8.	Bid Security (2% of Bid value i.e. 40,000 INR) to be deposited vide Demand Draft in favour of Registrar, University of Kota	D. D. Number..... Bank ..... Dated.....		
9.	The RISL Processing Fee amounting to Rs.500/- to be deposited vide Demand Draft in favor of Managing Director RISL, Jaipur	D. D. Number..... Bank ..... Dated.....		
10.	Whether original equipment manufacturer/Authorized distributor/Dealers/Suppliers (The copy of Authorization letter issued by manufacturer with supporting documents must be uploaded)			
11.	The experience details of the supply of related instruments/equipment to the Government departments/public university/Gov. autonomous bodies/PSUs in the last ten financial years. (The copy of relevant purchase order issued by the competent authority to be uploaded)			
12.	An average annual turnover of any last three financial years (Between Financial Years 2021-22 to 2024-25) of the bidder shall be equal to or more than Rs 20 lakh. The bidder will have to enclose the documentary proof i.e. CA certificate along with Audited annual accounts (balance sheets and profit & loss statements).			
13.	Compliance of Code of Integrity and No Conflict of Interest (As per Annexure-A)			
14.	Declaration by the Bidder regarding Qualifications (As per Annexure-B)			
15.	Grievance Redressal during Procurement Process (As per Annexure-C)			
16.	Additional Conditions of Contract (As per Annexure-D)			

## **PART-B**

S. No.	Description	Response Yes/No	Whether Enclosed Detailed brochure of the instrument (Yes/No)	Total Pages attach ed
1.	Whether your quoted instrument completely meets the required technical specifications of the instruments? If so, kindly include the comprehensive brochure that covers all technical specifications of each instrument components.			

- ❖ Form A, B, C & D as prescribed in Rajasthan Transparency in Public Procurement Rules, 2013 duly signed shall be enclosed.
- ❖ Bidder must have experience of the supply of tendered articles to Government Departments/public University/Govt Autonomous body/PSUs, for any two different financial years to any procuring entity.
- ❖ Copy of the required experience must be enclosed with the bid, in which issuing authority address must be clearly mentioned.
- ❖ The conditions mentioned at Sr. No. 05 to 16/and part B as well are essential and the bidder will have to enclose the documents in its support otherwise the bid is liable to be rejected.

Date: .....

Place:.....

**Signature of the bidder with Seal**



# University of Kota, Kota

## कोटा विश्वविद्यालय, कोटा

MBS Marg, Kabir Circle, Kota

Ph No.-0744-2472912/2472934 e-mail ID:-fo.uok2003@gmail.com

### Special conditions for Supply and Installation of Gel Documentation and other equipment in Biotechnology under RUSA 2.0 Scheme

1. The bidder must have the experience of the supply of Biotechnology stream related instruments/equipment to the Government departments/public University/Gov. autonomous bodies/PSUs in the last ten financial years. The bidder will have to enclose at least two supply/work orders of the equipment/instruments of Biotechnology stream of Two different financial years in its support..
2. An average annual turnover of any three financial years (Between Financial Years 2021-22 to 2024-25) of the bidder shall be equal to or more than Rs. 20 lakh. The bidder will have to enclose the documentary proof i.e. CA certificate along with Audited annual accounts (balance sheets and profit & loss statements).
3. The bidder must be a well-established manufacturing company/firm/authorized distributor/ Dealer/Supplier/ Seller.
4. The bid having lower technical specified dimensions than the technical specifications prescribed by the University in the bidding document will be rejected. However, higher technical specifications may be accepted by the procuring entity or departmental technical committee or other committee / persons authorized by the procuring entity.
5. Quantity mentioned in front of each instrument may be increased or decreased by the Departmental Technical Committee as per the availability of the grant / budget for the award of contract or issue of letter of intent or issue of purchase order by the procuring entity as per RTPP Act & Rules.
6. The delivery and installation of the items/instruments/equipment in the laboratory of the Biotechnology department of the University must be completed within a period of **30 days** from the date of issue of supply order.
7. In case of any contradiction, special conditions will prevail over the general terms and conditions.

**Signature of the bidder with Seal**

Date:.....

Place:.....



# University of Kota, Kota

MBS Marg, Near Kabir Circle, Kota (Rajasthan)-324005

## Technical Specifications of Supply and Installation of Gel Documentation and other equipment in Biotechnology

S. N.	Instruments/ Products	Specification	Qty.
1.	Gel Documentation with computer & Electrophoresis system power supply	<p><b>To visualize, capture and analyze images of gels containing separated DNA, RNA or protein samples after gel electrophoresis.</b></p> <p><b>Technical Specifications for</b> Gel documentation system for imaging DNA, RNA, colony dish and colorimetric blots with scientific grade <b>CX4 camera</b> is must with 2 megapixels resolution extendable up to <b>7.6 megapixels</b></p> <ul style="list-style-type: none"><li>• System should have motorized zoom lens with feedback</li><li>• System should have dark room technology and white light led panels with automatic intensity adjustment</li><li>• System should have transilluminator of 20 x 20 cm to produce publication quality gel image</li><li>• System should be capable of producing <b>16-bit – 65,536 grey levels</b></li><li>• System should have <b>USB 3.0 interface</b> for faster image transfer</li><li>• System should have fixed position filter wheel with F-590 emission filter for ethidium bromide, Gel Red, Gel Green, Lumitein, SYPRO Ruby, etc.</li><li>• System should have future upgrade option for colorimetric gel imaging</li><li>• System should have future upgrade option for blue light conversion plate for blue light DNA/RNA/ Protein fluorescence</li><li>• System should have Image capturing with <b>auto-lighting, auto-focus and auto-exposure</b></li><li>• System should have software for image enhancement; image analysis including molecular weight calculation, band quantification and distance calculation</li><li>• System should have <b>multi-user licensed free software</b></li><li>• System should have software with <b>3D dynamic scan and Apps studio, Live demo</b></li><li>• System should include <b>PC to operate and analyze data</b></li><li>• Desktop computer (Branded) should supply with Gel Doc System, Intel Core i3 with Intel chipset with 8 Gb&amp; 256 Gb with 1600x900/ 16 million color mode (24-bit). Video card with a refresh rate above 60Hz, Microsoft Windows 10 (64-bit only), At least two USB-A 3.2 ports available in the computer rear side, Please make sure to enable the “XHCI” BIOS option to fully activate the, USB-3 ports capabilities.</li><li>• Horizontal Electrophoresis system should supply with system 10 x 15 cm with combs and power supply.</li><li>• Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</li></ul>	01
2	CO2 incubator	<p><b>To culture cells and tissue by providing a controlled environment with optimal temperature, humidity and Co<sub>2</sub> levels.</b></p> <p>Steam jacket with internal capacity: 60 L (Approx) Minimum of 4 adjustable shelves with separate air tight doors should be available. Interior chamber: Stainless steel for easy cleaning and decontamination Stable temperature control, excellent uniformity, and rapid recovery with no overshoot. Fan less convection circulation to provide chamber homogeneity, eliminate vibration &amp; reduce sample evaporation. HEPA Filters (99.98% efficient) at the inlet to minimize contamination. Timer: 1 min. to 100 hours; Temperature range: +5° C to 80°C; Temp Accuracy +/-0.50 C of required temp, with inbuilt Temperature Sensor. Audiovisual Alarm to Indicate when temperature deviates more than 0.5°C from set point, and when program or time has finished. Alarm may be muted. There should be a Membrane Keypad with LCD/LED to set and display operating parameters, current status, running time and alarm conditions for time and temperature. Internal glass door for the observation; On castors for easy movements CO2 Range- 0-20%; CO2 Accuracy: +/- 0.5%; CO2 Inlet pressure 1.5 bars (app) and fast recovery after opening door. Compensation: Temperature compensation @ 0.5 deg</p>	01

		<p>C / min and CO<sub>2</sub> Compensation up to 5%+/-0.5% in 5 minutes. High Humidity Chamber to achieve 95% RH, minimizing sample evaporation. Independent door heater to eliminate condensation on inner glass surfaces should be available. 72-Hour Data Storage for CO<sub>2</sub> concentration, temperature, alarms and door openings should be automatically recorded for on-screen displays. Data output for data acquisition and printing. Interior lighting facility, insulated door fitted with heavy hinges handles locking, mechanical door lock. Low water alarm/ indication CO<sub>2</sub> cylinders 2 nos. (capacity at least 30 kg) with regular (at least one) compatible to machine part Environmental factors: The unit shall be capable of operating continuously in ambient temperature of 10 -450 C and relative humidity of 15-90%. Power Supply:- Power input to be 220-240VAC, 50Hz fitted with plug, compatible with local electrical socket; Resettable over current breaker shall be fitted for protection Suitable voltage corrector/stabilizer Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system. Standards and Safety:- Should be compliant to ISO 13485/ISO 9001 quality systems or equivalent Should be compliant with IEC 61010-1: covering safety requirements for electrical equipment for measurement control and laboratory use. Should be US FDA or European CE or equivalent certified. Attach original manufacturer's product catalogue and specification sheet. Photocopy/ computer print will not be accepted. All technical data to be supported with original product data sheet. Comprehensive onsite training for lab staff and support services till familiarity with the system. Documentation: Certificate of calibration and inspection from factory. List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	
3	<b>Autoclave</b>	<p><b>Sterilize instrument and equipment, eliminate pathogens and cure materials.</b></p> <p>Autoclave Vertical, Double walled made of thick high-grade stainless-steel sheet of SS-304 grade or better., Capacity (Litres): min. 50 Ltr, Operating range: Temp.:100-135°C (sterilizing), 50-100°C (warming) &amp; 50-100 °C (heating); Pressure: Up to 25-30psi with dial pressure gauge. Working Temperature: 121°C at 15 to 20 psi pressure. Inner &amp; Outer chamber, Supply complete with stainless steel basket, chord and plug. The lid made of stainless-steel sheet, Unit fitted with Double safety radial locking system with paddle lifting device, made of MS chrome plated and provided with pressure gauge (02.1kgf/cm<sup>2</sup>), safety device, safety valve, eject valve and neoprene/silicon gasket. Steam, Vacuum Release and Water Draining by Valve, LED display for time and temperature. Automatic Pressure Control Switch - To cut-off the current from the heating elements, when the desired/ set pressure value level is attained inside the chamber and restarts the mechanism once the pressure inside the chamber falls from the desired level. Automatic Water Cut-off Device - To protect the heaters from running dry and to ensure that the machine is automatically switched off in case the desired water level falls below the prescribed level (cut off with audible alarm), water inlet and outlet valves, water level indicator. Timer with Alarm System - To regulate the sterilization time of the media to be sterilized with a buzzer. Steel stand for keeping autoclave drum on it. Electrically heated by immersion type heaters bearing ISI mark. Power Supply: 220-230V, 50Hz. One spare rubber gasket and electric element must be provided for autoclave. The apparatus should conform to national or international standards with latest amendments covering Markings, Safety requirements with recommendations of safe operations from any reputed firm with ISO 9001:2000 &amp; CE Certification.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01
4.	<b>Laminar Air Flow</b>	<p><b>Used to create a sterile particle free environment for sensitive task, such as in laboratories for plant tissue culture and preparing media plants.</b></p> <p>Specification Sheet – Horizontal Laminar Air-Flow Cabinet</p> <ul style="list-style-type: none"> <li>- Air - flow direction: Horizontal (essential), Air - flow velocity: 0.4 – 0.45 m/s (essential), Minimum internal dimensions: 4 ft × 2 ft × 2 ft (essential), UMDNS designation: Biological Safety, Class II – Code 20-653 (essential), Safety certifications: CE (European), Quality management standards: ISO 9001 &amp; ISO 13485, Air cleanliness class: Class 100, Noise level: ≤ 65 dB (±5 dB), Front access: Sliding sash door (motor-operated), Display: LCD panel with LED back-lighting, Work-bench material: Stainless steel 304 grade, Side panels: Acrylic, 2 mm thick, Doors/frames: Hermetically sealed, Filtration: DOP-tested HEPA filter (required), Washable pre-filter, 10 µm (required), UV hour meter: Required, Warranty: Minimum 3 years (essential); bidders may offer up to 5 years, Documentation: Copies of all certifications and test reports to be supplied on demand; instruction manual and original brochure to be provided,</li> </ul>	02

		Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.	
5.	<b>Conductivity meter</b>	<p><b>To measure the electrical conductivity of a liquid to assess its purity, ionic concentration and total dissolved solids (TDS).</b></p> <p>Conductivity Range 6 auto-selected from 0 to 19.99S* Resolution 0.01µS -0.01S Accuracy ±0.5% ±2 digits Automatic std. recognition 10µS, 84µS, 1413µS, 12.88mS Cell constant 0.010 to 19.999 TDS 6 auto selected ranges Ranges 0-1999g/l* Resolution 0.01mg/l -1g/l Accuracy ±0.5% ±2 digits EC ratio 0.50 to 0.80 Resistivity Range 0-20Mohm Resolution 0.01Mohm Accuracy ±0.5% ±2 digits Salinity Range 0-99.9g/l Resolution 0.1g/l Accuracy 0-35 ±1g/l, 35-99.9 ±3g/l Temperature Range -10 to 105°C Resolution 0.1°C Accuracy ±0.5°C ATC and manual 0 to 100°C Temperature coefficient 0.00% to 4.00%/°C Reference temperature 18, 20 or 25°C GLP Calibration reminder interval, alarm outputs and security code protected data Outputs Analogue, RS232 and IrDA interface Connector 7-pin DIN Power 9V AC ±10% @ 50/60Hz Size (l x w x d) 210 x 250 x 55mm Weight 850g *With k=10 cell</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01
6.	<b>Hot air oven</b>	<p><b>Sterilizing heat resistant items like glassware, metal instruments and powders by killing microorganisms through oxidation and desiccation and performing thermal testing on materials like plastics and rubber.</b></p> <p>External/internal body and other parts like tray etc should be made of high quality material like SS316 or better. Proper facility for ventilation and air circulation.Temperature Range: 50°C to 300°C or better . Temp. Set and display sensitivity: Temp. Variation: ± 1 °C. Material: Stainless Steel or better . No. of Shelves: 3 or more , Chamber Size: 18"X18"X18" or better (Should be fitted on 2.5 feet bench). Accuracy: ±2°C or better . Microprocessor control system and digital displays, Digital sample temperature display; control panel option Provision for door safety locking system. Accessory: Electric codes (1 Pc), Gloves (1 pair), and Tong (2 Pc), removable stainless steel racks (2 pc extra). Power Supply: 100-240V,50/60 Hz.Voltage (V)--220volt, Frequency (Hz) Series--50 Hz</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	02
7.	<b>Phase Contrast attachments and Dark field condenser</b>	<p><b>To increase contrast in transparent, unstained specimens by converting phase shifts into amplitude differences.</b></p> <p>Consist of Phase Contrast Turret Condenser, Centering Telescope CT Phase Contrast Objectives 10x,20x, 40x. Auxiliary Clamping Wrench. Accessories Case</p> <p>Specifications of the Phase Contrast Turret Condenser: Achromatic aplanatic condenser-, N.A. 1.40 .with built -in light annuli for 10x,20x, 40x and 100x Objectives, turret type, centerable. Built-in aperture iris diaphragm with aperture scale. Built-in dark field aperture stop. N.A. 0.9 - 1.4.</p> <p><u>Darkfield Condenser NA 0.7-0.9 for Biological Compound Microscopes</u></p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01
8.	<b>Digital microscope with camera</b>	<p><b>To magnify small objects, display the live, high resolution image on a screen and allow for instant capture, saving and sharing images or videos for analysis and documentation.</b></p> <p>Optical System: CFI Infinity Optical System, Anti-mould design used in Eyepieces, Objective and Binocular/Trinocular Eyepiece tube. Illumination: High luminescent white LED illuminator (Eco-illumination)Compliant multi-voltage (100 V-240 V),Eyepieces (F.O.V.): CFI E 10x (18 mm).</p> <p>Focusing :Coaxial coarse/fine focusing, Cross roller guide, Focusing stroke: 22mm, Coarse: 37.7 mm/rotation, Fine: 0.2 mm/rotation,Coarse motion torque adjustable.</p> <p>Eyepiece Tube : Wide Field Eyepiece WF10×/ 18 with diopteradjustment, Eyepiece/Port: 100/0, 0/100, 360° rotatable,Siedentopf-type with inclination angle 30 degree with user provision for change eye point height.</p> <p>Nosepiece: Quadruple nosepiece (within main body), Revolving mechanism with multiple ball bearings, Elastic nosepiece grip-ring. Stages: Double Plate Rectangular mechanical stage (within main body), with specimen holder, with Vernier calibrations, Objectives Finite Semi-Plan Achromatic Objective 4×, 10×, 40×, 100×, Spring loaded.</p> <p>Condensers : Abbe Condenser N.A. 1.25, Aperture diaphragm with position guide marking for respective objective.</p> <p>ObservationMethods: Brightfield,Dark field, Phase contrast (provision for upgradation).</p> <p>Power Consumption (max.) Normal value: 3 W (LED model), Supplied with Dust cover, immersion oil and user manual. New machining facility and advanced alignment technology.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01

9.	Digital Bacteriological incubator	<p><b>To provide a controlled, stable and optimal environment for growing and maintaining microbial cultures such as bacteria.</b></p> <p>Capacity:125-150l. Double walled construction with complete inner chamber made of highly polished stainless steel. Outer chamber should be of steel sheet finished with powder coated paint. Insulation to maintain desired temperature. Inner chamber should be fabricated with ribs for adjusting No of shelves-2-3. Shelves should be made of polished stainless steel sheet as per chamber. Doors to be insulated and fitted with heavy hinges and should have double glass window. Temperature should be thermostatically controlled with range from 20-90° C. Air ventilators to be provided on both sides. The equipment should be provided with control panel having a thermostat control knob, on-off switch, pilot lamp and timer, digital indicator. Should be supplied with power cord and plug suitable to operate on 220 V, single phase, 50 Hz, AC supply. Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01
10	BOD Incubator	<p><b>To provide a controlled, consistent low temperature environment for incubating microbial cultures and performing specific biological and environmental tests.</b></p> <p>Temperatures ranging from +5°C to +60°C with excellent stability. Single-setpoint microprocessor control for temperature setting. Digital display. Capacity: 500 liters. Temperature: Stability <math>\pm 0.3^\circ\text{C}</math>, Uniformity @ <math>20^\circ\text{C} \pm 0.8^\circ\text{C}</math> &amp; Uniformity @ <math>37^\circ\text{C} \pm 0.8 / 1.0^\circ\text{C}</math>. Access port and RS232 for temperature monitoring. Timer function for automatic start or shut down of unit (0 to 99:59 hours: minutes). CFC free refrigerant. Over and under temperature alarm. Over temperature cut-out and fan motor overheating protection for additional safety. Door alarm: Alerts operator of open door after ~10 seconds (visual and audible) to prevent samples from being exposed to Outside Environment temperature. Glass window in door for undisturbed inspection of samples. and No. of shelves :2-4. Interior lighting facility, insulated door fitted with heavy hinges handles locking, mechanical door lock. Machine should be Energy Efficient. Compatible servo stabilizer for the Machine.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01
11	Analytical balance	<p><b>Provide highly accurate and sensitive measurement for small quantities of solids, liquids or powders.</b></p> <p>Capacity--220g ,Accuracy--0.0001g ,Calibration-- auto external ,Pan Size--90mm ,Readability--0.0001g ,Weighing Capacity--220g-1kg ,Linearity--+/- 0.0002g , +/- 0.2mg  Power Source—Electric ,Voltage--110 to 230V ,Repeatability--+/- 0.01mg ,Sensor--EMFC, Magnet, monolg single  Material-- Stainless Steel ,Port-- RS232, USB ,Automation Grade—Automatic ,Color--Off White ,Stabilization Time--2 to 4 sec ,Response Time--4 to 6 sec .  ,Frequency--50 to 60Hz ,Weight--4kg ,Display-- Backlit LCD Display ,Standard Features :High contrast, Large Backlit LCD Display for easy viewing with (Advance Eye protection) ,Based on EMFC Brilliant MONOLOG single block technology, Strong anti-shaking software for the accurate result in normal vibration surface, Standard RS 232 C interface USB port, easy to connect with PC / Printer ,Single touch key Fully Auto External / internal calibration,Overloadprotection,design.,Mass unit conversion by toggling,Conforms GLP / GMP and ISO 9001Standard.,20 standard global weighing units ,User selectable stability and filter level.Easy operating system.Below weighing system provided.  Auto Density determination facility,GSM weighing facility  High-grade chemical resistance body.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01
12	Digital pH meter	<p><b>To measure the acidity or alkalinity of a solution by determining its hydrogen ion concentration.</b></p> <p>Table Top Digital pH Meter.pH Range: 0 to 14 Resolution: 0.01 Accuracy: <math>\pm 0.01</math> Repeatability: <math>\pm 0.01</math> Stability: <math>\pm 0.05</math> in 8 hrs. Emf in mV Range: <math>\pm 1999</math>. Upgradable for ORP measurement: Up to five point calibration with auto buffer recognition. Non-volatile memory holds upto 100 data points. Splash proof key pad.LCD display. pH Calibration points: up to 5 Buffer set: 1.68, 4.01, 7.00, 10.01 and 12.45 . Temperature Range: 0 –100 °C, Resolution: 0.1 °C , Accuracy: <math>\pm 0.3</math> °C. ORP Range: <math>\pm 2000</math> mV , Rel. mV range: <math>\pm 2000</math> mV , Resolution: 0.1 mv (<math>\pm 199.9</math> mV) / 1 mV (beyond) ,Accuracy: <math>\pm 0.2</math> mV (<math>\pm 199.9</math> mV) / <math>\pm 2</math> mV (beyond).Two channel for pH, mV and temperature measurements. Should have RS.232C output and supply data connector cable, including cover and stand, pH electrode, temperature probe stand reference refill</p>	02

		electrolyte calibration solutions. Additional pH electrode must be included. Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.	
13	Binocular Microscope	<p><b>To allow comfortable, high resolution viewing and analysis of small objects with the added benefits of digital imaging such as capturing images recordings videos and performing measurements.</b></p> <p>Standard Complete set with Binocular Head, in built 6V-20W halogen light illuminator, with Anti Fungus Achromatic objectives 4X, 10X, 40X and 100X oil immersion, paired eyepieces wide field 10X .Anti - Fungus Optics, interchangeability of Objectives, the abbe condenser &amp; the light relay system fitted with high performance aspheric lenses for bright &amp; crisp image, window in arm &amp; the Ergonomic design, illumination system through SMPS circuit etc.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	05
14	Incubator Shaker	<p><b>Provide a controlled temperature environment while simultaneously shaking or agitating samples.</b></p> <p>Speed Range should be 25 to 400 rpm +/- 1 rpm or wider. Temperature Range: At least 4°C below ambient to 40°C or more. Controller: Programmable for speed up/down and temperature up/down on a timed basis. Programmable shaking time: 1min to 480min or more. Universal tray with clamps should have capacity to hold for variable sizes (50ml to 5liter or more). The instruments should have the capacity to hold minimum 16-18 numbers of 250 ml flasks . System should have UV light for decontamination. Should have stackable incubator shakers i.e. one unit can be stacked on other unit for space saving. Alarms System should have audio visual alarms if units operate beyond set temperature and speed .Clamps to be supplied: 50ml-10nos, 125ml-6nos, 250ml-6nos, 500ml-3nos. . The system should be suited to Indian System of Electrical inputs (220V/50Hz) .All accessories needed to make the equipment functional, must be supplied</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01
15	Laboratory Freeze 2-8	<p><b>Preserves perishable materials like regents, vaccines and biological samples that must be kept cool not frozen.</b></p> <p>Should have 500 Lt capacity, and temperature range 2-8 °C Compressor warranty- 5 yrs. Exterior- Spray cold rolled steel plate, and a glass door. Inner Material- Stainless steel, and have LED light Should have auto-defrosting system, should work in 32 degree ambient. Microprocessor controller for precise temperature, with digital display The well-developed audible &amp; visual alarm functions: High/Low Temperature, Sensor Error, Low Battery, Power Failure, Remote Alarm contact, USB data log failure, condenser overheating &amp; Main board communication error, USB data logger for temperature recording, have door ajar. Other alarm- high ambient temperature, condenser overheating, built-in USB data-logger failure Password protection controller/ key lock CFC &amp; HFC free and R290 refrigerant, should have door heating, should have RS485 port, temperature uniformity is 2, and cooling time 60 mins. Should have with stabilizer.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01
16	Nano drop Spectrophotometer	<p>to quickly measure the concentration and purity of nucleic acids (DNA/RNA) and proteins from very small sample volumes (1–2 µL) without dilution.</p> <p>Specifications for Nanodrop: Sample Volume – 0.5µL. Sample Number - 1 Path Length: 1mm (auto ranging to 0.05mm) Light Source: Xenon flash lamp Detector Type - 2048 – element linear , Silicon CCD array Wavelength Range – 190 – 840nm Wavelength Accuracy 1 nm Spectral Resolution &lt; 1.8nm (FWHM at HG 253.7nm) Absorbance Precision: 0.002 (1mm path) Absorbance Accuracy: 2% (at 0.76 absorbance at 257 nm) Absorbance Range : 0.02-300 (10mm equivalent) Detection limit: 2ng/µL (ds DNA) Max.Concentration : 15,000 ng/µL (dsDNA) Measurement Time: &lt;5 seconds Footprint : 14 x 20cm Sample Pedestal – Material of Construction – 303 stainless steel and quartz fiber Operating Voltage – 12 vdc Operating Power consumption 12 – 18 W (max 30W) Standby Power Consumption – 5W Software Compatibility – Windows® XP and Vista™ (32 bit). Increased dynamic range for dilute samples (e.g. to 0.4 ng/uL for sDNA) Support for kinetics experiments OD measurements for bacterial cultures Built-in stirring capability Temperature control at 37°C Pre-programmed methods for: ssDNA, dsDNA, RNA, oligoDNA, oligoRNA,</p>	01

		<p>microarray (fluorescently labeled nucleic acid), Protein (A280), Protein A205, Protein colorimetric (Bradford, BCA, Lowry and Pierce™ 660), Proteins &amp; Labels (labeled proteins), OD600, Kinetics, Custom Methods, UV-Vis Wireless capabilities should include: Bluetooth for connecting a keyboard and mouse Wi-Fi network connection for exporting and archiving data to a server. The spectrophotometer should be supplied with branded compatible computer system With Licensed Windows Professional Software</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	
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# University of Kota, Kota

कोटा विश्वविद्यालय, कोटा

MBS Marg, Kabir Circle, Kota

Ph. No.-0744-2472912/2472934 e-mailID:-[registrar@uok.ac.in](mailto:registrar@uok.ac.in)

## GENERAL CONDITIONS OF BID & CONTRACT

Note: - Bidders should read these conditions carefully and comply strictly while sending their bids.

1.	Bids must be enclosed in a properly sealed envelope according to the direction given in the Bid Notice.
2.	“Bids by bona-fide dealers: - Bids shall be given only by bona-fide dealers in the goods. They shall, therefore, furnish a declaration in the Annexure-B as prescribed in RTPP Rules, 2013.
3.	<p>(i) Any change in the constitution of the firm, etc. shall be notified forth with by the contractor in writing to the Procurement Entity and such change shall not relieve any former member of the firm, etc. from any liability under the contract.</p> <p>(ii) No new partner/partners shall be accepted in the firm by the contractor in respect of the contract unless he/they agree to abide by all its terms, conditions and deposit with the Procurement Entity a written agreement to this effect. The contractors receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient to discharge for any of the purpose of the contract.</p>
4.	GST Registration:-GST Registration Number should be attached with bid and GST certificate from the concerned Officer of the Circle Concerned shall be submitted without which the tender is liable to rejection.
5.	In case of e-bidding, bid forms shall be filled electronically & to be submitted online. Bid filled physically shall not be considered. The bidder shall sign the bid form at each page and at the end in token of acceptance of all the terms and conditions of the bid.
6.	Rates shall be written both in words and figures. There should not be errors and/or over writings. Corrections, if any, should be made clearly and initiated with dates. The bidder should mention element of statutory taxes such as RGST/CGST, Entry Tax etc. separately as per BOQ/financial bid format.
7.	All rates quoted must be FOR and should include all incidental charges except statutory taxes such as Central/Rajasthan GST, Entry Tax etc. which should be shown separately. In case of local supplies the rates should include all taxes, etc., and no cartage or transportation charges will be paid by the University of Kota, Kota and the delivery of the goods shall be given as per delivery schedule. Goods to be purchased are for the purpose of official use, hence octroi is not payable. The rates, therefore, should be exclusive of octroi, and local tax.
8.	Purchase Preference:- Purchase preference will be given to the bidders as per the provisions of RTPP Act 2012 & RTPP Rules 2013, as amended from time to time.
9.	Validity: -Bid shall be valid for a period of three months from the Next date of opening of Technical Bid.
10.	The approved supplier shall be deemed to have carefully examined the conditions, specifications, size, make and drawings, etc., of the goods to be supplied. If he has any doubts as to the meaning of any portion of these conditions or of the specification, drawing, etc., he shall, before signing the contract, refer the same to the Procurement Entity and get clarification.
11.	The contractor shall not assign or sub-let his contract or any substantial part thereof to any other agency.
12.	<p>Specifications:-</p> <p>(i) All article supplied shall strictly conform to the specifications, trade mark laid down in the bid form and wherever articles have been required according to ISI specifications, those articles should conform strictly to those specifications and should bear such marks.</p> <p>(ii) The supply of articles marked with asterisk/at serial number ..... shall in addition, conform strictly to the approved samples and in case of other material where there are no standard or approved samples, the supplies shall be of the best quality and description. The</p>

	<p>decision of the Procurement Entity/Purchase Committee whether the articles supplied conform to the specifications and are in accordance with the samples, if any, shall be final and binding on the Bidders.</p> <p>(iii) <b>Warranty/Guarantee Clause:</b> - The bidder would give guarantee that the goods/stores/articles would continue to conform to the description and quality as specified for a period of <b>5 year (for item no. 1 to 16 of BOQ)</b> from the date of delivery of the said goods/stores/articles to be purchased and that notwithstanding the fact that the purchaser may have inspected and/or approved the said goods/stores/articles, if during the aforesaid period of <b>5 years</b>, the said goods/stores/ articles be discovered not to confirm to the description and quality aforesaid or have determined (and the decision of the Procurement Entity in that behalf will be final and conclusive), the purchaser will be entitled to reject the said goods/stores/ articles or such portion thereof as may be discovered not to conform to the said description and quality, on such rejection the goods/articles/stores will be at the seller's risk and all the provisions relating to rejection of goods, etc., shall apply. The bidder shall if so called upon to do, replace the goods, etc. or such portion thereof as is rejection by the Procurement Entity, otherwise the bidder shall pay such damage as may arise by reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Procurement Entity in that behalf under this contract or otherwise.</p> <p>(iv) In case of machinery and equipment also, guarantee will be given as mentioned in clause (iii) above and the bidder shall during the guarantee period replace the parts if any and remove any manufacturing defect if found during the above period so as to make machinery and equipment operative. The bidder shall also replace machinery and equipments in case it is found defective which cannot be put to operation due to manufacturing defect, etc.</p> <p>(v) In case of machinery and equipment specified by the Procurement Entity the bidder shall be responsible for carrying out annual maintenance and repairs on the terms and conditions as may be agreed. The bidder shall also be responsible to ensure adequate regular supply of spare parts needed for a specific type of machinery and equipments whether under their annual maintenance and repairs rate contract or otherwise. In case of change of model he will give sufficient notice to the Procurement Entity who may like to purchase spare parts from them to maintain the machinery and equipments in perfect condition.</p>
13.	<p><b>INSPECTION:-</b></p> <p>(a) The Procurement Entity or his duly authorized representative shall at all reasonable time have access to the suppliers premises and shall have the power at all reasonable time to inspect and examine the materials and workmanship of the goods/equipments/machineries during manufacturing process or afterwards as may be decided.</p> <p>(b) The bidder shall furnish complete address of the premises of his office, godown and workshop where inspection can be made together with name and address of the person who is to be contacted for the purpose. In case of those dealers who have newly entered in business, a letter of introduction from their bankers will be necessary.</p>
14.	<p><b>Samples:</b> -Bids for articles marked within the schedule shall be accompanied by two set of samples of the articles bided properly packed &amp; signed. Such samples if submitted personally will be received in the office. A receipt will be given for each sample by the officer receiving the samples. Samples if sent by train etc. should be dispatched freight paid and the R/R or G.R. should be sent under a separate registered cover. Samples for catering/food items should be given in plastic box or in polythens bags at the cost of the bidder.</p>
15.	<p>Each sample shall be marked suitably either by written on the sample or on a slip of durable paper securely fastened to the sample, the name of the bidder and serial number of the item, of which it is a sample in the schedule.</p>
16.	<p>Approved samples would be retained free of cost up to the period of six months after the expiry of the contract. The University of Kota, Kota shall not be responsible for any damage, wear and tear or loss during testing, examination, etc. during the period these samples are retained. The sample shall be collected by the bidder on the expiry of stipulated period. The University of Kota, Kota shall in no way make arrangements to return the samples. The samples uncollected within 9 months after expiry of contract shall be forfeited by the University of Kota, Kota and no claim for their cost, etc., shall be entertained.</p>

17.	Samples not approved, shall be collected by the unsuccessful bidder. The University of Kota, Kota will not be responsible for any damage, wear and tear, or loss during testing, examination, etc., during the period these samples are retained. The uncollected samples shall be forfeited and no claim for their cost, etc., shall be entertained.
18.	Supplies when received shall be subject to inspection to ensure whether they conform to the specifications or with the approved samples. Where necessary or prescribed or practical, tests shall be carried out in University of Kota, Kota laboratories and reputed testing house like MSME Testing Station, Jaipur etc. and the supplies will be accepted only where the articles conform to the standard of prescribed specifications as a result of such test.
19.	<b>Drawl of Samples:</b> -Incase of tests, samples shall be drawn in four sets in the presence of bidder or his authorized representative and properly sealed in their presence. One such set shall be given to them, one or two will be sent to the laboratories and/or testing house and the third or fourth will be retained in the officer for reference and record.
20.	<b>Testing Charges:</b> - Testing charges shall be borne by the University of Kota, Kota. In case urgent testing is desired to be arranged by the bidder or in case of test result showing that supplies are not up to the prescribed standards or specifications, the testing charges shall be payable by the bidder.
21.	<p><b>Rejection:-</b></p> <p>(i) Articles not approved during inspection or testing shall be rejected and will have to be replaced by the bidder at his own cost within the time fixed by the Procurement Entity.</p> <p>(ii) If, however, due to exigencies of University of Kota, Kota work, such replacement either in whole or in part, is not considered feasible, the Procurement Entity after giving an opportunity to the bidder of being heard shall for reasons to be recorded, deduct a suitable amount from the approved rates. The deduction so made shall be final.</p>
22.	The rejected articles shall be removed by the bidder within 15 days of intimation of rejection, after which Procurement Entity shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as he thinks fit, at the bidder's risk and on his account.
23.	The bidder shall be responsible for the proper packing so as to avoid damage under normal conditions of transport by sea, rail and road or air and delivery of the material in good condition to the consignee at destination. In the event of loss, damage, breakage or leakage or any shortage the bidder shall be liable to make goods such loss and shortage found at the checking/inspection of the materials by the consignee. No extra cost on such account shall be admissible.
24.	The contract for the supply, can be repudiated at any time by the Procurement Entity, if the supplies are not made to his satisfaction after giving an opportunity to the bidder of being heard and recording of the reasons for repudiation.
25.	Direct or indirect canvassing on the part of the bidder or his representative will be a disqualification.
26.	<p>(i) <b>Delivery Period:</b> - The bidder whose bid is accepted shall arrange supplies/services within a period of 30 Days from the date of supply/work order.</p> <p>(ii) <b>Extent of quantity – Repeat orders:</b> - If the orders are placed in excess of the quantities shown in the bid notice, the bidder shall be bound to meet the required supply. Repeat orders for extra items or additional quantities may be placed on the rate and conditions given in the bid. Delivery or completion period may also be proportionately increased. The limits of repeat order shall be as under:-</p> <p>(a) 50% of the quantity of the individual items and 50% of the value of original contract in case of works and;</p> <p>(b) 50% of the value of goods or services of the original contract;</p> <p>(c) <b>If the bidder fails to do so, the Procurement Entity shall be free to arrange for the balance supply by limited bid or otherwise and the extra cost incurred shall be recoverable from the bidder.</b></p> <p>(iii) If the Procurement Entity does not purchase any of the bided articles or purchases less than the quantity indicated in the bid form, the bidder shall not be entitled to claim any compensation.</p>

27.	<p><b>Bid Security (B.S.):-</b></p> <p>(a) Bid shall be accompanied by Bid Security @ 2% of estimated value of the bid, without which bids will not be considered. The amount should be deposited in either of the following forms in favour of University of Kota, Kota:-</p> <p>(i) Bank Draft/Bankers Cheque/ Bank Guarantee in specified format of the scheduled Bank/Cash.</p> <p>(ii) Bid Security must remain valid 30 days beyond the original or extended validity period.</p> <p>(b) <b>Refund of Bid Security:</b> - The Bid Security of unsuccessful bidder shall be refunded soon after final acceptance of bid i.e. after deposit of performance security &amp; signing of Agreement.</p> <p>(c) <b>Partial exemption from Bid Security:</b> - In case of Small Scale Industries of Rajasthan, the bid security will be 0.5% of the quantity offered for supply and in case of sick industries, other than small scale industries, whose cases are pending with Board of Industrial and Financial Reconstruction, it shall be 1% of the value of bid.</p> <p>(d) The central Government and Government of Rajasthan undertakings need not furnish any amount of Bid Security. However, they shall have to furnish a bid securing declaration as per rule 42 of RTPP Rules, 2013.</p> <p>(e) The Bid Security/Performance Security money deposit lying with the Department/office in respect of other bids awaiting approval or rejected or on account of contracts being completed will not be adjusted towards Bid Security/Performance Security money for the fresh bids. The Bid Security may however, be taken into consideration in case bids are re-invited.</p>
28	<p><b>Forfeiture of Bid Security:-</b> The Bid Security will be forfeited in the following cases:</p> <p>(a) When bidder withdraws or modifies its bids after opening of bids;</p> <p>(b) When bidder does not execute the agreement if any, after placement of supply/work order within specified time;</p> <p>(c) When the bidder fails to commence the supply of the goods or service or execute work as per supply/work order within the time specified;</p> <p>(d) When the bidder does not deposit the performance security within specified period after the supply/work order is placed; and</p> <p>(e) If the bidder breaches any provision of code of integrity prescribed for bidders specified in the Act and Chapter VI of RTPP rules.</p>
29.	<p><b>Agreement and Performance Security deposit (Rule 75 &amp; 76 of RTPP Rules, 2013):-</b></p> <p>(1) (i) A Successful bidder shall sign the procurement contract in the prescribed format and deposit performance security. The amount of performance security shall be <b>5%</b> of the amount of supply order in case of procurement of goods and services. In case of Small-Scale Industries of Rajasthan, it shall be <b>1.0%</b> and in case of sick industries, other than Small Scale Industries, whose cases are pending before the BIFR, it shall be <b>2.0%</b> of the amount of supply order. The bidder shall have to execute the agreement on a non-judicial stamp of Rs. 500/- at its cost.</p> <p>(ii) Performance security shall be furnished by the successful bidder within the 15 days from the date of award of contract.</p> <p>(iii) No interest will be paid by the department on the Performance Security money.</p> <p>(iv) Performance security shall be furnished in any one of the following forms:-</p> <p>a. Bank Draft or Banker's Cheque of a scheduled bank;</p> <p>b. National Saving Certificates and any other script/instrument under National Saving Schemes for promotion of small saving issued by a Post Office in Rajasthan, if the same can be pledged under the relevant rules. They shall be accepted at their surrender value at the time of bid and formally transferred in the name of procuring entity with the approval of Head Post Master.</p> <p>c. Bank guarantee/s of a scheduled bank.</p> <p>d. Fixed Deposit Receipt (FDR) of a Scheduled Bank.</p> <p>(v) The Performance security furnished in the form specified in clause (a) to (d) shall remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the bidder, including warranty obligations and maintenance and defect liability period.</p>

	<p>(vi) The Performance Security to be refunded within one month of the final supply of the items as per purchases order in case of one time purchase and two months in case delivery is staggered, after the expiry of contract on satisfaction completion of the same or after the expiry of the period of guarantee if any, whichever is later and after satisfied there are no dues outstanding against the bidder.</p> <p>(2) Central Government and Government of Rajasthan Undertakings will be exempted from furnishing Performance security amount. However, they shall have to furnish a performance security declaration as per Rule 75 of RTPP Rules, 2013.</p> <p>(3) Forfeiture of Performance Security Deposit:- Performance Security amount in full or part may be forfeited in the following cases:-</p> <ul style="list-style-type: none"> <li>(a) When any terms and conditions of the contract is breached.</li> <li>(b) When the bidder fails to make complete supply satisfactorily.</li> <li>(c) Notice of reasonable time will be given in case of forfeiture of performance security deposit. The decision of the Procurement Entity in this regard shall be final.</li> </ul> <p>(4) The expenses of completing and stamping the agreement shall be paid by the bidder and the department shall be furnished free of charge with one executed stamped counter part of the agreement as per provisions of RTPP Act 2012 &amp; Rules 2013.</p>								
30.	<p><b>Insurance:-</b></p> <p>(i) The goods will be delivered at the destination go down in perfect condition. The supplier, if he so desires, may be insured the valuable goods against loss by theft, destruction or damage, by fire, flood, under exposure to whether or otherwise viz. (war, rebellion, riot, etc.). The insurance charges will be borne by the supplier and University of Kota will not be required to pay such charges, if incurred.</p> <p>(ii) The articles may also be got insured at the cost of the Purchaser, if so desired by the purchaser. In such cases, the insurance should invariably be with Life Insurance Corporation of India or its subsidiaries.</p>								
31.	<p><b>Payments:-</b></p> <p>(i) Unless otherwise agreed between the parties, payment for the delivery of the stores will be made on completion of supply satisfactorily and on submission of bill in proper form by the bidder to the</p> <p>(ii) Procurement Entity in accordance with relevant provisions of BF&amp;AR, GF&amp;AR and RTPP Act 2012 &amp; Rules 2013, as amended from time to time and all remittance charges will be borne by the bidder.</p> <p>(iii) In case of disputed items, 10 to 25% of the amount shall be withheld and will be paid on settlement of the dispute.</p> <p>(iv) Payment in case of those goods which need testing shall made only when such tests have been carried out, test results received conforming to the prescribed specification.</p>								
32.	<p><b>Liquidated Damages:-</b></p> <p>(a) (i) The time specified for delivery in the bid form shall be deemed to be the essence of the contract and the successful bidder shall arrange supplies within the period on receipt of the firm order from the purchase officer.</p> <p>(ii) Liquidated Damages:- In case of extension in the delivery period with liquidated damage the recovery shall be made on the basis of following percentage of value of stores which the bidder has failed to supply:-</p> <table border="1"> <tr> <td>Delay up to one fourth period of the prescribed delivery period</td> <td>2½%</td> </tr> <tr> <td>Delay exceeding one fourth but not exceeding half of the prescribed period</td> <td>5%</td> </tr> <tr> <td>Delay exceeding half but not exceeding three fourth of the prescribed period</td> <td>7½%</td> </tr> <tr> <td>Delay exceeding three fourth of the prescribed period</td> <td>10%</td> </tr> </table> <p>(b) Fraction of a day in reckoning period of delay in supplies shall be eliminated if it is less than half a day.</p> <p>(c) The maximum amount of liquidated damage shall be 10%</p> <p>(d) If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to the authority, which has placed the supply order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.</p> <p>(e) Delivery period may be extended with or without liquidated damages if the delay in the</p>	Delay up to one fourth period of the prescribed delivery period	2½%	Delay exceeding one fourth but not exceeding half of the prescribed period	5%	Delay exceeding half but not exceeding three fourth of the prescribed period	7½%	Delay exceeding three fourth of the prescribed period	10%
Delay up to one fourth period of the prescribed delivery period	2½%								
Delay exceeding one fourth but not exceeding half of the prescribed period	5%								
Delay exceeding half but not exceeding three fourth of the prescribed period	7½%								
Delay exceeding three fourth of the prescribed period	10%								

	supply of goods is on account of hindrances beyond the control of the bidder.
33.	<p><b>Risk &amp; Cost clause:-</b> The competent authority of UOK without prejudice to his right against the approved supplies in respect of any delay or inferior performance of otherwise or claims for delay in respect of any breaches of the contract and without prejudice to any rights or remedies under any of the provisions of the contract or otherwise, by notice in writing absolutely determined the contract in any of the cases.</p> <p>(i) A notice in writing to rectify, or otherwise that the work being performed is inefficient or otherwise implemented in improper manner, shall omit to comply with the requirement of such notice within a period of 07 days or for prescribed time, thereafter of if the supplier shall delay or suspended the execution of the work so that either in the judgment of the competent authority, he will be unable to perform the work by the satisfaction of UOK or has already failed to complete the work by the time.</p> <p>(ii) If the supplier commits breach of the terms &amp; conditions the contract.</p> <p>(iii) When the supplier has made himself liable for action under any of the cases aforesaid , the competent authority, shall exercise power:-</p> <p>(a) To determine or rescind the contract, as aforesaid , upon such determination or rescission , the bid security, performance security shall be liable to be forfeited and shall be absolutely at the disposal of UOK.</p> <p>(b) To get the work done through other service provider (SP) and in such case any expenses which may be incurred in excess, of the sum which would have been paid to the original SP, if the whole work had been executed by him of the amount of which excess, the decision of the UOK shall be final and conclusive and shall be borne and paid by the original SP that may be deducted from any money due to him by the UOK or from his bid security, performance security. However the original SP shall have no claim to compensation for any loss sustained by him or reason for having purchased or procured any material, equipment or entered into any engagements or made advances on account of execution/performance of contract.</p>
34.	<p><b>Recoveries:</b> - Recoveries of liquidated damages, short supply breakage, rejected articles shall ordinary be made from bills. Amount may also be withheld to the extent of short supply, breakages, rejected articles and in case of failure in satisfactory replacement by the supplier along with amount of liquidated damages shall be recovered from his dues and security deposit available with the department. In case recovery is not possible recourse will be taken under Rajasthan PDR Act or any other law in force.</p> <p>Any recovery on account of LD charges/ risk &amp; cost charges in respect of previous rate contracts/supply orders placed on them by the University of Kota can also be recovered from any sum accrued against this e-Bid after accounting for untied sum or due payment sum lying with the University of Kota against previous rate contract/supply orders. Firm will submit details of pending amount lying with the University of Kota but decision of the University of Kota regarding authenticity of sum payable will be final.</p>
35	<p><b>Price Fall Clause:-</b></p> <p>(i) The prices under a rate contract will be subject to price fall clause. The price charged for the supply of goods / items under the contract by the successful Bidder will in no event exceed the lowest price at which the successful Bidder sells the supply of goods / items of identical description to any other person in the state during the period of contract.</p> <p>(ii) If at any time during the said period, the contractor reduces the sale price of such supply of goods / items sells such supply of goods / items to any other person at a price lower than the price chargeable under the contract he will forthwith notify such reduction of sales to the University of Kota and the price payable under the contract for the supply of goods / items supplied after the date of coming into force of such reduction of sale will stand correspondingly reduced. The successful Bidder will furnish certificate in the manner required by the University of Kota to the effect that the provision of this clause has been duly complied with respect to supplies made or billed for up to the date of certification.</p> <p>(iii) If at any time during the period of contract, the price of bided items is reduced or brought down by any law or Act of the Central or State Government or by the Bidder himself, the Bidder will be bound to inform ordering authority immediately about it. Ordering authority empowered to unilaterally effect such reduction as is necessary in rates in case the Bidder</p>

	fails to notify or fails to agree for such reduction of rates.
36.	Bidders must make their own arrangements to obtain import licence, if necessary.
37.	If a bidder imposes conditions, which is in addition to or in conflict with the conditions mentioned herein, his bid is liable to summary rejection. In any case none of such conditions will be deemed to have been accepted unless specifically mentioned in the letter of acceptance of bid issued by the Procurement Entity.
38.	The Procurement Entity reserves the right to accept any bid not necessarily the lowest, reject any bid without assigning any reasons and accept bid for all or anyone or more of the articles for which bidder has been given or distribute items of stores to more than one firm/supplier.
39.	The bidder shall furnish the following documents at the time of execution of agreement:- i. Attested copy of partnership deed in case of partnership firms. ii. Registration number and year registration in case partnership firm is registered with Registrar of Firms. iii. Address of residence and office, telephone numbers in case of sole proprietorship. iv. Registration issued by Registrar of Companies in case of company.
40.	If any dispute, arise out of the contract with regard to the interpretation meaning and breach of the terms of the contract, the matter shall be referred to by the parties to the Head of the University (HVC) who will appoint his senior most officer as the sole Arbitrator of the dispute who will not be related to this contract and whose decision shall be final.
41.	All legal proceeding, if necessary arise to institute may by any of the parties (University of Kota, Kota or Contractor) shall have to be lodged in courts situated in Kota and not elsewhere.
42.	All other/remaining relevant general terms & conditions shall be applicable as laid down in GF&R Rajasthan Transparency in Public Procurement Act 2012 and RTPP Rules 2013 as amended from time to time, and other relevant rules applicable in University of Kota, Kota.

Note:-I have read the above terms and conditions of contract carefully and I shall be abide by the Same in the event of Successful bidder.

Date:

Place:

Signature & Seal of the Bidder

## **Annexure A: Compliance with the code of Integrity and No Conflict of Interest.**

Any person participating in a procurement process shall-

- (a) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- (b) Not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) Not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- (d) Not misuse any information shared between the procuring Entity and the Bidders with an intent to gain unfair advantage in the procurement process;
- (e) Not indulge in any correction including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) Not obstruct any investigation or audit of a procurement process;
- (g) Disclose conflict of interest, if any; and
- (h) Disclose any previous transgressions with any Entity in India or any other country during the last three years or any debarment by any other procuring entity.

### **Conflict of Interest:-**

The Bidder participating in a bidding process must not have a Conflict of Interest.

A Conflict of Interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

- i. A Bidder may be considered to be in Conflict of interest with one or more parties in a bidding process if, including but not limited to;
- a. Have controlling partners/shareholders in common; or
- b. Receive or have received any direct or indirect subsidy from any of them; or
- c. Have the same legal representative for purpose of the Bid; or
- d. Have the relationship with each other, directly or through common third parties, that puts them in a position to have access have to information about or influence on the bid of another Bidder, or influence the decision of the procuring Entity regarding the bidding process; or
- e. The bidder participates in more than one bid in a bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the Bidder is involved. However this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one Bid; or
- f. The Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specification of the Goods, Works or Service that are the subject of the Bid; or
- g. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the procuring Entity as engineer-in-charge/consultant for the contract.

Date:

Place:

Signature of bidder

Name:

Designation:

Address:

**Annexure B: Declaration by the Bidder regarding Qualifications**  
**Declaration by the Bidder**

In relation to my/our Bid submitted to .....for procurement of .....in response to their Notice Inviting Bids No.....dated .....I/We hereby declare under Section 7 of Rajasthan Transparency in Public Procurement Act, 2012, that:

1. I/We possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. I/We have fulfilled my/our obligation to pay such of the taxes payable to the union and the State Government or any local authority as specification in the Bidding Document;
3. I/We have are not insolvent in receivership, bankrupt or being wound up, not have my/our affairs administrated by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceeding for any of the foregoing reasons;
4. I/We do not have, and our directors and officers not have, been convicted of any criminal offence related to my/our professional conduct or the making of false statement or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceeding;
5. I/We do not have a conflict of interest as specification in the Act, Rules and the bidding Document, which material affects fair competition;

Date:

Place:

Signature of bidder

Name:

Designation:

Address:

## **Annexure C: Grievance Redressal during Procurement Process**

The designation and the address of the first Appellate Authority is **Hon'ble Vice-Chancellor, University of Kota, Kota.**

The designation and the address of second Appellate Authority is **ACS (Higher Education), Government of Rajasthan.**

### **Filing an appeal**

If any bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the act or the rules or the Guidelines issued there under, he may file an appeal to First Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

Providing that after the declaration of a Bidder as successful the appeal may be filled only by a Bidder who has participated in procurement proceeding:

Providing further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filled only by a Bidder whose Technical Bid is found to be acceptable.

- (1) The officer to whom an appeal is filed under Para (1) shall deal with the appeal as expeditiously as possible and shall endeavor to dispose it of within thirty days from the date of the appeal.
- (2) If the officer designated under Para (1) fails to dispose of the appeal filed within the period specified in Para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidder Document in this behalf within fifteen days from the expiry of the period specified in Para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

### **(3) Appeal not to lie in certain cases**

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely:-

- (a) Determination of need of procurement;
- (b) Provisions limiting participation of Bidders in the Bid process;
- (c) The decision of whether or not to enter into negotiations;
- (d) Cancellation of a procurement process;
- (e) Applicability of the provisions of confidentiality.

### **(4) Form of Appeal**

- (a) An appeal under Para (1) or (3) above shall be in the annexed Form along with as many copies as there are respondents in the appeal.
- (b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- (c) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorized representative.

### **(5) Fee for Filling Appeal**

- (a) Fee for first appeal shall be two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non- refundable.
- (b) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

### **(6) Procedure for disposal of appeal**

- (a) The First Appellate Authority or Second Appellate Authority, as the case may be upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
- (b) On the date of fix hearing, the First Appellate Authority or Second Appellate Authority, as the case may be shall,-
  - (i) Hear all the parties to appeal present before him; and
  - (ii) Peruse or inspect documents, relevant records or copies thereof relating to the matter.

(c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.

(d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.

Date:

Place:

Signature of bidder

Name:

Designation:

Address:

**FORM No. 1**  
**[See rule 83]**

**Memorandum of Appeal under the Rajasthan Transparency in Public Procurement Act, 2012**  
*(To be submitted by the bidder on his Letter Head)*

Appeal No .....of .....

Before the ..... (First / Second Appellate Authority)

1. Particulars of appellant:
  - (i) Name of the appellant:
  - (ii) Official address, if any:
  - (iii) Residential address:
2. Name and address of the respondent(s):
  - (i)
  - (ii)
  - (iii)
3. Number and date of the order appealed against and name and designation of the officer / authority who passed the order (enclose copy), or a statement of a decision, action or omission of the procuring entity in contravention to the provisions of the Act by which the appellant is aggrieved:
4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative:
5. Number of affidavits and documents enclosed with the appeal:
6. Grounds of appeal:

.....  
.....  
.....

(Supported by an affidavit)

7. Prayer:

.....  
.....  
.....

Place .....

Date .....

**Appellant's Signature**

## **Annexure D: Additional Conditions of Contract**

### **1. Correction of arithmetical errors**

Provided that a Financial Bid is substantially responsive, that Procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis:

- i. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quality, the unit price shall prevail and the total price shall be corrected, unless in the opinion in the Procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- ii. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- iii. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Deceleration shall be executed.

### **2. Procuring Entity's Right to very Quantities.**

- (i) At the time of award of contract, the quantity of Goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase or decrease shall not exceed twenty percent, of the quantity specified in the Bidding Document. It shall be without any change in the unit price or other terms & conditions of the Bid and the conditions of contract.
- (ii) If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.
- (iii) In case of procurement of Goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 25% of the value of Goods of the original contract and shall be within one month from the date of expiry of last supply. If the Supplier fails to do so, the Procurement Entity shall be free to arrange for the balance supply by limited Bidding or otherwise and the extra cost incurred shall be recovered from the Supplier.

### **3. Dividing quantities among one than more Bidder at the time of award (In case of procurement of Goods)**

As a general rule all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

Date:

Signature of bidder

Place:

Name:

Designation:

Address:

# UNIVERSITY OF KOTA

**M.B.S Marg, Kabir Circle, Kota**  
**(BOQ) (To be submitted on-line)**

1. Name of Bidder:-
2. NIB No :- 29/2025-26
3. Work Description :- Supply and Installation of Gel Documentation and other equipment in Biotechnology

S. N.	Instruments/ Products	Specification	Qty	GST (In Rs.)	Unit Rate (Rs.)	Basic Rate Per unit in figures to be entered by the Bidder in Rs. P	GST in Figures to be entered by the Bidder (if applicable in percentage)	Total Amount excluding taxes in Rs. P	Total Amount Inclusive Taxes
1.	<b>Gel Documentation with computer &amp; Electrophoresis system power supply</b>	<p><b>To visualize, capture and analyze images of gels containing separated DNA, RNA or protein samples after gel electrophoresis.</b></p> <p><b>Technical Specifications for</b> Gel documentation system for imaging DNA, RNA, colony dish and colorimetric blots with scientific grade <b>CX4 camera</b> is must with 2 megapixels resolution extendable up to <b>7.6 megapixels</b></p> <ul style="list-style-type: none"> <li>• System should have motorized zoom lens with feedback</li> <li>• System should have dark room technology and whitelight led panels with automatic intensity adjustment</li> <li>• System should have transilluminator of 20 x 20 cm to produce publication quality gel image</li> <li>• System should be capable of producing <b>16-bit – 65,536 grey levels</b></li> <li>• System should have <b>USB 3.0 interface</b> for faster image transfer</li> <li>• System should have fixed position filter wheel with F-590 emission filter for ethidium bromide, Gel Red, Gel Green, Lumitein, SYPRO Ruby, etc.</li> <li>• System should have future upgrade option for colorimetric gel imaging</li> <li>• System should have future upgrade option for blue light conversion plate for blue light DNA/RNA/ Protein fluorescence</li> <li>• System should have Image capturing with <b>auto-lighting, auto-focus and auto-exposure</b></li> <li>• System should have software for image enhancement; image analysis including molecular weight calculation, band quantification and distance calculation</li> <li>• System should have <b>multi-user licensed free software</b></li> <li>• System should have software with <b>3D dynamic scan and Apps studio, Live demo</b></li> <li>• System should include <b>PC to operate and analyze data</b></li> <li>• Desktop computer (Branded) Should supply with Gel Doc System, Intel Core i3 with Intel</li> </ul>	01						

		<p>chipset with 8 Gb &amp; 256 Gb with 1600x900/ 16 million color mode (24-bit). Video card with a refresh rate above 60Hz, Microsoft Windows 10 (64-bit only), At least two USB-A 3.2 ports available in the computer rear side, Please make sure to enable the “XHCI” BIOS option to fully activate the, USB-3 ports capabilities.</p> <ul style="list-style-type: none"> <li>• Horizontal Electrophoresis system should supply with system 10 x 15 cm with combs and power supply.</li> <li>• Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</li> </ul>					
2	<b>CO2 incubator</b>	<p><b>To culture cells and tissue by providing a controlled environment with optimal temperature, humidity and Co<sub>2</sub> levels.</b></p> <p>Steam jacket with internal capacity: 60 L (Approx) Minimum of 4 adjustable shelves with separate air tight doors should be available. Interior chamber: Stainless steel for easy cleaning and decontamination Stable temperature control, excellent uniformity, and rapid recovery with no overshoot. Fan less convection circulation to provide chamber homogeneity, eliminate vibration &amp; reduce sample evaporation. HEPA Filters (99.98% efficient) at the inlet to minimize contamination. Timer: 1 min. to 100 hours; Temperature range: +5° C to 80°C; Temp Accuracy +/-0.50 C of required temp, with inbuilt Temperature Sensor. Audiovisual Alarm to Indicate when temperature deviates more than 0.5°C from set point, and when program or time has finished. Alarm may be muted. There should be a Membrane Keypad with LCD/LED to set and display operating parameters, current status, running time and alarm conditions for time and temperature. Internal glass door for the observation; On castors for easy movements CO<sub>2</sub> Range- 0-20%; CO<sub>2</sub> Accuracy: +/- 0.5%; CO<sub>2</sub> Inlet pressure 1.5 bars (app) and fast recovery after opening door. Compensation: Temperature compensation @ 0.5 deg C / min and CO<sub>2</sub> Compensation up to 5% +/- 0.5% in 5 minutes. High Humidity Chamber to achieve 95% RH, minimizing sample evaporation. Independent door heater to eliminate condensation on inner glass surfaces should be available. 72-Hour Data Storage for CO<sub>2</sub> concentration, temperature, alarms and door openings should be automatically recorded for on-screen displays. Data output for data acquisition and printing. Interior lighting facility, insulated door fitted with heavy hinges handles locking, mechanical door lock. Low water alarm/ indication CO<sub>2</sub> cylinders 2 nos. (capacity at least 30 kg) with regular (at least one) compatible to machine part Environmental factors: The unit shall be capable of operating continuously in ambient temperature of 10 -450 C and relative humidity of 15-90%. Power Supply:- Power input to be 220-240VAC, 50Hz fitted with plug, compatible with local electrical socket; Resettable over current breaker shall be fitted for protection Suitable voltage corrector/stabilizer Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system. Standards and Safety:- Should be compliant to ISO 13485/ISO 9001 quality systems or equivalent Should be compliant with IEC 61010-1: covering safety requirements for electrical equipment for measurement control and laboratory use. Should</p>	01				

		<p>be US FDA or European CE or equivalent certified. Attach original manufacturer's product catalogue and specification sheet. Photocopy/ computer print will not be accepted. All technical data to be supported with original product data sheet. Comprehensive onsite training for lab staff and support services till familiarity with the system. Documentation: Certificate of calibration and inspection from factory. List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>					
3	Autoclave	<p><b>Sterilize instrument and equipment, eliminate pathogens and cure materials.</b></p> <p>Autoclave Vertical, Double walled made of thick high-grade stainless-steel sheet of SS-304 grade or better., Capacity (Litres): min. 50 Ltr, Operating range: Temp.:100-135°C (sterilizing), 50-100°C (warming) &amp; 50-100 °C (heating); Pressure: Up to 25-30psi with dial pressure gauge. Working Temperature: 121°C at 15 to 20 psi pressure. Inner&amp; Outer chamber, Supply complete with stainless steel basket, chord and plug. The lid made of stainless-steel sheet, Unit fitted with Double safety radial locking system with paddle lifting device, made of MS chrome plated and provided with pressure gauge (02.1kgf/cm<sup>2</sup>), safety device, safety valve, eject valve and neoprene/silicon gasket. Steam, Vacuum Release and Water Draining by Valve,LED display for time and temperature. Automatic Pressure Control Switch - To cut-off the current from the heating elements, when the desired/ set pressure value level is attained inside the chamber and restarts the mechanism once the pressure inside the chamber falls from the desired level. Automatic Water Cut-off Device – To protect the heaters from running dry and to ensure that the machine is automatically switched off in case the desired water level falls below the prescribed level (cut off with audible alarm),water inlet and outlet valves, water level indicator. Timer with Alarm System - To regulate the sterilization time of the media to be sterilized with a buzzer. Steel stand for keeping autoclave drum on it. Electrically heated by immersion type heaters bearing ISI mark. Power Supply: 220-230V, 50Hz. One spare rubber gasket and electric element must be provided for autoclave. The apparatus should conform to national or international standards with latest amendments covering Markings, Safety requirements with recommendations of safe operations from any reputed firm with ISO 9001:2000 &amp; CE Certification.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01				
4	Laminar Air Flow	<p><b>Used to create a sterile particle free environment for sensitive task, such as in laboratories for plant tissue culture and preparing media plants.</b></p> <p>Specification Sheet – Horizontal Laminar Air-Flow Cabinet</p> <ul style="list-style-type: none"> <li>- Air-flow direction: Horizontal (essential), Air-flow velocity: 0.4 – 0.45 m/s (essential), Minimum internal dimensions: 4 ft × 2 ft × 2 ft (essential), UMDNS designation: Biological Safety, Class II – Code 20 - 653 (essential), Safety certifications: CE (European), Quality management standards: ISO 9001 &amp; ISO 13485, Air cleanliness class: Class 100, Noise level: ≤ 65 dB (±5 dB), Front access: Sliding sash door</li> </ul>	02				

		(motor-operated), Display: LCD panel with LED back-lighting, Work-bench material: Stainless steel 304 grade, Side panels: Acrylic, 2 mm thick, Doors/frames: Hermetically sealed, Filtration: DOP-tested HEPA filter (required), Washable pre-filter, 10 µm (required), UV hour meter: Required, Warranty: Minimum 3 years (essential); bidders may offer up to 5 years, Documentation: Copies of all certifications and test reports to be supplied on demand; instruction manual and original brochure to be provided, Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.					
5.	<b>Conductivity meter</b>	<b>To measure the electrical conductivity of a liquid to assess its purity, ionic concentration and total dissolved solids (TDS).</b>  Conductivity Range 6 auto-selected from 0 to 19.99S* Resolution 0.01µS -0.01S Accuracy ±0.5% ±2 digits Automatic std. recognition 10µS, 84µS, 1413µS, 12.88mS Cell constant 0.010 to 19.999 TDS 6 auto selected ranges Ranges 0-1999g/l* Resolution 0.01mg/l -1g/l Accuracy ±0.5% ±2 digits EC ratio 0.50 to 0.80 Resistivity Range 0-20Mohm Resolution 0.01Mohm Accuracy ±0.5% ±2 digits Salinity Range 0-99.9g/l Resolution 0.1g/l Accuracy 0-35 ±1g/l, 35-99.9 ±3g/l Temperature Range -10 to 105°C Resolution 0.1°C Accuracy ±0.5°C ATC and manual 0 to 100°C Temperature coefficient 0.00% to 4.00%/°C Reference temperature 18, 20 or 25°C GLP Calibration reminder interval, alarm outputs and security code protected data Outputs Analogue, RS232 and IrDA interface Connector 7-pin DIN Power 9V AC ±10% @ 50/60Hz Size (l x w x d) 210 x 250 x 55mm Weight 850g *With k=10 cell Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.	01				
6.	<b>Hot air oven</b>	<b>Sterilizing heat resistant items like glassware, metal instruments and powders by killing microorganisms through oxidation and desiccation and performing thermal testing on materials like plastics and rubber.</b>  External/internal body and other parts like tray etc should be made of high quality material like SS316 or better. Proper facility for ventilation and air circulation.Temperature Range: 50°C to 300°C or better . Temp. Set and display sensitivity: Temp. Variation: ± 1 °C. Material: Stainless Steel or better . No. of Shelves: 3 or more , Chamber Size: 18"X18"X18" or better (Should be fitted on 2.5 feet bench). Accuracy: ±2°C or better . Microprocessor control system and digital displays, Digital sample temperature display; control panel option Provision for door safety locking system. Accessory: Electric codes (1 Pc), Gloves (1 pair), and Tong (2 Pc), removable stainless steel racks (2 pc extra). Power Supply: 100-240V,50/60 Hz.Voltage (V)-- 220volt, Frequency (Hz) Series--50 Hz Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.	02				
7.	<b>Phase Contrast attachments and Dark</b>	<b>To increase contrast in transparent, unstained specimens by converting phase shifts into amplitude differences.</b>	01				

	<b>field condenser</b>	<p>Consist of Phase Contrast Turret Condenser, Centering Telescope CT Phase Contrast Objectives 10x,20x, 40x. Auxiliary Clamping Wrench. Accessories Case</p> <p>Specifications of the Phase Contrast Turret Condenser: Achromatic aplanatic condenser-, N.A. 1.40 .with built -in light annuli for 10x,20x, 40x and 100x Objectives, turret type, centerable. Built-in aperture iris diaphragm with aperture scale. Built-in dark field aperture stop. N.A. 0.9 - 1.4.</p> <p><u>Darkfield Condenser NA 0.7-0.9 for Biological Compound Microscopes</u></p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>					
8.	<b>Digital microscope with camera</b>	<p><b>To magnify small objects, display the live, high resolution image on a screen and allow for instant capture, saving and sharing images or videos for analysis and documentation.</b></p> <p>Optical System: CFI Infinity Optical System, Anti-mould design used in Eyepieces, Objective and Binocular/Trinocular Eyepiece tube. Illumination: High luminescent white LED illuminator (Eco-illumination) Compliant multi-voltage (100 V-240 V), Eyepieces (F.O.V.): CFI E 10x (18 mm).</p> <p>Focusing :Coaxial coarse/fine focusing, Cross roller guide, Focusing stroke: 22mm, Coarse: 37.7 mm/rotation, Fine: 0.2 mm/rotation, Coarse motion torque adjustable.</p> <p>Eyepiece Tube : Wide Field Eyepiece WF10×/ 18 with diopter adjustment, Eyepiece/Port: 100/0, 0/100, 360° rotatable, Siedentopf-type with inclination angle 30 degree with user provision for change eye point height.</p> <p>Nosepiece: Quadruple nosepiece (within main body), Revolving mechanism with multiple ball bearings, Elastic nosepiece grip-ring.</p> <p>Stages: Double Plate Rectangular mechanical stage (within main body), with specimen holder, with Vernier calibrations, Objectives Finite Semi-Plan Achromatic Objective 4×, 10×, 40×, 100×, Spring loaded.</p> <p>Condensers : Abbe Condenser N.A. 1.25, Aperture diaphragm with position guide marking for respective objective.</p> <p>Observation Methods: Brightfield, Dark field, Phase contrast (provision for upgradation).</p> <p>Power Consumption (max.) Normal value: 3 W (LED model), Supplied with Dust cover, immersion oil and user manual. New machining facility and advanced alignment technology.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01				
9	<b>Digital Bacteriological incubator</b>	<p><b>To provide a controlled, stable and optimal environment for growing and maintaining microbial cultures such as bacteria.</b></p> <p>Capacity: 125-150l. Double walled construction with complete inner chamber made of highly polished stainless steel. Outer chamber should be of steel sheet finished with powder coated paint. Insulation to maintain desired temperature. Inner chamber should be fabricated with ribs for adjusting No of shelves-2-3. Shelves should be made of polished stainless steel sheet as per chamber. Doors to be insulated and fitted with heavy hinges and should have double glass window. Temperature should be thermostatically controlled with range from 20-90° C. Air ventilators to be provided on both side. The equipment should be provided with control panel having a thermostat control</p>	01				

		<p>knob, on-off switch, pilot lamp and timer, digital indicator. Should be supplied with power card and plug suitable to operate on 220 V, single phase, 50 Hz, AC supply.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>					
10	<b>BOD Incubator</b>	<p><b>To provide a controlled, consistent low temperature environment for incubating microbial cultures and performing specific biological and environmental tests.</b></p> <p>Temperatures ranging from +5°C to +60°C with excellent stability. Single-setpoint microprocessor control for temperature setting. Digital display. Capacity: 500 liters. Temperature: Stability <math>\pm 0.3^{\circ}\text{C}</math>, Uniformity @ <math>20^{\circ}\text{C} \pm 0.8^{\circ}\text{C}</math> &amp; Uniformity @ <math>37^{\circ}\text{C} \pm 0.8 / 1.0^{\circ}\text{C}</math>. Access port and RS232 for temperature monitoring. Timer function for automatic start or shut down of unit (0 to 99:59 hours: minutes). CFC free refrigerant. Over and under temperature alarm. Over temperature cut-out and fan motor overheating protection for additional safety. Door alarm: Alerts operator of open door after ~10 seconds (visual and audible) to prevent samples from being exposed to Outside Environment temperature. Glass window in door for undisturbed inspection of samples. and No. of shelves :2-4. Interior lighting facility, insulated door fitted with heavy hinges handles locking, mechanical door lock. Machine should be Energy Efficient. Compatible servo stabilizer for the Machine.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01				
11	<b>Analytical balance</b>	<p><b>Provide highly accurate and sensitive measurement for small quantities of solids, liquids or powders.</b></p> <p>Capacity--220g ,Accuracy--0.0001g ,Calibration-- auto external ,Pan Size--90mm ,Readability--0.0001g ,Weighing Capacity--220g-1kg ,Linearity--+- 0.0002g , +/- 0.2mg</p> <p>Power Source—Electric ,Voltage--110 to 230V ,Repeatability--+- 0.01mg ,Sensor-- EMFC, Magnet, monolg single</p> <p>Material-- Stainless Steel ,Port-- RS232, USB ,Automation Grade—Automatic ,Color-- Off White ,Stabilization Time--2 to 4 sec ,Response Time--4 to 6 sec.</p> <p>Frequency--50 to 60Hz ,Weight--4kg ,Display-- Backlit LCD Display ,Standard Features :High contrast, Large Backlit LCD Display for easy viewing with (Advance Eye protection) ,Based on EMFC Brilliant MONOLOG single block technology,Strong anti-shaking software for the accurate result in normal vibration surface,Standard RS 232 C interface USB port, easy to connect with PC / Printer ,Single touch key Fully Auto External / internal calibration,Overloadprotection,design.,Mass unit conversion by toggling,Conforms GLP / GMP and ISO 9001 Standard.,20 standard global weighing units ,User selectable stability and filter level.Easy operating system.Below weighing system provided.</p> <p>Auto Density determination facility,GSM weighing facility</p> <p>High-grade chemical resistance body.</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01				

12	Digital pH meter	<b>To measure the acidity or alkanity of a solution by determining its hydrogen ion concentration.</b>  Table Top Digital pH Meter.pH Range: 0 to 14 Resolution: 0.01 Accuracy: $\pm 0.01$ Repeatability: $\pm 0.01$ Stability: $\pm 0.05$ in 8 hrs. Emf in mV Range: $\pm 1999$ . Upgradable for ORP measurement: Up to five point calibration with auto buffer recognition . Non-volatile memory holds upto 100 data points. Splash proof key pad.LCD display. pH Calibration points: up to 5 Buffer set: 1.68, 4.01, 7.00, 10.01 and 12.45 . Temperature Range: 0 –100 °C, Resolution: 0.1 °C , Accuracy: $\pm 0.3$ °C. ORP Range: $\pm 2000$ mV , Rel. mV range: $\pm 2000$ mV , Resolution: 0.1 mv ( $\pm 199.9$ mV) / 1 mV (beyond) ,Accuracy: $\pm 0.2$ mV ( $\pm 199.9$ mV) / $\pm 2$ mV (beyond).Two channel for pH, mV and temperature measurements. Should have RS.232C output and supply data connector cable, including cover and stand, pH electrode, temperature probe stand reference refill electrolyte calibration solutions. Additional pH electrode must be included. Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.	02					
13	Binocular Microscope	<b>To allow comfortable, high resolution viewing and analysis of small objects with the added benefits of digital imaging such as capturing images recordings videos and performing measurements.</b>  Standard Complete set with Binocular Head, in built 6V-20W halogen light illuminator, with Anti Fungus Achromatic objectives 4X, 10X, 40X and 100X oil immersion, paired eyepieces wide field 10X .Anti - Fungus Optics, interchangeability of Objectives, the abbe condenser & the light relay system fitted with high performance aspheric lenses for bright & crisp image, window in arm & the Ergonomic design, illumination system through SMPS circuit etc. Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.	05					
14	Incubator Shaker	<b>Provide a controlled temperature environment while simultaneously shaking or agitating samples.</b>  Speed Range should be 25 to 400 rpm +/-1 rpm or wider. Temperature Range: At least 4°C below ambient to 40°C or more. Controller: Programmable for speed up/down and temperature up/down on a timed basis. Programmable shaking time: 1min to 480min or more. Universal tray with clamps should have capacity to hold for variable sizes (50ml to 5liter or more). The instruments should have the capacity to hold minimum 16-18 numbers of 250 ml flasks . System should have UV light for decontamination . Should have stackable incubator shakers i.e. one unit can be stacked on other unit for space saving. Alarms System should have audio visual alarms if units operate beyond set temperature and speed . Clamps to be supplied: 50ml-10nos., 125ml-6nos. 250 ml-6nos, 500ml-3nos. .The system should be suited to Indian System of Electrical inputs (220V/50Hz) .All accessories needed to make the equipment functional, must be supplied Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.	01					
15	Laboratory Freeze 2-8 °C	<b>Preserves perishable materials like regents, vaccines and biological samples that must be kept cool not frozen.</b> Should have 500 Lt capacity, and temperature	01					

		<p>range 2-8 °C</p> <p>Compressor warranty- 5 yrs., Exterior- Spray cold rolled steel plate, and a glass door, Inner Material- Stainless steel, and have LED light Should have auto-defrosting system, should work in 32 degree ambient. Microprocessor controller for precise temperature, with digital display</p> <p>The well-developed audible &amp; visual alarm functions: High/Low Temperature, Sensor Error, Low Battery, Power Failure, Remote Alarm contact, USB data log failure, condenser overheating &amp; Main board communication error, USB data logger for temperature recording, have door ajar.</p> <p>Other alarm- high ambient temperature, condenser overheating, built-in USB data-logger failurePassword protection controller/ key lock CFC &amp; HFC free and R290 refrigerant, should have door heating, should have RS485 port, temperature uniformity is 2, and cooling time 60 mins. Should have with stabilizer. Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>						
16	<b>Nano drop Spectrophotometer</b>	<p><b>To quickly measure the concentration and purity of nucleic acids (DNA/RNA) and proteins from very small sample volumes (1–2 µL) without dilution.</b></p> <p>Specifications for Nanodrop: Sample Volume – 0.5µL. Sample Number - 1 Path Length: 1mm (auto ranging to 0.05mm) Light Source: Xenon flash lamp Detector Type - 2048 – element linear , Silicon CCD array Wavelength Range – 190 – 840nm Wavelength Accuracy 1 nm Spectral Resolution &lt; 1.8nm (FWHM at HG 253.7nm) Absorbance Precision: 0.002 (1mm path) Absorbance Accuracy: 2% (at 0.76 absorbance at 257 nm) Absorbance Range : 0.02-300 (10mm equivalent) Detection limit: 2ng/µL (ds DNA) Max.Concentration : 15,000 ng/µL (dsDNA) Measurement Time: &lt;5 seconds Footprint : 14 x 20cm Sample Pedestal – Material of Construction – 303 stainless steel and quartz fiber Operating Voltage – 12 vdc Operating Power consumption 12 – 18 W (max 30W) Standby Power Consumption – 5W Software Compatibility – Windows® XP and Vista™ (32 bit). Increased dynamic range for dilute samples (e.g. to 0.4 ng/uL for sDNA) Support for kinetics experiments OD measurements for bacterial cultures Built-in stirring capability Temperature control at 37°C Pre-programmed methods for: ssDNA, dsDNA, RNA, oligoDNA, oligoRNA, microarray (fluorescently labeled nucleic acid), Protein (A280), Protein A205, Protein colorimetric (Bradford, BCA, Lowry and Pierce™ 660), Proteins &amp; Labels (labeled proteins), OD600, Kinetics, Custom Methods, UV-Vis Wireless capabilities should include: Bluetooth for connecting a keyboard and mouse Wi-Fi network connection for exporting and archiving data to a server. The spectrophotometer should be supplied with branded compatible computer system With Licensed Windows Professional Software</p> <p>Calibration of the machine will be done by the bidder at least once in every six months during the warranty period of five years from the date of installation.</p>	01					

**Signature of the Bidder with seal**