

TENDER (E-PUBLISHING MODE)

FOR

SUPPLY & INSTALLATION OF INTEGRATED STOPPED FLOW SPECTROSCOPY

SCHOOL OF BASIC SCIENCES,

AT IIT MANDI



Tender No.: IITMANDI/S&P/PUR-194/2015-16/8920-21

Tender date: 19th January, 2016

Last Date of submission: 11th February, 2016

Indian Institute of Technology Mandi

Transit Campus: Mandav Hotel, 2nd Floor (Near Bus Stand), Mandi – 175001 (H.P)

Tel.: 01905-237927 **email:** rajanishgiri@iitmandi.ac.in

Indian Institute of Technology Mandi, Mandi invites tender for supply, erection, installation, commissioning, testing, demonstration and training of **Integrated Stopped Flow Spectroscopy**, as per specifications given in the Annexure attached to the Tender form. All offers should be made in English and should be written in both figures and words. Tender forms can be downloaded from the website (<http://iitmandi.ac.in/administration/tenderseoi.html>) of the Institute. Tender document also published on e- tendering (<http://eprocure.gov.in/eprocure/app>). The bidder can also submit bids online.

The bidders are requested to read the tender document carefully and ensure compliance with all specifications/instructions herein. Non-compliance with specifications/instructions in this document may disqualify the bidders from the tender exercise. The Director, IIT Mandi, Kamand reserves the right to select the item (in single or multiple units) or to reject any quotation wholly or partly without assigning any reason. Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

Terms and Conditions:

1. The technical and financial bids should be quoted separately and put in different sealed envelopes marked "**Technical bid**" or "**Financial bid**" as applicable. These separate bids envelopes are to be put in an outer envelope which should also be sealed.
2. The Vendors who have earlier supplied the equipment to any of the IITs, IISc, IISERs and other Scientific Institute of National Repute may only tender. The details of such institutions and the cost with name of equipment may also be supplied with the bids.
3. The technical and financial bids should be submitted in original. The financial bid should include the cost of main equipment/item and its accessories. If there is any separate cost for installation etc. that should be quoted separately.
4. Each individual sealed envelope as well as the outer envelope should be marked with the following reference on the top left hand corner: "**IITMANDI/S&P/PUR-194/2015-16/8920-21/Item Name. ___ dated 19th January, 2016**"
5. The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender. The bidders should submit copies of suitable documents in support of their reputation, credentials and past performance.
6. The rates should be quoted in figures (typed or printed) and cutting should be avoided. The final amount should be in figures as well as in words. If there are cuttings, they should be duly initialed, failing which the bids are liable to be rejected.
7. Any bids received after **1:00 P.M. on 11th February, 2016** shall not be considered
8. The Technical Bids will be opened on **11th February, 2016 at 03:30 P.M.** The date & time for opening of Financial Bids will be informed later on to the technically qualified bidders.
9. While sending rates, the firm shall give an undertaking to the effect that "*the terms/conditions mentioned in the enquiry letter/Tender Notice against which the rates are being given are acceptable to the firm.*" In case the firms do not give this undertaking, their rates will not be considered.
10. If the supplier/firm is original equipment manufacturer (OEM)/authorized dealer/sole distributor of any item, the certificate to this effect should be attached.

11. The quantity shown against the item is approximate and may vary as per demand of the Institute at the time of placing order.
12. All tender documents should have to be sent through courier, speed post or registered post only. All tender documents received after the specified date and time shall not be considered.

The postal address for submitting the tenders is:

**“Assistant Registrar, Stores and Purchase”
Indian Institute of Technology Mandi (IIT Mandi),
Administrative Block (Mandav Hotel,
Near Bus Stand), Mandi – 175001 (H.P), India”**

13. In the event of any dispute or difference(s) between the vendee Institute (IIT Mandi) and the vendor(s) arising out of non-supply of material or supplies not found according to specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to “The Director, IIT Mandi”, Kamand who may decide the matter himself or may appoint arbitrator(s) under the arbitration and conciliation Act,1996. The decision of the arbitrator shall be final and binding on both the parties.
14. The place of arbitration and the language to be used in arbitral proceedings shall be decided by the arbitrator.
15. All disputes shall be subject to Mandi Jurisdiction only.
16. All tenders in which any of the prescribed conditions is not fulfilled or any condition is putforth by the tenderer shall be summarily rejected.
17. IIT Mandi reserves the right to cancel the tender at any point of time without assigning any reason.
18. The bidders or their authorized representatives may also be present during the opening of the Technical Bid, if they desire so, at their own expenses.

Note: Price bids of only those bidders will be opened whose technical bids are found suitable by the committee appointed for the purpose. Date and time of opening of price bids will be decided after technical bids have been evaluated by the committee. Information in this regard will be intimated to the technically qualified bidders. In exceptional situation, an authorized committee may negotiate price with the qualified bidder quoting the lowest price before awarding the contract.

19. **Clarifications:**

In case the bidders requires any clarification regarding the tender documents, they are requested to contact our office (e-mail: rajanishgiri@iitmandi.ac.in & arsp@iitmandi.ac.in on or **before 30/01/2016**.

20. **Tender Cost:**

A Demand draft of **Rs. 1,000/- (Rupees One Thousand only)** towards non-refundable **tender fee, drawn in favour of “The Registrar, IIT Mandi”** payable at Mandi should accompany the Technical bid documents. In the absence of tender cost, the tender will not be accepted.

21. **Earnest Money Deposit (EMD):**

A refundable amount of **Rs. 1,00,000/-** as earnest money deposit (EMD) in the shape of DD from a scheduled bank in India (**valid for a minimum period of 3 months from the date of submission of tender**) should accompany the bid documents. The DD drawn in favour of "The Registrar, IIT Mandi" payable at Mandi should accompany the bid documents. The EMD should be kept in a separate sealed envelope, should be marked clearly and put in the outer envelope that contains the technical and financial bid envelopes. The bidders should enclose a pre-receipted bill for the EMD to enable us to return the EMD of unsuccessful bidders. Failure to deposit **Earnest Money** will lead to rejection of tender. The bidders should submit separate EMD. In the event of the awardee bidder backing out, EMD of that bidder will be forfeited.

22. **EMD Exemption:**

- Bid Security (also known as Earnest Money) is to be obtained from the bidders except those who are registered with the Central Purchase Organisation, National Small Industries Corporation (NSIC) or the concerned Ministry or Department.
- Quotation submitted by Indian Agent in foreign currency on behalf of their principal or the foreign principal's quotation forwarded by the Indian Agent shall mandatorily submit tender cost along with EMD failing which their offer shall be out rightly rejected.

23. **Pre – Qualification Criteria:**

- a. Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) on the same and specific to the tender should be enclosed.
- b. The Vendors who have earlier supplied the equipment to any of the IITs, IISc, IISERs and other Scientific Institute of National Repute may only tender. The details of such institutions and the cost with name of equipment may also be supplied with the bids.
- c. An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well.
- d. OEM should be internationally reputed Branded Company.
- e. Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between bidder specification and supporting documents etc. may lead to rejection of the bid.
- f. **Furnishing of wrong/ambiguous information in the compliance statement may lead to rejection of bid and further black listing of the bidder, if prima-facie it appears that the information in the compliance statement was given with a malafide/fraudulent intent.**

24. **Prices:**

- a. The Prices quoted should be inclusive of all taxes or duties, packing, forwarding, freight, insurance, delivery and commissioning etc. at destination site (IIT Mandi,

Mandi/Kamand). IIT Mandi is registered with DSIR, Govt. of India and is exempted from Custom / Excise Duty. Exemption Certificate to this effect will be issued by IIT Mandi. **Hence, Customs/Excise Duty exempted price should be quoted.** The rates shall be firm and final. Nothing extra shall be paid on any account. **In the price bid/financial bid, the vendor should clearly mention the final price breakup i.e. ex-work price/FCA price, FOB price, CIP/CIF price & FOR IIT Mandi, Kamand Campus price, as applicable in their bid.**

- b. In case of imported equipment(s)/item(s), the agency commission, if any, payable in Indian rupees should be mentioned separately. For imported equipment, the Letter of Credit will be opened for the amount excluding agency commission in Indian Rupees. The firm should clearly mention the address of foreign bank in the financial bid.

25. Validity:

The bid should be valid for acceptance up to a period of 180 Days. The Bidders should be ready to extend the validity, if required without any additional financial implications.

26. Delivery:

The Equipment should be delivered and installed within the period as specified in the purchase order and be ready for use within 24 weeks of the issue of purchase order unless otherwise prescribed. If the bidder fails to deliver and place any or all the Equipments or perform the service by the specified date, penalty at the rate of 1% per week of the total order value subject to the maximum of 10% of total order value will be deducted.

27. Training:

Bidders need to provide adequate training to the nominated persons of IIT Mandi at their cost. IIT Mandi will not bear any training expenditure.

28. Warranty Declaration:

Bidders must give the comprehensive on-site warranty as required from the date of successful installation of Equipment against any manufacturing defects and also give the warranty declaration that *“everything to be supplied by us hereunder shall be free from all defects and faults in material, workmanship and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specification and shall be complete enough to carry out the experiments, as specified in the tender document.*

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.

- 29. Performance Bank Guarantee:** A performance bank guarantee from a scheduled bank in India for an amount equal to 10% of the price for duration of two months beyond the expiry of warranty period will be taken from the supplier or Indian agent.

30. **Terms of Payment:** Payment will generally be made only after delivery and satisfactory installation, testing, commissioning etc. **This must be specified in the tender/quotation.**

- In case of imported supplies, payment (excluding Indian agency commission, if any) will be made through irrecoverable Letter of Credit in two installments. 80 % of the money will be released on submission of shipping of documents. Remaining 20 % will be released after successful installation of the instrument and submission of a performance bank guarantee for 10% of the order value from a nationalized bank, valid for 2 months beyond the expiry of the warranty.
- In case of required item quoted in INR, 100% payment will be made through wire transfer after receipt of material in good condition and successful installation of the instrument and on submission of a performance bank guarantee for 10% of the order value from a nationalized bank, valid for 2 months beyond the expiry of the warranty.

31. **Tender expenses and documents:** All costs incurred by the bidder in the preparation of the tender shall be at the entire expense of the bidder.

32. **Tender Evaluation Criteria:** The technical bids will be opened and evaluated by a duly constituted committee. After evaluation of the technical bid, the financial bid for only those offers which have qualified in the evaluation of technical bid will be opened.

33. **Return of EMD:**

- The earnest money of unsuccessful bidders will be returned to them without any interest within 15 working days after awarding the contract.
- The earnest money of the successful bidder will be returned to them without any interest within 15 Days after supply of material.

34. **Manual and documentation:** All the manuals necessary for operating and servicing the equipment (including details of electronic circuits) will have to be provided along with the instrument.

35. The IIT Mandi reserves the right to cancel the tender at any stage (point of time) without assigning any reason.

36. Bidders should go through the tender terms, conditions and specifications carefully and fill in the attached compliance statement accurately and unambiguously. They should ensure that all the required documents are furnished along with the bid.

Sd/-
**Assistant Registrar
Stores & Purchase**

BID PARTICULARS

1. Name of the Supplier :

2. Address of the Supplier :

3. Availability of demonstration of equipment : Yes / No

4. Tender cost enclosed: : Yes/No if yes

D.D. No. _____ Bank _____ Amount _____

5. EMD enclosed : Yes / No if Yes

D.D. No. _____ Bank _____

6. Name and address of the Officer/contact person to whom all references shall be made regarding this tender enquiry.

Name :

Address :

Telephone No. :

Fax No. :

Mobile No :

e-Mail :

Web :

Ref:-ENQUIRYNO:-IITMANDI/S&P/PUR-194/2015-16/INTEGRATED STOPPED FLOW SPECTROSCOPY

Sr. No.	<u>Technical Specifications</u>
	<i>General Specifications</i>
1.	Applications: The stopped flow system must be capable to address all major applications required for the analysis of samples in the field of life sciences, biochemistry, biophysics, Protein folding and other protein engineering applications. In particular this system must be capable for Kinetics, Protein folding, DNA dye interaction and Protein drug interaction and chemical kinetics etc.
2.	System should be capable of performing FRET experiments
3.	System must be suitable for stopped-flow fluorescence kinetics.
4.	System must be suitable for stopped-flow absorbance kinetics.
5.	System must be suitable for stopped-flow CD kinetics.
6.	System must be capable for simultaneous kinetics measurements based on detection of Circular Dichroism and Fluorescence signals
7.	automated acquisition of multi-wavelength stopped-flow absorbance kinetics (= time resolved absorbance spectra)
	<i>The Features</i>
	<i>Stopped Flow integrated with CD, absorbance and Fluorescence detection modes</i>
	<i>Stopped Flow Features</i>
8.	Syringes: Minimum Four syringes with stopped flow unit
9.	Dead Time: 1.1 ms or less dead-time with standard 20 μ L volume cell.
10.	Minimum dry volume of 25 μ L per syringe per shot
11.	Additional micro-cuvette accessory should be provided for measurements of fast reactions
12.	Dead Time: Automated dead-time measurements with every drive
13.	Mixing units: Single and double mixing
14.	Lamp: Highly stable 150W Xe lamp
15.	Lamp: Highly stable 150W Mercury-Xenon lamp
16.	Monochromator: Programmable monochromator enabling scanning in absorbance and fluorescence excitation modes and acquisition of time-resolved absorbance spectra (240-850nm). More wavelength range will be preferred.
17.	Monochromator: Programmable scanning emission monochromator
18.	Flow circuit: Biocompatible micro volume sample flow circuit
19.	Temperature range for stopped flow unit: Temperature range of -20°C to

	+65°C. More range will be preferred.
20.	Mixing ratio: Large ratio asymmetric mixing facility (when used with different volume drive syringes). Range from 1:1 to 1:25
21.	Cell should have dual observation ports for CD and fluorescence simultaneous measurement
22.	Dual fluorescence accessory. Should allow simultaneous acquisition of two independent fluorescence signals. Dual fluorescence should include the option of Dual detection
23.	Thermostatted water recirculator
	Circular Dichroism Detection Unit Features
24.	Light source: As described for stopped flow
25.	Wavelength range: minimum 163-900 nm. More range is optional.
26.	Wavelength Accuracy: Accuracy: at least ± 0.2 nm (170-400nm)
27.	CD scale: Automatic scaling up to ± 6000 mdeg. More range will be preferred.
28.	CD baseline stability: Minimum ± 0.03 m ^o /hour or better
29.	Stray light: Less than 3ppm at 200 nm
30.	Temperature control: temperature probe covering a wide temperature range with a capability to acquire CD spectra in a continuous temperature ramping mode for determining thermodynamic data should be included
31.	Cell Carriage: 10 x 10 rectangular cell holder for use with the Peltier with cell spacers for 5mm, 2mm and 1mm cells.
32.	Software: 1) Basic system control & analysis software to be included 2) Software for analysis of multiwavelength temperature scan data capable of calculating midpoint temperatures & van't Hoff enthalpy should be included 3) Secondary structure analysis program to be included
33.	Linear Dichroism (LD) detector: should be included
34.	Adjustable detector position: In normal operation (using Peltier temperature controlled cell holder) the CD detector is easily adjustable along the optical axis and able to be positioned very close to the sample cell in order to maximise signal collection when studying high scattering samples
35.	Automated shutter: Before the monochromator so that optics (and sample) are only exposed to light during data acquisition (thus extending the lifetime of the optical components)
36.	Fluorescence detected CD: Includes FDCD detection
37.	Standard software licensing: Software to install the data display software on other PC's to allow data inspection, analysis and presentation at the desktop. Minimum five license to install the instrument control software on other PC's to allow users to gain familiarity with the instrument operation (running in data emulation mode) at their desktop
	data export format at least
38.	a) Export to BMP, JPG, TIFF b) Export to ASCII format and MatLab c) Must include automated system configuration for operation in liquids to operate these modes by one mouse click d) Software must be a sole package for all modes and attachments with

	<p>no need for additional software programs.</p> <p>e) Software package must include both data acquisition and data processing software in one package with no need for different programs operation.</p> <p>f) Software must be free-for copy, e.g., can be installed on unlimited number of off-line PC</p>																																				
	Accessories																																				
39.	4 Drive Syringes, 2 Stop Syringe, 2 Stop Valve, 2 Left Hand Drive Valve, 2 Right Hand Drive Valve, 4 Luer Fittings, 4 Set of O Rings, 4 Peek Tubing Kit (lengths of thin and thick tubing, ferrules jig & tightening tool), 2 Bleed Screw Seals, and 8 water bath syringe seals.																																				
40.	Filters and fittings: range of several filters from 200 nm to 850 nm. At least 10 filters should be provided covering various applications on Proteins and other chemicals																																				
	Calibration																																				
41.	Necessary standard calibration samples and other tools must be provided.																																				
	Installation and training																																				
42.	The system must be installed, and demonstrated by factory trained service engineers at our site free of charge; Comprehensive on-site training required to our satisfaction.																																				
	Computer with Monitor																																				
43.	The system must have Stopped Flow compatible latest version high performance computer with high end state of the art processor and Windows based operating system, sufficient number of USB port, 8GB RAM, 24-inch Monitor, DVD RW, Mouse, Keyboard etc.																																				
44.	<p>One additional workstation for high end simulation purpose with following specifications.</p> <table border="1"> <tr> <td>Processor</td> <td>2x Intel® Xeon® Processor E5-2650 v2 (20MB L3 Cache, 2.60 GHz)</td> </tr> <tr> <td>Chipset</td> <td>Intel® C602 Chipset</td> </tr> <tr> <td>RAM</td> <td>16GB DDR3-1600MHz ECC RDIMM, Up to 1024GB expandability(16 DIMM Slots)</td> </tr> <tr> <td>RAID</td> <td>On board SATA RAID Controller with RAID 0, 1, & 10 support</td> </tr> <tr> <td>HDD(s)</td> <td>1x1000GB 7200RPM SATA, Upgradeable to 4 * HDDs</td> </tr> <tr> <td>HDD Bays</td> <td>4x 3.5" HDD Bays, 2x 5.25" Peripheral Drive bays, 1x 3.5" Peripheral Drive bay</td> </tr> <tr> <td>ODD</td> <td>8 X (or better) DVD writer</td> </tr> <tr> <td>NIC</td> <td>Integrated Dual Port Gigabit Ethernet(10/100/1000)</td> </tr> <tr> <td>Exp. Slot(s)</td> <td>3 (x16) PCI-E 3.0 slots, 2 (x8) PCI-E 3.0 slots, 1 (x4) PCI-E 3.0 slot</td> </tr> <tr> <td>Ports</td> <td>6*USB 2.0, 4*USB 3.0, 2*RJ45, Line-in / Line-out / Microphone Ports, 1 x Video</td> </tr> <tr> <td>OS</td> <td>Microsoft Windows 8.1 Professional 64 Bit</td> </tr> <tr> <td>OS Certifications</td> <td>Microsoft Windows & Linux Certified</td> </tr> <tr> <td>Management S/W</td> <td>Preloaded System Health Monitoring S/W with Hardware box</td> </tr> <tr> <td>Security</td> <td>Integrated Panel Lock</td> </tr> <tr> <td>Chassis</td> <td>Mini Tower Chassis</td> </tr> <tr> <td>P. Supply</td> <td>100-240V~; 50-60Hz; 10A-6A ,High Efficiency 80 Plus Certified Power Supply</td> </tr> <tr> <td>Keyboard</td> <td>OEM keyboard</td> </tr> <tr> <td>Mouse</td> <td>OEM Optical Mouse</td> </tr> </table>	Processor	2x Intel® Xeon® Processor E5-2650 v2 (20MB L3 Cache, 2.60 GHz)	Chipset	Intel® C602 Chipset	RAM	16GB DDR3-1600MHz ECC RDIMM, Up to 1024GB expandability(16 DIMM Slots)	RAID	On board SATA RAID Controller with RAID 0, 1, & 10 support	HDD(s)	1x1000GB 7200RPM SATA, Upgradeable to 4 * HDDs	HDD Bays	4x 3.5" HDD Bays, 2x 5.25" Peripheral Drive bays, 1x 3.5" Peripheral Drive bay	ODD	8 X (or better) DVD writer	NIC	Integrated Dual Port Gigabit Ethernet(10/100/1000)	Exp. Slot(s)	3 (x16) PCI-E 3.0 slots, 2 (x8) PCI-E 3.0 slots, 1 (x4) PCI-E 3.0 slot	Ports	6*USB 2.0, 4*USB 3.0, 2*RJ45, Line-in / Line-out / Microphone Ports, 1 x Video	OS	Microsoft Windows 8.1 Professional 64 Bit	OS Certifications	Microsoft Windows & Linux Certified	Management S/W	Preloaded System Health Monitoring S/W with Hardware box	Security	Integrated Panel Lock	Chassis	Mini Tower Chassis	P. Supply	100-240V~; 50-60Hz; 10A-6A ,High Efficiency 80 Plus Certified Power Supply	Keyboard	OEM keyboard	Mouse	OEM Optical Mouse
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45.	Nitrogen Cylinders and Nitrogen Flow Meter for purging nitrogen gas with																																				

	regulators should be provided. Inlet and Outlet tubes for nitrogen gas must be provided.
	<i>Warranty and support</i>
46.	Three year full warranty on all parts of the equipment and labour including freight charges. It should comprise of preventive maintenance, sample handling unit consumables, free factory repair service, discounted consumables, accessories and spares etc.
47.	Five years Annual Maintenance Contract (AMC) after warranty.
48.	<p><i>Optional:</i></p> <p><i>The system should be upgradable for the following applications, which can be incorporated in the same system in future:</i></p> <ul style="list-style-type: none"> <i>-Fluorescence Emission Scanning Option</i> <i>-Conductivity Stopped-Flow Cell</i> <i>- FTIR Unit for stopped flow based studies</i>

Compliance statement for the tender specifications

INDIAN INSTITUTE OF TECHNOLOGY MANDI
HIMACHAL PRADESH-175001

Ref:-ENQUIRYNO:-IITMANDI/S&P/PUR-194/2015-16/INTEGRATED STOPPED FLOW
SPECTROSCOPY

Instructions:

1. You have to fill in all columns and ensure that you furnish all the required information accurately and unambiguously.
2. If our specification contains any values, you have to provide your values against the column in the same unit as we have specified.
3. Deviation in values, materials etc. from our specification may be explained in the remarks column

S. NO	Check list of documents/ Undertakings ?	YES/NO	Remarks (Give explanation if answer is No)
1	Is Tender fees attached?		
2	Is EMD attached? (if applicable)		
3	Is the bidder original equipment manufacturer (OEM)/authorised dealer?		
4	If authorised dealer, recent dated certificate to this effect from OEM, attached or not?		
5	Undertaking from OEM regarding technical support & extended warranty period		
6	Validity of 180 days or not?		
7	Undertaking from bidder regarding acceptance of tender terms & conditions		
8	Whether list of reputed users (along with telephone numbers of contact persons) for the past three years specific to the instrument attached.		
9	Whether special educational discount for Indian Institute of Technology (IIT) Mandi (H.P) given.		
10	Whether two weeks training of operator and research students without any charges offered.		
11	Does the instrument complies with all the specifications as per Annexure A. Attach a separate sheet showing compliance with the specifications and explanations thereto if the equipments varies from the requested specifications.		
12	Whether free Installation, Commissioning and Application Training offered.		
13	Whether Three years comprehensive onsite extended warranty offered.		
14	Whether Five Year Annual maintenance after expiry of comprehensive onsite warranty quoted separately as optional.		