

SARDAR PATEL UNIVERSITY, MANDI HIMACHAL PRADESH



Tender for Supply of

"Gas Chromatography and Different Spectroscopy Instruments"

to

Sardar Patel University, Mandi, Himachal Pradesh,
India.

Sr. No.	Contents	Page No.
1.	Schedule of tender	3-4
2.	Tender notice	5-6
3.	Important notes to bidders	7-8
4.	Terms and conditions of tender	9-13
5.	Technical specifications	14
6.	Annexure-A	15-24
7.	Other forms	25-31

SARDAR PATEL UNIVERSITY, MANDI

HIMACHAL PRADESH

1. Schedule of Tender

Tender document for the supply and installation of “Gas Chromatography and Different Spectroscopy Instruments” at Sardar Patel University, Mandi, Himachal Pradesh, India.

Online Tenders are invited from reputed manufacturers/ firms/ vendors, etc. having adequate experience in supplying “Gas Chromatography and Different Spectroscopy Instruments” "Part A" as Technical Bid and "Part B" as Financial Bid. The details are as follows:

Sr. No.	Name of the Instrument	Quantity	Specification	EMD Amount (INR)	Tender Fee (INR)
1.	Gas Chromatography Instrument	01	As per the specification document attached in 'Annexure-A'	Rs. 2,50,000/-	Rs. 5,000/-
2.	Double Beam UV-Visible Spectrophotometer	01			
3.	Double Beam UV-Visible Spectrophotometer with Diffuse Reflectance Spectroscopy	01			
4.	FTIR Spectrophotometer with Diamond ATR	01			
5.	Fluorescence Spectrophotometer	01			

The last date of online receipt of e-tender is 18-11-2024 up to 11:00 AM. The online technical qualification bid of the tenderers will be opened on 18-11-2024 at 3:00 PM and financial bid of only those tenderers who qualify the technical bid will be opened subsequently. The bid document details are available online on the website <https://hptenders.gov.in> The Bidder would be required to register on the website which is free of cost. For submission of bids the bidder is required to have digital signature certificate (DSC) from one of the certifying authorities.

The Registrar, SPU Mandi, H.P. reserves the right to accept or reject the Tender/Bids without assigning any reason. For inquiry, if any, please contact at telephone No. 01905-292295.

Type of Tender: Two Bid Systems.

Tender fee: Bidders should send tender fee in the shape of DD in favour of FINANCE OFFICER, SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH, INDIA.

EMD: Bidders should submit the EMD in the shape of DD/FDR/Guarantee in favour of FINANCE OFFICER, SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH, INDIA.

Tender fees and EMD should also be submitted in physical on or before last date and time of submission of online tender.

Note:

1. If the tender is not opened on the above date, due to unforeseen circumstances, then the next working day will be considered as tender opening date.
2. The bidders who fail to submit the required tender fee and EMD, their technical & financial bid will not be considered for opening.
3. Bidder or their authorized representatives may attend the opening of the tender.

SARDAR PATEL UNIVERSITY, MANDI

HIMACHAL PRADESH

No-SPU MANDI/STORE/PM USHA/2024-25

Dated 21-10-2024

e-TENDER NOTICE

Tender Notice for supply of “**Gas Chromatography and Different Spectroscopy Instruments**” to Sardar Patel University, Mandi, Himachal Pradesh, India.

Sardar Patel University Mandi, H.P. invites online tenders from well-established/ registered Firms for the supply of “**Gas Chromatography and Different Spectroscopy Instruments**” who have at least three years experience . The last date of online receipt of e-tender is 18-11-2024 up to 11:00 AM The online technical qualification bid of the tenderers will be opened on 18-11-2024 at 3:00 PM and financial bid of only those tenderers who qualify the technical bid will be opened subsequently. The bid document details are available online on the website <https://hptenders.gov.in> The Bidder would be required to register on the website which is free of cost. For submission of bids, the bidder is required to have digital signature certificate (DSC) from one of the certifying authorities.

The Registrar, SPU Mandi, H.P. reserves the right to accept or reject the Tender/Bids without assigning any reason. For inquiry, if any, please contact at telephone No. 01905-292295.

**Registrar, SPU Mandi,
Mandi, Himachal Pradesh.**

SPU Mandi, HIMACHAL PRADESH

PHONE NO. 0177-

E-MAIL: deanplanning@spumandi.ac.in

e-TENDER for the supply of “**Gas Chromatography and Different Spectroscopy Instruments**”

Estimated Contract Value: Rs. 1,00,00,000-00

Critical Date for Submission of e-tender

Publishing Date : 21-10-2024

Document Download /Sale Start Date: 21-10-2024

Bid Submission Start Date : 21-10-2024

Bid Submission Closing Date : 18-11-2024

Bid Opening Date : 18-11-2024

Fee Details

Fees of Tender Document: Rs. 5,000/- (Demand Draft) Non Refundable.

Earnest Money Deposit (EMD): Rs. 2,50,000/-(Demand Draft)

Note: The hard copies of EMD and Tender Document fees as uploaded in the e-tender website should reach at The O/O Registrar, Sardar Patel University, Mandi-H.P. on or before 18-11-2024 at 11:00 AM.

Tenders are to be submitted only through website <https://hptenders.gov.in> only. Tenders submitted in any other form will not be accepted.

Important Notes to the Bidder:

1. SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH invites e-Tender under "Two Bid system" for the supply & installation of **“Gas Chromatography and Different Spectroscopy Instruments”** at SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH, as per the specifications given in the "Annexure A".
2. The bidders are requested to read the tender document carefully and ensure all the compliance with instructions herein. Non-compliance of the instructions contained in this document may disqualify the bidders from the tender process.
3. Any clarification regarding tender specification before submission of tender document can be discussed with the Store & Purchase Officer, SPU on contact no. 7018111936.
4. Please Note that the tender document is subjected to verification with the original document and if any discrepancy is found, the tender would be rejected.

SARDAR PATEL UNIVERSITY, MANDI HIMACHAL PRADESH

(To be filled by the Vendor/ Bidder)

1. Name of the Vendor:

2. Full Address of the Vendor:

3. Telephone/ Mobile No.

4. Fax. No. (If any) or mail Address:

5. Registration No. of the firm:

6. PAN:

7. GST Registration No.:

8. Details of the DD/FDR/Bank Guarantee:

Tender Fee (Non-Refundable): D.D No.

Dated:

E.M.D Amount (Refundable): DD No./ FDR/ Bank Guarantee

Dated:

Seal and signature of the bidder/Vendor

TERMS AND CONDITIONS OF THE TENDER

1. The Bid shall be treated as a Two Bid System. The Technical Bid will be considered for applicants whose Tender Fee and Earnest Money Deposit (EMD) is found in order. Financial Bid shall be opened for those bidders who have qualified in Technical Evaluation.
2. Changes/amendment: At any time prior to the deadline for submission of tender, the University may amend the tender documents issuing by addendum/corrigendum. The University shall have the right at any time by written notice, in the form of an amendment order, to make any changes, if deemed necessary, including, but not limited to, changes in specifications, design, delivery, testing, methods, packing or destination.
3. Bid Validity- Bids should be valid for a period of 180 days from the date of opening of financial bid and final allotment thereof. No request for the increase of rates will be entertained during the contract period.
4. Withdrawal of bids: No bidder will be allowed to withdraw its bid in the Interval between the deadline for submission of bids and expiration of period of bid validity. Withdrawal of bid during this period will result in forfeiture of the bidder's bid security (EMD) and other sanctions.
5. OEM/Authorized Dealer/agents of Supplier: when a firm sends quotation for an item manufactured by some different company, the firm is also required to attach in its bid, the manufacturer's authorization certificate and also manufacturer's confirmation of extending the required warranty for that product.
6. Bid Security: Bid Security should remain valid for a period of 180 days beyond the final bid validity period. The Bid Security can be submitted in the form of an account payee demand draft, fixed deposit receipt or banker's cheque.

A bidder's Bid Security will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required Performance Security within the specified period.

Bid securities of the unsuccessful bidders will be returned to them at the earliest after expiry of the final bid validity period and latest

by the 30th day after the award of the contract. Bid Security will be returned back to the successful bidder on receipt of Performance security.

7. Performance Security: On receipt of notification of work award letter from the University, the successful Bidder within 15 days shall furnish the performance security at 5% of the cost of the Contract/tender in the form of DD/FDR in favour of The FINANCE OFFICER, SARDAR PATEL UNIVERSITY, MANDI, HIMACHAL PRADESH or in the form of Bank Guarantee issued/confirmed from any of commercial bank in India in an acceptable form. Performance security should remain valid for a period of 60 days beyond the date of completion of all contractual obligation of the supplier, including warranty obligations. The Performance Security will be forfeited and credited to the University account in the event of a breach of contract by the contractor. It will be refunded to the contractor without interest after he duly performs and completes the contract in all respects but not later than 60 (sixty) days of completion of all such obligations including the warranty under the contract. Failure of the successful bidder to submit the performance security shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the University may make the award to the next lowest evaluated bidder on same rate or call for new bids.

8. Prices and Taxes: Prices quoted should be firm and shall remain firm until required deliveries have been completed

9. Term of Payment: Payment shall be released on successful/satisfactorily installation of the instruments along with the desired accessories and satisfactorily trainings in single or multiple sessions as per the requirement of the university.

10. TDS on account of Income Tax and GST will be made as per prevailing rates.

11. No tender will be considered unless and until all the documents are properly signed.

12. The quotation will be regarded as constituting an offer or offers open to acceptance in whole or in part or parts at the discretion of SARDAR PATEL UNIVERSITY Authority.

13. The tenderer who wishes to file appeal against the award of rate contract may do so within 30 days of the award of rate contract and the appeal shall lie

to the secretary (Ind.) or any other authority as may be notified by the Government.

14. The rates should be quoted F.O.R destination any CAMPUS OF Sardar patel university in Himachal Pradesh unless otherwise specifically mentioned in Schedule “ A” of the rate contract.

15. The tenderer must attach copies of their existing rate contracts, if any with the DGS &D or any other State Govt.’s

16. All photocopies, which are required to be attached with the tender should be got self-attested unless specifically mentioned anywhere in the tender.

17. GST and other taxes be indicated separately otherwise rates will be deemed to be inclusive of such levies/ taxes and no future increase in duty/taxes will be allowed

18. Price fall clause – the offer of rates by the tenderer will be subject to the price fall clause i.e. if any item is offered at a lower rate by the tenderer at any other state/ place in India, he shall not charge higher rate for the item offered in the tender. In the event of higher rates offered by such tenderer, the rates so offered by such party can be rejected at any stage.

19. Tenderers who do not fulfill the above-mentioned requirements, their tender will be liable for rejection.

20. The bidder will have to quote for each item otherwise his bid will not be considered for Technical evaluation.

21. Selection of the bidder: For the purpose of selection of the bidder, a two-stage bidding process will be followed. The response to the tender should be submitted in two parts viz. Technical Bid & Financial Bid.

a. Technical Bid: Technical bid should contain information regarding the company/firm registration details, authorization letter, clientele list (List of Users), performance certificate from clients, self-declaration for not blacklisted, business turnover, experience, PAN, ITRs and other details of the firm to judge the suitability of the bidder. Bidder must ensure the following conditions while going for the bidding as per annexure–A-Form-I

I. SPECIFICATIONS: Specifications are the basic essence of the product /contract It must be ensured that the offers must be strictly as per our specifications mentioned at Annexure-A-Form-II at the technical specification section.

II. A Signed & Stamped compliance sheet of the technical specification of the offered instruments must be enclosed with the technical bid in the prescribed format.

III. Average Annual turnover of the bidder for the last three successive years should be Rs.1 Crore or more and duly certified by the chartered accountants.

IV. Self-attested photocopy of annual turnover, IT clearance Certificate, and audited balance sheet for the last three years.

V. The bidder/OEM self-declaration stating that he/she is not banned/debarred or blacklisted by any Central/State Govt. of India/PSU/Organizations/Institutes in India or abroad in the prescribed format.

b. Shortlisting of vendors: The University will shortlist technically qualifying vendors and the financial bid of only these vendors will be opened. The university reserves the right to decide whether the items being quoted are as per the requirement of the University and are of standard/leading brands in the market. The university reserves the right to decide which offer best suits the requirement of the university. Further, after opening financial bids of the short-listed tenders, if there is a discrepancy between word and figure, the amount indicated in words will prevail.

c. Price Bid/ Financial Bid: Financial bid should contain the price of the material required to be supplied.

22. Incomplete tenders, amendments and additions to tender after opening are liable to be ignored and rejected.

23. Installation and Commissioning: The awardees must ensure installation within 90 days failing which 5% of the payment will be deducted for a week and up to maximum of 10% beyond a week of the complete unit with necessary support to the indenters as per details and lists to be made available by the University.

24. Conditional Offer will not be accepted.

25. Cancellations of tender: The University reserves Right to Accept any Bid and to Reject any Or all Bids:

26. Warranty:

I. *Minimum Three-year onsite comprehensive warranty.* During the warranty period, the replacement of any part or rectification of defects of the works will be free of cost.

II. Any deviation in the material and the specifications from the accepted terms may liable to be rejected and the bidders need to

supply all the goods in the specified form to the satisfaction/ specifications specified in the order/contract and demonstrate at their own cost.

27. Site preparation: The supplier shall inform the University about the site preparation, if any, needed for installation, immediately after receipt of the supply order.

Seal & Signature of Vendor

TECHNICAL SPECIFICATIONS SECTION

Technical Specifications: The tenderer shall meet the respective minimum technical specifications for the items that are being bid for. Any additional features or specifications in excess of these minimum specifications will be appreciated. A set of desired additional features are mentioned along with the minimum technical specifications, wherever appropriate.

I/We the undersigned am/are ready to supply & install the following instruments along with all other accessories complete as mentioned below with accepting the terms and conditions which are enclosed with this order form and quote for the same.

The technical specifications for the Instruments are being placed under this tender have been detailed in "Annexure-A".

Sr. No.	Name of the Instrument	Quantity	Specification
1.	Gas Chromatography Instrument	1	As per the specification document attached at 'Annexure A'
2.	Double Beam UV-Visible Spectrophotometer	1	
3.	Double Beam UV-Visible Spectrophotometer with Diffuse Reflectance Spectroscopy	1	
4.	FTIR Spectrophotometer with Diamond ATR	1	
5.	Fluorescence Spectrophotometer	1	

Annexure-A

1. Technical Specifications for Gas Chromatography Instrument with accessories

S. N.	Description	Technical Details
The GC system will be used for Gases and fine chemicals/Separation etc. should have possibility to install maximum three simultaneous injection unit:		
A)	Gas Chromatograph must be capable of analysing H ₂ , O ₂ , CO, CO ₂ , CH ₄ , N ₂ , etc.	
1	Column Oven:	15 L or Larger for mounting of packed and capillary columns simultaneously
2	Temperature range	above ambient to 400°C
3	Heating Ramps	20 ramps/programming steps or more. Cooling/Negative ramps should be possible.
4	Cooling	Very fast cooling of oven 300 to 50 Deg. C within 8 minutes or faster
5	Electronic Pressure/Flow control:	Pressure setting range: 140 psi or better. The pressure and flows must be independently controlled for all injectors and detectors through software only. Should have constant pressure, constant linear velocity. Pressure and flow program ramps: 7 or more. Carrier gas flow range: He/H ₂ : 0 to 1200 mL/min or better, N ₂ : 0 to 600 mL/min or better
6	Display:	Built-in large graphics display with provision to display chromatograms, method parameters like temperature, Pressure & flow rates etc. Retention time repeatability: < 0.06% RSD, Peak area repeatability: < 2 % RSD
7	Software:	64 Bit Advanced Chromatographic integration software. Software should be user friendly & simple for data handling with feature like easy to use report publisher, online help and answer wizard and fully compatible with Windows 10 or latest.
8	Split/Splitless Injector – 1 No.	a) Temperature setting should be up to 400°C or better. b) Split ratio setting range: up to 9500 or more c) Compatible with different Internal Diameters from 0.05 to 0.53 mm. d) Pressure setting range: Up to 140 psi or better e) Built-in Electronic septum purge, Gas saver mode, Maintains column average linear velocity during column oven heating
9	Packed Column Injector – 1 No.	a) Temperature setting should be up to 400°C or better. b) Split ratio setting range: up to 9500 or more c) Flow rate setting 0 to 100 ml/min with 7 or more programmable steps d) Pressure setting range: Up to 140 psi or better e) Advance/Electronic Flow Control System
10	Thermal Conductivity	Dynamic range: 10 ⁵ or better, Electronic/Advance Flow Control (AFC), Temp. Range: Up to 400°C or more, Acquisition rate: 250

	detector	Hz or more
11	Flame Ionization Detector (FID) – 2 Nos.	Detection Limits – 3 pg C/s or less, Electronic/Advance Flow Control (AFC), Dynamic Range – 10^7 or better, Temp. Range: Up to 400 Deg C or more, Acquisition rate: 250 Hz or more. Automatic flame out detection and reignition
12	Gas Sampling Valve:	Gas Sampling Valve with changeable loop size of 1, 2, 5 mL for gas analysis
13	Auto-injector:	Liquid auto-injector with 12 vials capacity or more. Should have facility for large volume injection up to 150 uL or more. Autosampler Syringes – 5 Nos., Vials, Caps, septa for Autosampler – 300 Nos.
14	Spares & Consumables:	<ul style="list-style-type: none"> a) Injection Port Septa – 100 Nos. b) Glass Insert for Split/Splitless/Packed (2 Nos. Each) c) Graphite Ferrule 0.5 mm and 0.8 mm – 10 Nos. each d) Manual Syringes - 10 uL (5 Nos.) e) Gas Tight Syringes (2.5 mL, 5 mL – 02 Nos. Each) f) Teflon/Tedlar Bags – 10 Nos. g) Glass Wool – 1 No. h) O-Ring – 10 Nos., Column Nut – 10 Nos. i) FID nozzle for Packed and Capillary – 1 No. each
15	Utilities:	<ul style="list-style-type: none"> a) Packed Columns for H₂, O₂, CO, CO₂, CH₄, N₂ – 2 Nos., 30-meter Capillary Columns one No. Rtx-5 or equivalent b) Branded PC i5, 8 GB RAM, 512 GB SSD, Optical mouse, 24" LCD/LED, Licensed Windows 10 – 1 No., Laserjet Printer c) Gas cylinders for Hydrogen, Argon, Zero Air, Nitrogen – 1 No each, Dual stage regulators – 1 No. for each gas d) Wall mount Gas purification and control system for gases e) 5 KVA online UPS with 60 minutes backup with isolation transformer f) Calibration gas mixture of three concentrations for H₂, O₂, CO, CO₂, CH₄, N₂ (250 ppm, 500 ppm, 2000 ppm and 3000 or 5000 ppm)
16	Warranty:	Minimum Three Years
17	Published Brochure & Data sheet	All the specifications asked in tender should be supported by published literature from Principal manufacturer in the form of Brochure & Data sheet. Any claim deviating from published document will not be entertained. Information in published document will be taken for final comparative.
18	Certifications	Bidder/Supplier/Manufacturer should confirm compliance to the following International safety guidelines and should enclose certificates alongwith bid from Principal company/Manufacturer: Electrical Safety (Low voltage directive (LVD) 2014/35/EU EN 61010-1:2010, EN 61010-2-010:2014), Electromagnetic Compatibility (EMC directive 2014/30/EU, EN 61326:2013), Restriction of Hazardous Substances (ROHS directive

		2011/65/EU), Quality/Manufacturing Standards (Quality management system: ISO 9001:2015; Environmental management system: ISO 14001:2015.
19	Installation and Training	Installation and Training to be provided at installation site. Multiple session at least 5 sessions may be required for the training of this instruments

2. Specifications of Double Beam UV-Visible Spectrophotometer with Accessories

Sr. No.	Microprocessor based UV-Vis Spectrophotometer	
1	Photometric System	Double beam optics
2	Photometric range	Absorbance: -4 to +4.0 Abs, Transmittance:0.0 to 400%
3	Photometric Accuracy	+/- 0.0015 Abs. at 0.5 Abs or better
4	Wavelength Range	190 to 1100 nm or better
5	Wavelength Accuracy	+/- 0.05 nm at D2 peak 656.1 nm ± 0.3 nm or less in entire range
6	Wavelength Repeatability	+/- 0.025 nm or better
7	Photometric Repeatability	< +/- 0.00005 Abs at 0.5 Absor lesser < +/- 0.00005 Abs at 1 Absor lesser < +/- 0.00008 Abs at 2 Abs or lesser
8	Scanning speed	Up to 20,000 nm/min or better
9	Spectral Bandwidth	1 nm or better
10	Stray light	< 0.005 % at 220 nm(NaI) or lesser < 0.005 % at 340 nm(NaNO ₂) or lesser < 0.2% at 198 nm(KCl) or lesser
11	Baseline Stability	less than 0.0002 Abs/H
12	Baseline Flatness	less than 0.0003 Abs/H
13	Noise Level	Less than 0.00001 Abs
14	Monochromator	Czerny Turner blazed holographic grating
15	Detector	Silicone photodiode
16	USB Port connectivity	2-3 USB ports for data Transfer, PC, Printer
17	Light source	Tungsten and Deuterium lamp.
18	Quartz Cuvette	Pathlength of 10 mm (02 Pairs)
19	Spectrophotometer should have built in hardware validation for Wavelength accuracy, wavelength repeatability, resolution, stray light, photometric accuracy, photometric repeatability, baseline flatness, baseline stability, noise level.	
20	Windows based Operating software should have built in features like real time concentration display, Photometric mode Single / multi-wavelength, Enzyme Kinetics calculation, event recording such as Addition of reagents during measurement, DNA/protein quantification, etc. Spectrophotometer should have built-in color touch	

	screen display so that it can be used without PC/Laptop also.
22	Branded PC i5, 8 GB RAM, 512 GB SSD, Licensed Windows 10/11 Professional, 24" Monitor, Laser Printer, Suitable capacity Online UPS with isolation transformer with 60 minutes back up
23	Warranty: Minimum Three years
24	Note: Vendor should clearly mention make and model, also enclose Catalogue/Data sheet of the Model quoted in support of the above mentioned Specifications otherwise their bids will be rejected.
25	Installation and Training to be provided at the installation site.
26	Certifications: Bidder should confirm compliance to following International safety guidelines and should enclose certificates alongwith bid from Principal company/Manufacturer: Electrical Safety (Low voltage directive (LVD) 2014/35/EU EN 61010-1:2010/A1:2019, EN 61010-2-061:2015), Electromagnetic Compatibility (EMC directive 2014/30/EU, EN 61326-1:2013), Restriction of Hazardous Substances (ROHS directive 2011/65/EU), Quality/Manufacturing Standards (Quality management system: ISO 9001:2015; Environmental management system: ISO 14001:2015.

3. Technical Specifications of Double Beam UV-Visible Spectrophotometer with Diffuse Reflectance Spectroscopy

S. No.	Description	Technical Details
1	Photometric System	Double beam optics
2	Wavelength Range	185 to 900 nm or better.
3	Wavelength Accuracy	+/- 0.1 nm or better
4	Wavelength Repeatability	+/- 0.05 nm or better
5	Photometric range	Up to 5 Abs or better, Transmittance, Reflectance or better
6	Photometric repeatability	+/- 0.001 Abs (0.5 Abs & 1.0 Abs)
7	Spectral Bandwidth	Variable from 0.1 to 5 nm or better
8	Resolution	0.1 nm or better
9	Wavelength Scan Speed	Up to 4000 nm/min or better
10	Noise level	0.00003 Abs RMS (500nm) or better
11	Stray light	0.005% at 220 nm, 340 nm & 370 nm or lesser
12	Monochromator	Blazed Holographic grating
13	Detector	Photomultiplier
14	Light source	Tungsten and Deuterium lamp with automatic switching
15	Baseline stability	0.0002 Abs/h or lesser
16	Baseline flatness	+/- 0.0004 Abs or lesser
17	Quartz Cuvette	3 ml capacity 10mm path length (02 pairs)
18	Software	Original licensed Windows 10/11 based Operating software in the form of CD ROM with built in features like real time concentration display, Time scan, Photometric mode Single/multi-wavelength, Enzyme Kinetics calculation, event recording such as Addition of reagents During measurement, DNA/protein quantification, etc. Validation Software should be supplied with instrument to check/verify the parameters like Stray Light, Resolution, Noise Level, Drift, Baseline flatness, etc.

19	Solid State Accessory:	Integrating sphere with inner diameter of 60 mm or better for diffuse reflection of direct powder sample analysis, Integrating sphere should have built-in Photomultiplier.
20	Accessories	Branded PC i5, 512 GB SSD or better, 8GB RAM, original windows 10/11 and 24" or bigger monitor, Keyboard Mouse & One Laser B/w Printer, Compatible online UPS with 60 minutes back with isolation transformer
21	Warranty	Three Years
22	Certifications:	Bidder should confirm compliance to following International safety guidelines and should enclose certificates along with bid from Principal Company/Manufacturer: Electrical Safety (Low voltage directive (LVD) 2014/35/EU EN 61010-1:2010/A1:2019, Electromagnetic Compatibility (EMC directive 2014/30/EU, EN 61326-1:2013), Restriction of Hazardous Substances (ROHS directive 2011/65/EU), Quality/Manufacturing Standards (Quality management system: ISO 9001:2015; Environmental management system: ISO 14001:2015.
23	Installation and Training	Installation and Training to be provided at installation site.
24	Important	Note: Quoted Model should be available on the website of the manufacturer, Vendor should clearly mention make and model, also enclose Catalogue/Data sheet from manufacturer of the Model quoted in support of the above mentioned Specifications otherwise their bids will be rejected.

4. Technical Specifications of FTIR Spectrophotometer with Diamond ATR & other accessories

Description	Technical Details
Basic System:	Software controlled FTIR for Liquid, Powder, Gel/Paste, Film samples
Spectral Range:	7800 to 350 cm ⁻¹ or 6000 to 550 cm ⁻¹ or better
Beam Splitter:	Ge Coated KBr or ZnSe
Resolution:	0.9 cm ⁻¹ or better
Signal to noise ratio:	30,000:1 peak to peak 4 cm ⁻¹ resolution, 1 minute or better
Wavenumber repeatability	±0.0005 cm ⁻¹ (@2,000 cm ⁻¹) or better
Light source:	High-energy ceramic source
Interferometer:	30° incident angle Michelson's interferometer with Advanced Dynamic Alignment, Sealed and desiccated.
Detector:	DLATGS Detector with temperature control mechanism
Atmospheric Compensation:	System should minimize effect of atmospheric water and CO ₂ on the sample spectra without the need for reference or calibration spectra
Internal validation unit	The system must have an internal validation unit and should provide validation report to verify FTIR performance as per different pharmacopoeias
Software:	Windows 10/11 based latest software. System should have self-diagnostics function. Software should have provision for creation of user library. Should have search functions Like Spectral search, Peak search, Text search and combination search. Should have programs like Postrun, Spectrum, Quantitation, Photometric. Software is equipped with 20 or more pre-packaged applications through in-built macro program and a Spectrum advisor function that assesses spectrum quality and suggests improvements, allowing anyone to easily conduct analysis.
Library:	Original and licensed library of at least 1500 spectra for organic, inorganic, polymers, drug/pharma samples.
Accessories:	Monolithic Diamond ATR for Liquids, Powder, Film samples (To be supplied from OEM)
PC, UPS:	Branded PC i5, 8 GB RAM, 512 GB SSD, Licensed Windows 10/11 Professional, 24" Monitor, Laser Printer, Suitable capacity Online UPS with isolation transformer with 60 minutes back up
Warranty:	Minimum Three Years on complete System 10 years warranty on all parts of FTIR including Source, Detector, Laser, Interferometer including Electrical & Electronic parts.

	Consumables like Silica gel, Windows are not covered under warranty.
Installation and Training	Installation and Training to be provided at installation site.
Note:	Vendor should clearly mention make and model, also enclose Catalogue/Data sheet of the Model quoted in support of the above mentioned Specifications otherwise their bids will be rejected. No letter head justifications will be accepted.
Certifications:	Bidder should confirm compliance to following International safety guidelines and should enclose certificates alongwith bid from Principal company/Manufacturer: Electrical Safety (Low voltage directive (LVD) 2014/35/EU EN 61010-1:2010/A1:2019, EN 61010-2-061:2015), Electromagnetic Compatibility (EMC directive 2014/30/EU, EN 61326-1:2013), Restriction of Hazardous Substances (ROHS directive 2011/65/EU), Quality/Manufacturing Standards (Quality management system: ISO 9001:2015; Environmental management system: ISO 14001:2015.

5. Technical Specifications of Fluorescence Spectrophotometer with accessories

1	Analysis Capability:	Fluorescence, Chemi-Luminescence, Bio-Luminescence, Electro-Luminescence, measurements of 3D excitation and synchronous Spectra, Time course, quantitation
2	Continuous Light Source:	150 W Xenon Lamp
3	Monochromator:	Blazed holographic grating: 1200 lines or grooves/mm or more
4	Measuring Wavelength Range:	200 – 900 nm or better (Both Excitation and Emission side)
5	Sensitivity:	S/N ratio 1000:1 (RMS) or better using Raman band of water, Excitation Wavelength 350 nm, Bandpass 5 nm, response time 2 second
6	Bandpass:	Excitation & Emission side 2 to 20 nm or better
7	Resolution:	1 nm or better
8	Wavelength Accuracy:	1 nm or better
9	Wavelength Scan Speed:	Up to 60,000 nm/min or better
10	Power Requirement:	220 – 240 V AC, 50 Hz
11	Sample Cell:	Quartz cell for liquid samples 3 mL -2 Pairs
12	Software:	Windows 10 64-bit based operating software. The system should be complete in all respects to make it operational. It should be supplied with instruction manuals, necessary cables, power extensions and other required accessories
13	Computer:	PC with i5 Processor, 8 GB RAM, 512 GB SSD, USB, Optical mouse, Keyboard, 24" Monitor, Licensed Windows 10 Professional, Laseerjet Printer (B & W), Compatible online UPS with isolation transformer with 60 minutes back up
14	Warranty:	Minimum Three Years
15	Note:	Vendor should clearly mention make and model, also enclose Catalogue/Data sheet of the Model quoted in support of the above mentioned Specifications otherwise their bids will be rejected. No letter head justifications will be accepted.
16	Installation and Training	Installation and Training to be provided at installation site.
17	Certifications:	Bidder should confirm compliance to following International safety guidelines and should enclose certificates alongwith bid from Principal company/Manufacturer: Electrical Safety (Low voltage directive (LVD) 2014/35/EU EN 61010-1:2010/A1:2019, EN 61010-2-061:2015), Electromagnetic Compatibility (EMC directive 2014/30/EU, EN 61326-1:2013), Restriction of Hazardous Substances (ROHS directive 2011/65/EU), Quality/Manufacturing Standards (Quality management system: ISO 9001:2015; Environmental management system: ISO 14001:2015.

List of Documents to be uploaded online:

The following documents should be uploaded by the bidders in the form of PDF Files **in the same order as mentioned below**, on the e-Tendering website during the Online Bid Preparation stage.

Sr. No.	List of Documents/ Technical Specifications
1.	Scanned Copy of Tender Fee and EMD
2.	Duly filled and signed Annexure-A-Form-I & Form-II and Annexure-B with supporting Document
3.	A.) The latest three years Audited Balance Sheet / Financial Statement for the year 2021-22, 2022-23 & 2023-24. B.) The tenderer should be financially sound with an average annual turnover of Rs.1,00,00,000/- (One Crore) during last three years to be eligible to participate in tender. (Documentary proof with copies of ITR, TDS and C.A. certificate to be attached)
4.	Scanned Copy of PAN. (Copy to be attached).
5.	Scanned Copy of GST Registration No. (Copy to be attached).
6.	The tenderer shall submit a declaration in the form of an affidavit that he/she has never been blacklisted by any State or agency. A scanned copy to be uploaded.
7.	Income Tax Return for the past three years i.e. 2021-22, 2022-23 and 2023-24.
8.	The acceptance letter with regard to acceptance of all terms and conditions of tender document.

Cover 2: THE FINANCIAL BID (BOQ) SHALL CONTAIN THE FOLLOWING:

The Tenderer shall quote the rates in the financial bid (BOQ) only by posting it on the e-tender website. Any discrepancy in this regard will cause the rejection of Price list.

The Financial Bid (BOQ) shall contain the following:

1. Rates of products are to be indicated by the tenderers in Indian rupees and resultant amounts worked out accordingly by filling in respective Column.
2. All the taxes, duties, levies, etc. will be applicable as per prevailing rates.
3. Any deviation from these terms and conditions is not acceptable and the offers of such tenderers shall be rejected and shall not be considered for evaluation.

EXPERIENCE/ ELIGIBILITY CRITERIA FORM

Form No. I

TECHNICAL BID

1.	Name of Firm/Company	
2.	Address of Registered Office	
3.	Type of Organization (Please tick)	Limited Company/Private Ltd. Company/ Partnership Firm/ Sole Proprietorship concern
4.	Registration No.	
5.	Registering authority	
6.	Name of Managing Director/Managing Partner/Proprietor	
7.	Contact Nos.	
8.	Fax No.	
9.	E-mail id	
10.	Website, if any	
11.	Addresses of Offices in Himachal Pradesh with name of contact persons and contact nos. (please use separate sheet if so required)	
12.	Core Business of the Company/Firm	
13.	Year of establishment	
14.	Annual Gross Turnover during last 3 years	

	2023-24 2022-23 2021-22 Certificate issued by the C.A. (Chartered Accountant) is attached.	
15.	ITR for the last three years 2023-24 2022-23 2021-22 attested by the Chartered Accountant (C.A.) be attached.	
16.	PAN No. of the Firm	
17.	GST Registration No.	
18.	Any other relevant information, you wish to furnish.	

(Signature & Stamp seal of Tenderer)

Form No.II

TECHNICAL BID

1.	Name of the Product with specifications	Fulfilled criteria Yes/No

(Signature & Stamp seal of Tenderer)

Form No. III**COMPLIANCE SHEET**

Name of the Firm _____

Sr. No.	Item/Certificate/Proof Required	Clause/Condition No.	Attached	
			Yes	No
1.	Whether forwarding letter duly signed by the authorized person is attached?			
2.	Whether Account Payee Bank Draft or duly pledged Fixed Deposit Receipts of Bid Security is attached?			
3.	Whether undertaking for bid validity is attached?			
4.	Whether Copy of PAN Card is attached?			
5.	Whether Copy of GST registration is attached?			
6.	Whether declaration with regard to not black listed is attached?			
7.	Whether details regarding Turnover for the last three years is attached?			
8.	Whether undertaking regarding acceptance of all terms and conditions of tender document is attached?			
9.	Whether details of firms infrastructure attached?			
10.	Whether proof of experience of three years for supply to Govt./semi govt. attached?			
11.	Whether declaration with regard to the correctness of tender filed by the tenderers attached?			

(Signature & Stamp seal of Tenderer)

Annexure-B

FINANCIAL BID

PRICE SCHEDULE (in Indian rupees)

Sr. No.	Name of Item	Cost in Rs.	GST	Total cost of the item
1.				
2.				
3.				
4.				
5.				
6.				
7.				

GST worked out @ _____ %

(Signature & Stamp seal of Tenderer)