

Global Tender Notification for the Procurement of a Research Grade UV-Vis-NIR Spectrophotometer (Last Date for Submission: Tuesday, July 27th, 2021)

Best quotations are invited for the procurement of a **Research Grade UV-Vis-NIR Spectrophotometer** with 60 mm or better integrating sphere along with following technical specifications on C.I.P. Bangalore basis (by **Air Freight** only). Your quotation should mention the terms of delivery, delivery schedule, estimated delivery date, and payment terms. The tender should be submitted in two separate sealed envelopes: one containing the technical bid and the other containing the commercial bid, both of which should reach us, duly signed on or before 17:00 hours on Tuesday 27th July 2021.

The bids should be addressed to:

The Chairman,

Solid State and Structural Chemistry Unit
Indian Institute of Science (IISc)
Bengaluru, India - 560012.

Kind attention: **Dr. Abhishake Mondal**

email: mondal@iisc.ac.in, chair.sscu@iisc.ac.in

The sealed bids should be sent to:

Dr. Abhishake Mondal

Solid State and Structural Chemistry Unit
Indian Institute of Science (IISc)
Bengaluru, India - 560012.

Ph: +91-9932207177

email: mondal@iisc.ac.in

Please enclose a compliance statement along with the technical bid.

Section 1: Bid Schedule

1.	Tender No	
2.	Tender date	12 th July, 2021
3.	Instrument	Research Grade UV-Vis-NIR Spectrophotometer
4.	Tender type	i) Technical bid (part A) ii) Commercial bid (part B)
5.	Place of tender submission	The Chairman, Solid State and Structural Chemistry Unit Indian Institute of Science (IISc) Bengaluru, India – 560012 Kind attention: Dr. Abhishake Mondal
6.	Last date and time of tender submission	27 th July 2021, Tuesday, 17:00 hours
7.	For Further clarification	Dr. Abhishake Mondal Solid State and Structural Chemistry Unit Indian Institute of Science (IISc) Bengaluru, India - 560012. Ph: +91-9932207177 <i>email: mondal@iisc.ac.in</i>

Section 2 - Technical Specification for Research Grade UV-Vis-NIR Spectrophotometer with 60-100 mm Integrating Sphere

Items	Specification
Optics	Dual beam single monochromator (double monochromator if available)
Wavelength range	190 nm to 1600 nm with option of increase up to 2500 nm with integrating sphere
Wavelength accuracy	UV-Vis = ± 0.1 nm, NIR = ± 0.3 nm or better
Wavelength reproducibility	UV-Vis = ± 0.02 nm and in NIR = ± 0.08 nm or better
Spectral Bandwidth	0.1–5.00 nm (UV-vis.); 0.2–20 nm (NIR)
Resolution	UV-Vis = < 0.1 nm and in NIR = < 0.3 nm or better
Stray light (%Transmittance)	Less than 0.001% (220 nm NaI, 370 nm NaNO ₂)
Scan Speed	0.5-4000 nm/min (UV-Vis), ≥ 4000 nm/min (NIR)
Photometric Range	-5 to +5 Abs.
Photometric Accuracy	Less than 0.005 Abs (1.0 Abs)
Light Source(s)	Deuterium and Tungsten Halogen lamp
Noise level	Less than 0.00005 (500 nm)
Baseline Stability	Less than 0.0005 Abs/hr
Baseline flatness	± 0.0008 A without smoothing
Detector	60-100 mm diameter Integrating sphere equipped with high performance PbS detector (option available for PMT or InGaAs based detector)
Operating temperature/humidity	15-35 °C/35-80 % relative humidity (noncondensing)
Photometric Noise	within 0.00004 Abs (0 Abs, 190 nm), within 0.00004 Abs (0 ABS, 500 nm) and within 0.00006 Abs (0 Abs, 1500 nm)
Connectors/essential accessories	All cables and connectors to be provided for full operating the system.

Powder, Film and Liquid sample holder for integrating sphere	Standard (specify the details)
Quartz cuvette and solid sample holder	Three matched pair of 10 mm path length quartz cells with stopper and three solid/powder sample holder
Screw cap quartz cuvette	One pair of airtight screw cap cuvette should provide for sample preparation inside the glove box
Compatible computer systems with 22" monitor	Latest configured Intel Core i7-10700 CPU, 8 GB DDR 4 RAM, 250 GB NVME PCIe SSD HDD, 1 TB SATA HDD, P-4 Cabinet With PSU, Logitech Key Board & Mouse-wired and Dell P Series 22-inch Screen Full HD monitor
Software	<ul style="list-style-type: none"> • Real-time display of measurement with parameters • Specify all the instrument settings before measurement • Save data file, parameter files. • Display settings for graph (line colour, line type etc), scale etc (specify capabilities) • Must run the appropriate baseline correction for each sample to correct for the parameter changes automatically. • Adjust the graph scale or use auto-scale. • Automatically analyse data after measurements (specify capabilities) • Overlay spectral waveforms • Data processing (specify capabilities) • Data conversion (smoothing, differentiation, etc.)
Warranty and AMC	Warranty of minimum 36 months from the date of Installation must be included in the main quotation and a minimum AMC for additional 2 years, 2/3 services per year must be quoted additionally.

Additional requirements:

1. Computer interfaced for control, operation, data collection and analysis should be provided.
2. Instrument must allow standard RS232C or USB communication from Instrument to PC.
3. Instrument should work in Transmission, Reflection and Absorption mode.
4. Diffuse reflectance/ diffuse transmittance of solids, thin films and powder should be provided.
5. Automatic adjustment should be present inside the instrument for automated wavelength accuracy validation and light source position.
6. Thin film holder attachment is required.
7. Options should be provided for future upgradation.
8. Installation and training should be provided on the installation site and should be free of cost.
9. The shipping cost should be included up to IISc.
10. Enough space should be available in the sample compartment to introduce the cryostat for variable temperature UV-Vis measurement. Variable temperature UV-Vis measurement option should be given for future upgradation i.e. introduction of variable temperature cryostat (80 K – 500 K).
11. A set of basic experiments for performing routine checks of acceptable operation with clear instructions to be provided. A standard sample for checking the absorbance should be provided.
12. Complete product catalogue describing all the required basic and optional items should be produced. Submit Technical Compliance with Proof documents.
13. Technical and commercial bids should be submitted separately.

Section 3- Terms and Conditions:

1. All documentations in the tender should be in English.
2. Tender should be submitted in two envelopes (two bid system).
 - a) Technical Bid (Part-A) – Technical bid consisting of all technical details and check list for conformance to technical specifications. The proposal should contain a compliance table with 4 columns in addition to the ones in the technical requirements table that has been included with this RFQ above. The compliance table should include all the items in the same order and format. The first column should describe your compliance in a “Yes” or “No” response. If “No” the second column should state, the extent of deviation. The “third” column should state the reasons for the deviation if any. The fourth column can be used to compare your tool with that of your competitors or provide details as requested in the technical requirements table below. (suppliers who include any indication of prices in the technical bid will be automatically disqualified).
 - b) Commercial Bid (Part-B) – Indicating item wise price for the items mentioned in the technical bid, as per the format of quotation provided in tender, and other commercial terms and conditions.

3. The technical bid and price bid should each be placed in separate sealed covers, superscripting on both the envelopes the tender no. and the due date. Both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscripted with the Tender No, Tender Description & Due Date.
4. The SEALED COVER superscripting tender number / due date & should reach the office of the Chairman, Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore – 560012, India, **Kind attention: Dr. Abhishake Mondal** on or before due date mentioned in the tender notice. In case due date happens to be holiday the tender will be accepted and opened on the next working day. If the quotation cover is not sealed, it will be rejected.
5. Notwithstanding anything specified in this tender document, IISc Bangalore, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:
 - a) To accept OR reject lowest tender or any other tender or all the tenders.
 - b) To accept any tender in full or in part.
 - c) To reject the tender, offer not confirming to the tender terms.
6. Any statutory increase in the taxes and duties subsequent to bidder's offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bangalore subject to the claim being supported by documentary evidence. However, if any decrease takes place the advantage will have to be passed on to IISc, Bangalore.
Any information furnished by the bidder found to be incorrect, either immediately or at a later date, would render the bidder liable to be debarred from tendering/taking up of work in IISc, Bangalore.
7. The bidder will provide the prerequisite installation requirement of the equipment along with the technical bid.
8. The vendor is responsible for the installation of the system at the institute.
9. The price quotation should include the cost of installation and training of potential users.
10. GST must be not more than 5% (Institute will provide you GST exemption certificate).
11. The system should be provided with at least three years of warranty, on all parts and labor, from the date of installation.
12. Imported items should be shipped on C.I.P. Bangalore basis (by **Air Freight** only) and all components and accessories indicating component-wise and itemized breakup. Provide certificates for country origin of manufacturing for each line items. Price of every line item in the commercial bid should be quoted along with the total quoted price for the instrument to be operational (installed and ready to use) in our facility.
13. The vendor should have qualified technical service personnel for the equipment based in India and should assure a response time of <48 hours.
14. The Bidder should have supplied similar equipment in Central Universities preferably in centrally Funded Technical Institutes (IITs, JNCASR, IISc, IISERs, NIT). Vendor must provide a user list (with contact details including emails and phone numbers) of at least at least five identical instruments in IISc, JNCASR, IITs, IISERs, NITs with above mentioned specifications. Details of such systems should be provided.

15. The lead-time for the delivery of the equipment should not be more than 6 months from the date of receipt of our purchase order.
16. The indenter reserves the right to withhold placement of final order. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.
17. Wherever requested data must be supplied along with technical compliance documents. Technical bids without supporting data will be deemed as technically non-compliant.
18. All guaranteed specifications may have to be demonstrated at the time of installation. Any necessary standard samples for that purpose should be brought by the service engineers.
19. Printed literature and published papers in support of all compliance with the prescribed specifications may be provided.
20. The vendor must provide a compliance statement in a tabular form concerning each technical specification in the tender document duly supported by the manufacturer's literature and published papers. Any other claim will not be accepted and may lead to rejection of the bid.
21. Technical evaluation by the institute may include a demonstration to verify functionalities and capabilities of the system quoted. The institute reserves the right to provide samples after opening the technical bids for verification of promised specifications. Any discrepancy between the promised specifications and measurements will be deemed as technical non-compliance.
- 22. The vendor must quote for a non-comprehensive AMC price beyond the three-year warranty, with a price lock in for 3 years beyond the standard 3-year warranty period, 2/3 services per year should be included in the AMC. Annual Maintenance Contract should be clearly mentioned after warranty period.**
23. The quote should also include additional spares sufficient for 3-years.
24. The payment will be through FOR-IISc Bangalore only.
25. Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore, India.

Annexure 1:

Details of the Bidder: The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

Sr. No.	Type	Details
1.	Name of the Bidder	
2.	Nature of Bidder (Attach attested copy of Certificate of Incorporation/ Partnership Deed)	
3.	Registration No/ Trade License, (attach attested copy)	
4.	Registered Office Address	
5.	Address for communication	
6.	Contact person- Name and Designation	
7.	Telephone No	
8.	Email ID	
9.	Website	
10.	PAN No. (attach copy)	
11.	GST No. (attach copy)	

Signature of the Bidder

Name:
Designation, Seal

Date:

Annexure 2:

Declaration regarding experience

To,

The Chairman,
Solid State and Structural Chemistry Unit,
Indian Institute of Science,
Bangalore – 560012,
India

Kind attention: **Dr. Abhishake Mondal**

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and installation of Research Grade UV-Vis-NIR Spectrophotometer

Sir,

I have carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has ---- years of experience in supplying and installing Research Grade UV-Vis-NIR Spectrophotometer.

(Signature of the Bidder)

Printed Name Designation, Seal

Date:

Annexure 3:

Declaration of track record

To,

The Chairman,
Solid State and Structural Chemistry Unit,
Indian Institute of Science,
Bangalore – 560012,
India
Kind attention: **Dr. Abhishake Mondal**

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and installation of Research Grade UV-Vis-NIR Spectrophotometer

Sir,

I have carefully gone through the Terms & Conditions contained in the above referred tender.

I hereby declare that my company / firm is not currently debarred / blacklisted by any Government / Semi-Government organizations / institutions in India or abroad. I further certify that I am competent officer in my company / firm to make this declaration.

OR

I declare the following:

Sr. No.	Country in which the company is debarred/ blacklisted / having pending case	Blacklisted / debarred by Government / Semi Government Organizations or Institutions / having pending case	Reason	Time Period

(Note: In case the company / firm was blacklisted previously, please provide the details regarding period for which the company / firm was blacklisted and the reason/s for the same).

(Signature of the Bidder)

Printed Name Designation, Seal

Date:

Annexure 4:

Declaration of acceptance of terms and conditions

To,

The Chairman,
Solid State and Structural Chemistry Unit,
Indian Institute of Science,
Bangalore – 560012,
India
Kind attention: **Dr. Abhishake Mondal**

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and installation of Research Grade UV-Vis-NIR Spectrophotometer

Sir,

I have carefully gone through the Terms & Conditions contained in the above referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully

(Signature of the Bidder)

Name:

Designation, Seal:

Date:

Section 5: Checklist

The following items must be checked before the bid is submitted.

1. Sealed Envelope "A": Technical Bid
Technical bid (each page signed by the authorized signatory and sealed) with the below annexures:
 - a. Annexure 1: Bidders details
 - b. Annexure 2: Declaration regarding experience
 - c. Annexure 3: Declaration of track record
 - d. Annexure 4: Declaration of acceptance of terms and conditions
 - e. Annexure 5: Details of item quoted.

2. Sealed Envelope "B": Commercial Bid

Your quotation must be submitted in two separate sealed envelopes: Technical Bid (Envelope A) and Commercial Bid (Envelope B) super scribing on both the envelopes with Tender No. and due date and both in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No., Tender description & Due Date.