



GOVERNEMENT COLLEGE OF PHARMACY

Kathora Naka, AMRAVATI 444 604

(0721) 2531690 (O)
www.gcopamravati.ac.in

Fax. No. (0721) 2531242 2531827
e-mail: gcopamt@gmail.com

Extension for Quotation

No. GCOPA/Store/Projects-Equip/2023-24/ 2074

Date: 12.10.2023

Subject: Quotation for supply of Lab Equipments of Projects.

Ref. No.: - No. GCOPA/Store/Projects-Equip/2023-24/811, Dt.09.08.23

Dear Sir,

I have to request you to kindly quote your lowest reasonable rates for the following item and send the quotation in the sealed cover, so as to reach the undersigned on or before Dt. 23.10.2023 Date of Opening Dt.25.10.2023. (Due to poor response for following item's)

Sr. No	Specifications	Qty. Required
	MODROB Projects :	
1.	<u>Flash Chromatography :-</u> To perform all type of flash chromatography purifications under normal and reversed phase conditions. With facility to change parameters during the run. With real time method control. With all necessary software for running and calibration of the equipment. Safety regulatory requirements such as vapor sensor and over pressure Sensor and automatic shut down facility. With following general specifications: Solvent Delivery: Two maintenance free valve less metering pumps; Certification: CE. Programmable gradients: four solvent inlets with high pressure binary gradient of linear, step or isocratic mode. Flow rate: Flow rate of 300 ml/min. Rate Pressure: Pumping system with maximum pressure capacity of 300 psi (20 bar). Column sizes: 4g to 330 g, Minimum 10 nos. Reusable/ Refillable 12gm, 40gm, 120gm, High performance Silica Gel, C18, Alumina, Microns, Cyno, Diol, SAX & SCX 40-63 Microns. A Universal sample load cartridges. Minimum 10 nos. Single use, disposable column of various size. On-line UV detection: Integrated PDA variable wavelength UV -visible detector with automatic collection of fractions at all available wavelengths from 200 to 400 nm or more. Sample Injection: Injection valve for solid & liquid sample injection with automatic self cleaning at the end of the run. Fraction collection: Automated fraction collection with min 150 tube capacity and unlimited rack changes. Automatic sensing of test tube size & fraction volume. Solvent level sensors in all solvent inlet & waste bottles for solvent management. Tube size and rack: racks for 16 & 25 mm tubes, 480 ml bottles and other containers. Power options: 230 VAC / 50 Hz With software for peak Tracking. Automatic sensing of column size, media & column history. And one adjustable solid load cartridge and one empty sample load cartridge. With necessary additional spars. Controller: Touch screen control software with real time method editing,	01 No.



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	column size & media sensing, fraction collector rack sensing & method scale up feature. Supplied with PC windows operating system, 15.6" screen and 500GB hard disk. Built in 2 COM ports, HDMI & VGA port allows versatile applications with necessary additional features. Safety features like over pressure sensor, vapor sensor & grounded solvent path.	
2.	<u>Sprey Dryer :</u> Evaporation rate of water: Approx.1500ml/hrs, <ul style="list-style-type: none">• Air inlet temp. range: 40 °C to 250 °C ,• Drying air throughput: Variable from 30 to 70 m3/hrs,• Heater capacity: Approx.3kw,• Spray system: 2 fluid nozzle with 0.5 mm jet with Deb locking Device & option of large diameter,• Sample feed: Peristaltic pump with flow rate 0-1200 ml/hrs,• Spray/Hot air flow: Downward co-current• Inert loop for Solvent Recovery Including all additional / optional accessories.	01 No.
3.	<u>Cone and Plate Viscometer :</u> Torque resolution:0.1-100 nNm, <ul style="list-style-type: none">• Position resolution:10 -50 nrad,• Torque Range : 0.05µNm - 250 mNm,• Angular velocity range: 10-500 nrad,• Normal force range : 0.001N -50N,• Speed Range: 0.01-250 RPM,• Temperature range: -150°C to 500°C,• Tool master measuring system & software Including all additional / optional accessories.	01 No.
4.	<u>Student Physiograph :</u> <ul style="list-style-type: none">• Main console.• 11 chart speeds as 0.1 ,0.2, 0.5, 1, 2, 5, 10, 20, 25, 30, 50 mm / Sec. Speed selection is easy and instantaneous. Channel width is 70 mm. Ink writing pen is 120 mm in length to minimize arc distortion. The main amplifier is fitted in the console having Switch selectable sensitivity• range from 50 microvolts per cm to 100 millivolts per cm in eleven steps as 50, 100, 200, 500, µv / cm and 1,• 2, 5, 10, 20, 50, 100 mv / cm.• Couplers: • Bio-potential with 3 pin junction.• box, EEG, EMG electrodes and paste.• EKG coupler with 5 pin junction box, Limb & Chest Electrodes and jelly.• Straingage Coupler for measurement of pressure and volume changes of cannulated animals. Pulse Respiration Coupler with respiration transducer.• Temperature coupler with temperature transducer.• Isotonic coupler for isolated tissue measurements. Including all additional / optional accessories.	02 Nos.
5.	<u>Non – Invasive BP Measurement System :</u> SIMULTANEOUS measurement on TWO RATS: Non Invasive Blood Pressure Analysis System to operate on 230Volt 50Hz : 1.Two Specimen Platforms exclusively designed to accommodate rats with highly sensitive LED/Photodiode pulse sensing technology, amplifier and	01 No.



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	<p>brass tail-cuff. 2. One Master Control Unit with power supply, control solenoids, air pump and vacuum fluorescent display. Future software upgradable without opening the equipment to replace program storage components. 3. Non breakable Specimen Holders: 4 Numbers of autoclavable rat specimen holders up to 550grams made of light weight aluminum and epoxy coated. 4.Power cable , 5.Communication cable, 6.Accessory kit 7.Instruction manual , 8. Dedicated Software for NIBP. The system is warranted against defects in material and workmanship for one year from date of installation. Free upgrades on software</p>	
RGSTC Project :		
11.	<p><u>Texture Analyser :</u></p> <ul style="list-style-type: none"> • Load range : 0-4500gm; • Load resolution: 0.5 gm upto 4500 gm; • Load accuracy: better then $\pm 0.5\%$ of full scale; • Load repeatability: better than 0.5 % of full scale; • Position range :0-100mm; • Position accuracy: 0.1mm; • Position setting resolution : 0.01mm; • Position measuring resolution : 0.1mm\pm; • Test speed range : 0.01-0.1mm/s in; • Increment of 0.01 mm/s; • Test speed accuracy: better than 0.1% of full scale; • Speed accuracy: better than $\pm 0.1\%$ of set point; • Test modes: single , hold, repeat/tpa, cycle, compression, tension; • Data output options: USB port, rs232 compatible serial port. • Data acquisition: 26 data sets per second; • Protection: load cell overload protected by electronic stop in both direction and by mechanical stop in compression. • Approvals: CE marked. • Security: Software password different levels of user; • Protection is required for excessive dust. Operation temperature: 5oc to 35oc; • power supply: 230 v ac 50hz; power code.230 v ac 50hz with includes operating. • texture analyser software with fixture base table attachment. Accessory : muco adhesion test accessory; film support fixture for penetration test and spread test fixture. 	01 No.
DST – SYST Project :		
12.	<p><u>Multi Scan Micro Plate Reader (Multi Mode):</u></p> <ul style="list-style-type: none"> • Detection modes: Absorbance, Fluorescence intensity and Luminescence; • Read methods: End-point, kinetic, area scanning, multipoint and kinetic spectra; • Light Source: Absorbance: Xenon flash lamp; Fluorescence : Halogen lamp; • Detector Type: Absorbance: photodiode; Fluorescence : 	01 No.



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	<p>Photomultiplier Tube; • Micro plate types: 6- to 384-well micro plates; • Reading Options: Top and bottom (96- and 384-well plates, cuvette, μDrop Plate); • Measuring Range: Up to 6 Abs; • Software Type: Onboard software with predefined protocols and standard for further data analysis; • Shaking: Linear, Orbital, double-orbital; • Cuvettes: Yes; • Wavelength Selection/Optical System: Absorbance: Monochromator, Fluorescence intensity: excitation and emission monochromator or Filter based Top Fluorescence and Luminescence. Includes LUM cube; • Wavelength Range: Absorbance: 200-1000 nm. Fluorescence intensity: Excitation: 300 to 700 nm, Emission: 270 to 840 nm, Luminescence: 360 to 670 nm; • Photometric Linearity: 0 - 4 Abs (96-well plate) at 450 nm, $\pm 2\%$; 0 - 3 Abs (384-well plate) (at 450 nm, $\pm 2\%$); • Bandwidth: ≤ 5 nm; • Accuracy (Photometric): 0.003 Abs or $\pm 2\%$, at 200 - 399 nm (0 - 2 Abs); 0.003 Abs or $\pm 1\%$, (at 400 - 1000 nm (0 - 3 Abs)); • Incubator Temperature: Ambient + 2°C to 45°C</p> <p>• Precision: SD < 0.001 Abs or CV < 0.5%, (at 450 nm (0 - 3 Abs)); • Sensitivity: Fluorescence intensity (top reading): < 0.4 fmol fluorescein/well (black 384-well plate); Luminescence: < 7 ATP/well (white 384-well plate); • Dynamic Range: Fluorescence intensity: top reading > 6 decades; Luminescence: > 7 decades; • Measurement Speed: Reads a 96-well plate in 12-15 sec., a 384-well plate in 23-45 sec., and a 1536-well plate in 135 sec. (minimum times); • Spectral Scanning Speed: < 2.2 s/well 400 to 500 nm, 1 flash, 2 nm Step; • computer control, ports for printer connection and USB flash drive, power supply compatible; • Includes: μDrop plate. • Compatibility: Automation; • Cuvette Size: 40-58 x 12.5 x 12.5 mm (H x W x D); • Supply with all Accessories. • Warranty: 3 year</p>	
	<p>DST – FIST Project :</p>	
13.	<p><u>High Performance Liquid Chromatographic System Quaternary gradient equipped with RI Detector :</u> CONFIGURATION: HPLC system Pump- Quaternary gradient Pump, Detector- RI detector, Injector- Manual injector, Column Oven, Four columns (C8 and C18- 2 No. each) In line degasser, Software with scope for RI, PDA, fluorescence detection, Sign wave UPS-Inverter, Computational hardware for running the software.</p> <p>Refractive Index detector :</p> <ul style="list-style-type: none">• Detection of components without UV chromophores• Countercurrent heat exchanger• Repeatable detection technique• Thermally isolated optics bench for temperature stability <p>Auto-zero, auto-purge, and LED-displayed diagnostic programming</p>	01 No.
14.	<p><u>UV-VIS-NIR Spectro Photometer :</u> CONFIGURATION: Double Beam system for the UV to NIR</p> <ul style="list-style-type: none">• Scanning mode and multi wavelength measurement• Quartz coated optics for high long term stability• Passing all pharmacopeia demands (optical resolution, wavelength accuracy, photometric Accuracy and reproducibility and more)• Large sample compartment	01 No.



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	<ul style="list-style-type: none"> • Measurement of extremely diluted samples using cells up to 100mm • Powerful Windows UV VIS Software for system control, result storage and presentation • Wavelength range 190 nm ... 1100 nm • Spectral resolution 0.5, 1, 2, 4 nm • Quartz standard cells, 10 mm path length, 4 pieces • Microcuvette -250 microlitre cuvette • Wavelength range 200 - 1100nm, inside diameter 75 mm <input type="checkbox"/> For transmission and diffuse reflectance measurements for solid, liquid and powder. 	
15.	<p><u>Fluorescence Photodiode Array Detector For HPLC :</u> CONFIGURATION:</p> <p>a) Fluorescence Detector-</p> <ol style="list-style-type: none"> 1. Multiple detection modes with reduced time to develop fluorescence detection compatible with item 1. , 2. Compatible to be added with Item I HPLC software and Instrument. 3. Axially-illuminated flow cell with less stray light and more path length. 4. Three-dimensional spectral scanning. 5. Multi-channel fluorescence monitors. 6. Low noise performance. 7. Integral calibration for wavelength accuracy <p>b) Photo Diode Array Detector-</p> <ol style="list-style-type: none"> 1. Maximal signal-to-noise across the entire wavelength range with Deuterium lamp., 2. Optimized sampling rate and time constant., 3. Compatible to be added with Item I HPLC software and Instrument., 4. Wide, linear dynamic range with constant optical., 5. Low noise performance <10 μAU., 6. Simultaneous quantification of components within a single chromatographic separation., 7. Compound identification & co-elution detection., 8. Lamp optimization for the best performance of a Deuterium lamp., 9. Console software for monitoring 10. Thermal management. 	01 No
	RPS Project :	
21.	<p><u>ELISA Reader :</u></p> <p>4.3" Touchscreen color LCD display; Reads 6, 12, 24, 48 and 96 well Microplates; Can perform Endpoint, Kinetics assays and Well area Scanning (under computer control);</p> <p>On-board software features: Up to 40 user-programmable protocols; Quick menu; Create, edit or run protocols; Save results to USB thumb drive; Wavelength Range: 400 – 750 nm. Absorbance Range: 0.000 to 4.000 O.D.</p> <p>Resolution: 0.001 OD (standalone mode) : 0.0001 OD (under Gen5 Control); Light Source: Tungsten Halogen Lamp; Detector: Photodiode; Filters Supplied: 405, 450, 490 & 630nm.</p> <p>Read speed: 11 secs /96 wells; Micro plate Shaking: Linear with programmable speed and duration.</p> <p>Supply with Computer with i7 processor or higher, 8 GB RAM, 1 TB HDD, USB Ports, Colour Monitor, Keyboard, Mouse, Windows 10 Pro (64-bit)</p>	01 No.



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operating system, MS Excel 2016 or later (64-bit). and online UPS 5kva power backup unit. Supply with 1 Pair of quartz cuvettes (Volume: approx. 400uL)., ELISA Plates flat bottom, UV-Visible (Qty: 10 each)., Laser Printer (Duplex model). Accessories for upgrading to fluorescence polarization (on field). Accessories for upgrading to micro plate well area imaging facility. Accessories for upgrading to a gas control option (O2 & CO2) for long-term kinetics. Low volume plate.

TERMS AND CONDITIONS FOR QUOTATIONS

The quotation should be submitted as per **TWO ENVELOPE SYSTEM ONLY**. Both the Bids (Technical as well as Commercial) shall have to be submitted. Bids not submitted will not be entertained.

i) Envelope No.1: Technical Bid

Technical Envelope shall contain following documents:-

- Technical literature/ Leaflet/ Samples/ Information/ of the make and model no etc quoted.
- GST / CST registration certificate.
- Authorization certificate from manufacturer.
- No deviation certificate.
- List of users with complete address, name of contact persons, contact numbers and email address.

ii) Envelope No.2: (Commercial Bid)

- The rate should be quoted only for the items specified in the Technical Bid (Envelope No.1) and should be for items of given specification / Make /Model/ Manufacture.
- Bidder should not quote his offer any where directly or indirectly in Technical Envelope (T1), failing which the Commercial Envelope (C1) shall not be opened and his tender shall stand rejected.
- Inspection charges if any are to be borne by the supplier.

Validity: The rates offered should be valid up to 31st March of year from the date of opening of Quotations.

Delivery: Rates quoted will be considered FOR destination, Installation & training at College Premises unless otherwise stated.

Payment: Payment will be made as and when the grant is available after receiving the goods in satisfactory conditions and satisfactory demonstration/Installation etc. at the consignee's destination at cost of supplier.

Taxes: Rates quoted will be considered **inclusive of all taxes**, if not stated separately in the quotation. (Statement like taxes extra or as applicable will not be considered).

General Note:-

- The supply shall be executed according to instruction by Institute.
- The **technical support shall be provided by the vendor/ supplier without any additional charge during guarantees/ warranty period.**
- In lieu of any defect in material, the agency shall replace the material.
- For any quoted brand if Authority letter from the company in original stating that he is authorized to participate in the quotation and minimum three quotations are not available it will be rejected.
- Do not quote for the brand for which authority letter is not available.



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- Manufacturer / supplier should submit the signed and stamped rate catalogue/ booklet whenever demanded by us so as to enable us to know which make is quoted along with model no / sr. no. of the item / code no etc.
- Rate quoted as per authorized pricelist will be considered. Any change / deviation in the rate of any item should be informed in advance and will be only applicable if approved by purchase committee.
- The supplier has to submit copy of authorization letter from the company.
- Proof of permission to manufacture the equipment/ item mentioned in the tender document from competent authorities.
- Proof of permission for sales/trading of the equipment/ item or of similar kind mentioned in the quotation document from competent authorities.
- The Institute reserves the right to reject any or all quotations without assigning reason therefore.
- Warranty and AMC if applicable.
- **The dispatch number of this office should necessarily be superscripted on the Envelope.**
- Supplier must furnish following Registration Description on separate sheet with technical bid.
- Supplier also give the details of CMP registration no. for on line payment.

Description of Registration to be filled up by Agency

(PAN card, GST, Professional Tax, Service Tax)

Sr. No.	Description of Registration	Registration No.	Validity Period	Copy attached	
				Yes	No
1.	PAN card				
2.	GST				
3.	Professional Tax				
4.	Service Tax				

**Signature & Name of the authorized person
of quoting agency with the seal of the firm**

Date:

100 *S.L. Deore*
Principal
Govt. College of Pharmacy,
Amravati.

[Handwritten signature]