

UNIVERSITY OF JAMMU
SCHOOL OF BIOTECHNOLOGY, UNIVERSITY OF JAMMU-180006

School of Biotechnology, University of Jammu, Jammu & Kashmir is interested in the purchase of **UV-VIS SPECTROPHOTOMETER FOR SOLID AND POWDER SAMPLE ANALYSIS** per specifications given in the Annexure 1. The Department invites sealed bids / tenders bids from reputed Manufacturers or their Authorized Distributors / Dealers for Supply, Installation and Training of **UV-VIS SPECTROMETER FOR SOLID AND POWDER SAMPLE ANALYSIS**. Interested parties may submit their sealed bids online as per Technical Specifications given at Annexure 1 and General Terms & Conditions given at Annexure II. The tender be published online on <https://jktenders.gov.in>. The TECHNICAL BID and PRICE BID has to be submitted online before the due date i.e. 03rd April 2020 Whereas hard copy of the TECHNICAL BID along with EMD has to reach to the office of the Director, School of Biotechnology, University of Jammu, Jammu 180006 before the due date in a sealed envelope (duly superscripted with Tender No. and date).

For any query pertaining to this tender contact Professor Jyoti Vakhlu, School of Biotechnology University of Jammu, Jammu 180006.

The technical bid will be evaluated first and price bid will be opened only in respect of those Vendors, who are found technically qualified after evaluation of Technical Bid. The Technical bid will be opened on 07th April 2020 in the School of Biotechnology, University of Jammu, Jammu - 180006

Director
School of Biotechnology,
University of Jammu, Jammu - 180006

Ref. No. JU/SBT/2020/2168

Dated: 05-03-2020

Annexure-I

Item No	Equipment	Quantity	Technical Specification
1	<u>UV-VIS Spectrometer for solid and powder sample analysis</u>	3	<u>THESE ARE THE MINIMUM SPECIFICATIONS, EQUIPMENTS WITH BETTER SPECIFICATIONS WOULD ALSO BE CONSIDERED.</u>

UV-VIS Spectrophotometer for solid and powder sample analysis

PC controlled double beam UV-Visible Spectrophotometer for solid and liquid sample analysis in reflectance/transmission and absorbance mode, should be quoted with below mentioned specifications:

- Source should Tungsten & Deuterium lamp with automatic changeover.
- **Monochromator:** holographic grating with at least 1000lines/mm, Turner with 0.2 m focal length.
- **Detector :** Si diodes, Sample and Reference
- **Photometric System :** Double beam optics
- **Wavelength range :** 190-1100 nm
- **Spectral Bandwidth :** 0.5, 1, 2, 6 nm or better (Variable bandwidth)
- **Wavelength Accuracy :** +/- 0.1 nm or better
- **Wavelength Reproducibility :** < 0.01 nm
- **Photometric Range :** -4 to +4 or better
- **Photometric Accuracy :** +/- 0.002A (0-5 Abs) and +/- 0.004A (.5-1 Abs) or better
- **Photometric stability (drift):** 0.0003 A/h or better
- **Noise at 500 nm, 0A RMS(A):** 0.00005 A or better
- **Stray light :** < 1.0% (198 nm KCL) or better
- **Baseline Stability :** < 0.0003 Abs/h (700nm, after One hour warm up) or better
- **Maximum Scan Rate :** 2000 nm/min or better
- **Maximum Slew Rate :** 5000 nm/min or better
- **Environmental Requirement :** Temperature: 15- 35° C and Humidity: 30-80% Non-condensing
- **Software:** System compatible original Licensed Software should be quoted with following capabilities :-
 - Multi- component measurement -Software should measure Absorbance, Transmittance and Reflectance at the full or selected Wavelength with real-time spectral displays and live instrument and accessory status bar.
 - Software should have facility to export data to Clip board, CSV file, Excel file, BMP file, ASCII file, JCAMP file Zoom In / Out, Add / Edit Labels.
 - Software should have facility for fully integrated Scan, Kinetic, and Wavelength program data collection mode.
- **Standard Cell Holder** - Accepts one rectangular or microcell with 10 mm pathlength, 50 mm integrating sphere for powder, solid samples
- **Quartz Cuvettes :** 3.5 ml (2 set), 1.75ml, 1.4 ml, 1.05 ml, 0.35ml, 0.7 ml volume capacity – 1 set
- **Nano Cuvette:** Nano cuvette with 1 loading plate, 1 bubble Checker with Cuvette Volume of 2 uL and Pathlength of 0.5mm (2)
- **Integrating Sphere** – 50 mm integrating sphere for transmittance/reflectance should be quoted in main item. Integrating sphere has to be quoted with proper reference material for background correction and all necessary accessories
- **Powder holder** should be quoted for analysis of solid sample
- Branded Suitable latest PC with i5 processor or better , Windows 10 Home Single Language 64, 1 TB HDD 7200 rpm , 8 GB DDR4 SDRAM, laser printer should be quoted.
- **Consumables:** 1 Visible Lamp and 1 UV Lamp should be quoted optionally.
- **Installation & Training to be provided.**



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| <ul style="list-style-type: none">• Supplier should clearly mention about their service set up in India (preferably in Northern part of India) for prompt service support along with contact details of service engineers specially trained on the offered system. Service should be provided within 72 hrs from the report of technical problem so that machine down time is minimized. In case the Equipment / System remains non-operational for more than 5 days then warranty period will be extended for the equivalent period for which Equipment / System remained non-operational. Warranty extension in such case shall be done without prejudice to any other Term & condition of the contract.• Supplier should confirm the availability of minimum essential spares in the next 15 years after installation. |
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21/1/2020

Annexure-II

General terms and conditions

1. Rates should be F.O.R. Jammu University Campus.
2. In case of foreign manufacturer kindly quote F.O.R Jammu University Campus in foreign currency. Also quote tentative charges for custom Duty, Clearance charges and Transportation and Insurance up to Jammu separately.
3. Goods must conform to our indicated specifications. Detailed technical and other specifications / literature must be enclosed.
4. Indicate concessional rates of tax for educational institutions. The GST rates must be clearly mentioned separately.
5. The submission of the tenders will be online. The Technical Bid and Price bid has to be submitted online on www.jktenders.gov.in. Whereas the hard copy along with EMD has to be submitted offline on or before due date in a sealed envelope.
6. Earnest Money Deposit (EMD) 2% of estimated price to be submitted along with commercial bid. Bids without EMD will be rejected.
7. The warranty of the product should be at least five Year.
8. The rates should be valid for 120 days. Both technical bid and the commercial bid addressed to undersigned and duly sealed /signed and tapped with official stamp should reach this office latest by 03rd April 2020.
9. Bidder should submit Purchase orders and / user List as a proof of the dealing with other Government organizations / Institutions. The date of the supply order should be within last Three years from the date of publishing the BID.
10. Bidder should submit Valid Authorization Certificate from OEM for each against this NIT.
11. The firm/bidders should provide non blacklisting certificate mentioning it should not have criminal records/cases/activities.
12. Reports on Financial standing of the bidder such as profit and loss statement, balance sheet and auditor reports for the past three years, banker's certificate etc. should be provided by the bidders.
13. The bidder's firm should be established since last 5 years Documentary Evidence to be submitted along technical BID.
14. The bidder should have enough strength of people for the after sales support with their branch offices near to Jammu/Chandigarh. The details of Service Centre and Office addresses along with Service personnel need to be shared for the verifications.
15. Self-attested copies of GST and PAN card and Firm registration certificates to be submitted.
16. The bidder should have ISO or equivalent quality Certification.
17. The delivery, installation and operational training of the instruments/equipment should be completed within 45 days from placing of the order failing which the bank guaranty shall be retained by the Department.
18. The successful Bidder must provide Bank Guarantee equivalent to 10% of the cost of equipment to the Value of Order from Nationalized or Scheduled bank.
19. All Documents submitted in technical BID should be self-Attested (Signed and Stamped).