Indian Institute of Technology Kharagpur, an Institute of National Importance, invites sealed bids from reputed manufacturers or their authorized Distributors / Dealers, (foreign firms or their Indian Representative company) who have adequate credential for supply/installation UV-VIS SPECTROPHOTOMETER for the items as per the Annexure –I for the Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur, India. All these experimental units (standalone complete setups) are required for dedicated use in UG and PG laboratory courses.

Interested parties may submit their sealed bids under Two-cover system as per Technical Specifications given at Annexure I, and General Terms & Conditions and Special instructions given at Annexure II and Annexure III. Bidders are required to submit their Details in the format given at Annexure IV along with their technical bids. They are also required to submit a signed Declaration in the format given at Annexure V. A Checklist and Compliance statement against each item of Annexure I - III severally & individually shall also be submitted. Kindly refer to the Institute website [link: Tenders] for complete tender details.

The tender be sent in a sealed packet, containing two separate sealed envelopes (one each for Technical Bid and Price Bid) along with prescribed tender fee duly superscripted with Tender Notice No., dated, to the Office of the Head, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur, P.O. Kharagpur Technology, PIN 721 302, West Bengal, India on or before 17-08-2020 by 11.00 am.

For any query pertaining to this bid document, communication be address to Dr. Tarun Kumar Kundu, Professor, Department of Metallurgical & Materials Engineering, Indian Institute of Technology Kharagpur, Kharagpur–721302, West Bengal, India [Ph: +91 3222 283296 (O), +91 3222 283297 (R)].

The technical bid will be evaluated first and price bids will be opened only in respect of those OEMs/Vendors, who are found technically qualified after evaluation of Technical bids.

The Technical bids will be opened on at 17.08.2020 at 12 pm. in the Office of Head, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur.

Copy to :
1. CPPP
2. Notice Board
3. Head, Department of Metallurgical and Materials Engineering
# Annexure I

## SPECIFICATION FOR UV-VIS SPECTROPHOTOMETER

**SUPPLY, INSTALLATION AND COMMISSIONING OF MICROPROCESSOR BASED PC-CONTROLLED DOUBLE BEAM UV VISIBLE SPECTROPHOTOMETER**

UV-VIS spectrophotometer with standalone display and standard UV-solution program software enabled automatic calibration and self-diagnostic function.

- **Optical system**: True Symmetrical Double Beam with 2 detector
- **Grating**: stigmatic concave diffraction grating with monochromator.
- **It should be aberration-free bright optics grooving should be supported by ruling engine for permanent use.**
- **Wavelength range**: <=190 to >=1100 nm
- **Wavelength accuracy**: <= ±0.3nm (at 656.1, 486.0nm)
- **Spectral band pass**: 1.5 nm
- **Stray light**: 0.05% or less (220nm for NaI, 340nm for NaNO2)
- **Noise level**: ± 0.00015Abs or better
- **Baseline flatness**: ± 0.0006 Abs or better (within 200 to 950 nm)
- **Baseline stability**: 0.0003 Abs/h
- **Wavelength setting repeatability**: <= +/-0.1 nm
- **Photometric accuracy and repeatability**: should be certified according to NIST SRM 930
- **Photometric range**: –3 to 3Abs, 0 to 300%T

Photometric accuracy: ±0.002Abs (certified according to NIST SRM 930) ±0.3%T
- **Photometric repeatability**: ±0.001Abs (0 to 0.5Abs) (certified according to NIST SRM 930) ±0.1%T
- **Response**: fast, standard, slow
- **Wavelength scan speed**: 10 to 3600 nm/min
- **Light source**: Deuterium Lamp, Tungsten Iodide Lamp
- **Light source changeover**: Automatic switchover interlocked with wavelength.
- **Centronics interface and RS-232C interface**

Software function/application includes:
- Measurement mode: photometry, wavelength scan, time scan, multiple wavelength Ratio (260 / 280)
- Measurement can be performed while automatically shifting measuring wavelength to a maximum of 6 wavelengths. This is convenient when only measured data at each wavelength is desired.
- **Working curve type**: Linear, quadratic, polygonal line, K factor input.
- **Calculation of correlation coefficient**
- **Concentration unit input**
- **Kinetic assay**
- Spectrum and working curve printout
- Spectrum display
- Peak/valley detection/Tracing/Scale expansion/contraction/Smoothing
- Differentiation
- Area calculation
- Fundamental arithmetic calculations between spectra
- Data saving
- Validation function
- Automatic wavelength calibration
- Lamp ignition time

Provide list of accessories and upgrading options with price in financial offer.

2 nos. quartz cuvette, 10mm pathlength,3.5ml capacity, a desktop with i7 processor, 16GB RAM and 1TB hard drive should be supplied by the vendor.

- **Special Warranty:** The main equipment should have warranty for two years and replacement warranty for manufacturing defects

### GENERAL TERMS and CONDITIONS

1. Manufacturer/Indian Agents of OEM should submit two-parts bid, Technical and Commercial bid in separate sealed envelopes. The technical bid should have a copy of commercial bid with prices masked. Modules to be supplied by the Indian Agent from Indigenous sources must be with ISO 9001 or equivalent certification and unit prices of such modules must be given in Rupees. The main equipment as well as the modules should have warranty for one year and replacement warranty for manufacturing defects.

2. Only those manufacturers/their Indian Agents are eligible to quote who have supplied and installed at least 5 such equipment in India during the past 5 years. IIT Kharagpur reserves the right to verify confidentially the information in this regard from the users)
   
   (a) Provide the name of the Indian Agent who will be responsible for maintaining the equipment during the entire period under warranty and CMC
   
   (b) Provide names of service engineer who are posted in India; the service engineers should have been trained at Original Equipment Manufacturers (OEM’s) own unit.

3. While submitting the technical bid, the company must undertake to ensure continued availability of adequate number of technically qualified Service Engineers for the Equipment during the period of supply, installation and throughout the warranty period.

4. **Period of validity:** Bids shall remain valid for acceptance for a period of *Four months* (120 days) from the date of opening of Price Bids.

5. Conditional offer will not be accepted. Quotations from vendors quoting both items would be preferred. Price bid should preferably be in INR to prevent price escalation due to currency fluctuation OR if quoted in Foreign Currency the INR value on the date of Price bid opening would be fixed and price in foreign currency should be adjusted to fit that value in case of fluctuation.

6. **Late Tenders:** Tender received after the due date and time of submission as mentioned below shall not be accepted.

7. **Indian Agents of Bidders or Indian Agents who are bidding on behalf of their principals are to enclose the following documents:** Current GST certificates and PAN No must be enclosed

8. Name and Address, phone and e-mail address of minimum five clients, out of which at least One should be in India to whom such/similar equipment have been supplied during the past five years should be mentioned.

All Tenders (unless otherwise specified) are to be submitted/handed over to **Dr. Tarun Kumar Kundu**, Professor, Department of Metallurgical & Materials Engineering, Indian Institute of Technology Kharagpur, Kharagpur–721302, West Bengal, India [Ph: +91 3222 283296 (O), +91 3222 283297 (R)]
(8) The person attending the bid opening session should be delegated with appropriate Power of Attorney (duly endorsed by a Notary Public) by the Chief Executive Officer of the Company to sign such documents. Only two persons on behalf of each Company will be allowed to participate/attend the Bid opening session.

(9) Bid once submitted shall be the property of IIT Kharagpur and shall not be returned to the vendor at any time.

(10) A bid submitted with false information will not only be rejected but the vendor may also be debarred from participation in future tendering process.

(11) Canvassing in any form not only invites disqualification in this tender but may also result in debarring the vendor from participation in the future tendering process.

(12) The vendor may be required to give presentation. Demonstration on the systems offered where vendor has installed and integrated similar solution may need to be arranged by the vendor at their own cost.

(13) Materials such as pipe, bricks, sand, stone-chips, cement, paint etc. if required for the installation of the above item and other fixation work will have to be supplied by vendor free of cost.

(14) The Company must be able to provide an all-inclusive Comprehensive Annual Maintenance Contract for the equipment beyond the Warranty Period. The Institute would like to enter into Comprehensive Maintenance Contract beyond initial warranty Period with the manufacturer.

(15) The installation must be completed within 15 days from the date of receipt by this institute. The presence of Service Engineer from the principal at the time of installation is essential.

(16) The Company must ensure the Institute about the 95% uptime during the operational period at the Institute with suitable spares and consumable at IIT Kharagpur. However, IIT Kharagpur may allow maximum time of 48 hours for the consumable available in India and for other items maximum of 05 working days from the date of lodging of report. A penalty of Rs. 5000/- (five thousand rupees only) per day shall be imposed for delay beyond 5 days. Similar penalty will be applicable for installation delay beyond 15 days from the receipt of the instrument at site.

(17) Change of Indian Agent: Prior intimation is required for this change. The new Agent should undertake to submit fresh performance guarantee first.
ANNEXURE – III

INSTRUCTIONS & SPECIAL CONDITIONS
(To be returned by Tenderer along with the Tender duly signed)

1. GENERAL:
Tenderer(s), who are Indian Agents of OEMs should furnish a clear declaration as follows:
We declare that I am/we are Accredited Agents of the suppliers aboard;

2. DEVIAITON FROM SPECIFICATIONS:
It is in the interest of the tenderer to study the specifications in the tender schedule thoroughly before
quoting so that, if the tenderer makes any deviations, the same are prominently brought out in the body
of the tender. If you need to add any optional items to your system in order to meet our specifications,
you are requested to quote for the total including the option required to suit our requirements; otherwise,
your tender will not be considered at all.

3. PRICE:
For imported items both F.O.B. & C.I.F. Kolkata/F.O.R IIT Kharagpur price by Air to be quoted. The price
should be without Customs Duty and Excise Duty since IIT Kharagpur is exempted from the payment of
Customs & Excise Duties. The Institute if required will provide certificates for Import Items: The order
acknowledgement should be issued by Fax within 3 days, and the item should be airlifted within 30 days
from the date of receipt of the Letter of Credit copy / copy of DD, as the case may be.
   (i) Agency Commission, if any will be paid to the Indian agents in Rupees on receipt of the
equipment and after satisfactory installation. Agency Commission will not be paid in foreign
currency under any circumstances.
   (ii) The unit prices should be for the same unit as indicated in the Schedule to tender enquiry
and not for any other unit.
   (iii) Prices quoted should be for supply, installation and commissioning at I.I.T. Kharagpur.
   (iv) Discount, if any, should be indicated separately / prominently.
   (v) Offers should normally be on fixed and firm price basis. Any clause making price variation
will not be acceptable.
   (vi) Where tenderer intends to quote in Indian Rupees, for imported items, the price should be
quoted “FOR Destination” basis. Offer should be on “High Sea Sales” basis. No sales tax
can be charged. Customs Duty applicable against Declaration in Terms of Government of
India Notification No.51/96-Customs dated 23.07.96 will be paid. Vendor will arrange
payment of customs duty during clearance and the same will be reimbursed at actual against
proper documents. Way Bill will be issued on request. Seller has to undertake the
responsibilities of customs clearance. All necessary supporting documents will be provided
by the IIT Kharagpur. An agreement can be made in this regard, if the seller wishes, before
customs clearance.

4. TRANSIT INSURANCE:
The Purchaser will not pay separately for Transit Insurance.

5. PAYMENT:
   i) Payment for indigenous items and also imported items quoted in Indian Rupees will be made
only after completion of supply, installation and commissioning of the Systems to the entire
satisfaction of the Purchaser. No Advance Payment will be made for Indigenous Purchase.
   ii) Where items are imported and the payment is desired to be made to their foreign Principals
directly, the same will be made against Irrevocable Letter of Credit only.

6. TENDERERS SHALL SUBMIT ALONG WITH THEIR TENDER:
   i) Complete address and tele links for contact persons in principals and Indian agent offices
dealing with this purchase.
   ii) Name and full address of the OEM’s Banker and their swift code.
   iii) Proof of having ISO 9001 or other equivalent certification given by appropriate authorities.
7. EARNEST MONEY DEPOSIT: TENDERER MUST SUBMIT AN EMD OF Rs. 21000/- (REFUNDABLE) IN THE FORM OF BANK DRAFT/BANK GUARANTEE IN FAVOUR OF “INDIAN INSTITUTE OF TECHNOLOGY, Kharagpur”. It should be placed in the cover containing of Technical Bid.

8. GUARANTEE:
The tenderer has to declare that the goods sold to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications.

9. JURISDICTION:
All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of Tender is issued i.e. Jurisdiction of KOLKATA HIGH COURT. Acceptance to this effect is also necessary at the time of opening of Technical Bid.

10. ACKNOWLEDMENT:
It is hereby acknowledged that we have gone through all the points listed under “Instructions & Special Conditions” outlined above, and those in the accompanying note on “Important Conditions”, and we agree to abide by them under the penalty of permanent disqualification for Tender participation and for related penal actions for non-abidance of the conditions.

11. Interested vendors must be able to supply adequate spares and consumable during one year warranty. Vendor should also ensure trouble free service and performance for another two years beyond one year Comprehensive Warranty Period with adequate spares and accessories.

SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE COMPANY WITH DATE

NOTE: ONE AGENT CANNOT REPRESENT TWO SUPPLIERS OR QUOTE ON THEIR BEHALF AT ONE TIME. In case of import all the particulars required for opening Letter of Credit (L/C) should be furnished in clear terms. After opening of L/C, based on our tender, no more request for amendment of L/C will be entertained. Total price including supply, installation and commissioning at I.I.T., Kharagpur, should be quoted. The cost of items that may be supplied from indigenous resources and also installation part if installation is done by Indian Agents should be stated in Indian Rupees.

1. In case of Import, bidders are requested to quote FOB price mentioning Freight & Insurance charges separately. No Ex-Works pricing is considered.
2. Warranty should be valid for one year for all items including third party items.
3. Quotations should be submitted in Separate Sealed Cover (with Sealing Wax). The quotation should be in typed format. No manual entries are allowed and any manual entry will entail rejection at the opening stage itself.
4. Before submitting vendor should ensure that they have submitted the following in the technical bid the documents as mentioned hereunder: Technical Literature, Specification documents, Point-by-point Compliance Statement, General Terms & Conditions, Acceptance of Kolkata High Court Jurisdiction,

The Commercial bid shall have all the commercial documents, agreements and Price bid. Prices should be given component wise to enable the Institute to decide the final configuration.

Important:
1. The institute may accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid. The Institute at its discretion may change the quantity/upgrade the criteria/drop any item or part thereof at any time before placing the Purchase Order.
2. In case of any dispute, the decision of the Registrar of this Institute shall be final and binding on the Bidders.
3. For any query pertaining to this Bid document correspondence may be addressed to :-

Dr. Tarun Kumar Kundu, Professor, Department of Metallurgical & Materials Engineering, Indian Institute of Technology Kharagpur, Kharagpur–721302, West Bengal, India [Ph: +91 3222 283296 (O), +91 3222 283297 (R)].

N.B.: In case the due date for opening tender happens to be a holiday, the same will be opened on the next working day. The timings will however remain unchanged. Please Note that the Institute remains closed on Saturday & Sunday.
TECHNICAL BID DOCUMENT

FORMAT TO BE FILLED BY THE MANUFACTURERS / INDIAN AGENTS (ON BEHALF OF THEIR FOREIGN PRINCIPLES) OR THEIR AUTHORIZED COUNTRY DISTRIBUTORS/ REPRESENTING DEALERS/ REGIONAL AGENCIES, SUBMITTING TENDER FOR SUPPLY OF FOR IIT KHARAGPUR

1. Name of the Tenderer : 

2. Status of the Tenderer (attach documents, if registered company/partnership/proprietorship) :

3. Whether OEM/representing foreign principle (attach copy of certificate/authorization) :

4. Details of key top official/authorized official (attach details) :

5. Details of tie-ups for supply/services, if any (Attach details, agreements, escalation matrix) :

6. Income Tax and Service Tax returns of previous three assessment year (copy) :

7. Name of the vendor's three largest clients, to whom similar products and services were extended. :

8. Current list/address of clients where similar material has been supplied and successfully working :

9. Income Tax Permanent A/c No. (attach copy) :

10. Details of EMD/Bank Draft No., issuing branch and date :

Certified that all above information are correct to the best of my/our information, knowledge and belief.

-----------------------------------------------------
Dated signature & seal of the Authorized person of OEM/Vendor

NOTE: This is to be submitted in a separate sealed envelope super scribing “TECHNICAL BID”, Notice inviting Tender No. IIT/MME/Plan/EQ/TKK/20-21/01, dated 08.07.2020 and name of the bidder. All technical documents like literature, catalogues etc., are to be put in the same envelope. Price bid of that company/firm only will be opened which do technically qualify, for further consideration. Attach all relevant documents in the same serial order as above, properly indexed, duly signed and sealed.
Annexure V

DECLARATION

1. I, ------------------------------------------------ Son / Daughter of Shri -----------------------
   ------------------------------------------------- Proprietor/Partner/CEO/MD/Director/
   Authorized Signatory of M/s. ------------------------------------------------- am
   competent to sign this declaration and execute this tender document.

   (i) I have carefully read and understood all the terms and conditions of the tender
   and hereby convey my acceptance of the same.

   (ii) The information/ documents furnished along with the above application are true
   and authentic to the best of my knowledge and belief.

   (iii) I/ we/ am are well aware of the fact that furnishing of any false
   information/ fabricated document would lead to rejection of my tender at any
   stage besides liabilities towards prosecution under appropriate law.

   (iv) Each page of the tender document and papers submitted by my
   Company is authenticated, sealed and signed, and I take full responsibility
   for the entire documents submitted.

   ---------------------------------------------------------------
   Signature of the Authorized Person

   Date: -------------------------- Full Name : --------------------------

   Place: -------------------------- Company Seal : --------------------------