



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@iitism.ac.in || Website : www.iitism.ac.in

NIT No. ESE-500514-2017-18

Date: 16 May 2018

NOTICE INVITING TENDER (N.I.T.)

Subject: NIT for Supply & Installation of
UV-VIS Spectrophotometer along with accessories – 01 No

Indian Institute of Technology (Indian School of Mines), Dhanbad invites tenders/ quotations (in two-bid system) for Supply and Installation of **UV-VIS Spectrophotometer along with accessories – 01 No** in our ESE Department. *Particulars of tender cost, earnest money deposit and date & time of submission and opening of tenders are as under:*

S No	Items	Particulars
1.	Tender cost	Rs. 1,000.00 (Rupees One Thousand only)
2.	Earnest money deposit	Rs. 22,000.00 (Rupees Twenty Two Thousand only)
4.	Date and time for submission of bids	19.06.2018 at 1:00 P.M.
5.	Date and time of opening of bids	19.06.2018 at 4.00 P.M.

Tender document containing following document is available on websites of Central Public Procurement Portal (<https://eprocure.gov.in>) and IIT(ISM), Dhanbad (www.iitism.ac.in), which may kindly be referred :-

1. Technical specifications as per Annexure-I
2. General terms & condition as per Annexure-II
3. Compliance Statement as per Annexure –III
4. Financial Bid as per Annexure- IV

Encl: As above

Deputy Registrar



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Annexure-I

Sl. No.	Item	Quantity
1.	UV-VIS Spectrophotometer along with accessories	01 No.

Technical Specification of UV-VIS Spectrophotometer along with accessories

SPECIFICATIONS for UV-VIS SPECTROPHOTOMETER		
GENERAL SPECIFICATION		
The UV-Visible Spectrophotometer should have potential to do wide range of quantitative and qualitative analysis of water, soil, sand, and solid samples. To measure accurately Absorbance, %T and Concentration with entry of Concentration Factor or the Concentration of the standard. Units such as $\mu\text{g/mL}$, mg/mL , mg/L , g/L , ppb, ppm, %, of samples. It must also able to calculate kinetics.		
TECHNICAL SPECIFICATION		
S. No.	Item	Specification
1.	Photometric system	Double beam optics
2.	Setting wavelength range	185–1400 nm
3.	Photometric system	Czerny-Turner or equivalent
4.	Wavelength accuracy	$\pm 0.1 \text{ nm}$ (656.1 nm D2), $\pm 0.3 \text{ nm}$ (all range)
5.	Wavelength repeatability	± 0.05 to $\pm 0.1 \text{ nm}$
6.	Wavelength slew rate	About 14000 nm/min
7.	Wavelength scanning speed	0.5 to 4,000 nm/min
8.	Lamp interchange wavelength	Auto switching synchronized with wavelength; switching range selectable between 290 and 370 nm (0.1 nm units)
9.	Spectral bandwidth/Variable slit width	0.1/0.2/0.5/1/2/5 nm
10.	Resolution	$\pm 0.1 \text{ nm}$ (or) lower
11.	Stray light	Max. 0.005 % (220 nm, NaI)
		Max. 0.005 % (340, 370 nm, NaNO_2)
		Max. 1 % (198 nm, KCl)
12.	Photometric range	Absorbance: –5 to 5 Abs
		Transmittance, reflectance: 0 to 100000 %
13.	Photometric accuracy	Max $\pm 0.002 \text{ Abs}$ (0.5 Abs)
		Max $\pm 0.003 \text{ Abs}$ (1 Abs)
		Max $\pm 0.006 \text{ Abs}$ (2 Abs)
		$\pm 0.3 \%T$
		(Measured using NIST930D/NIST1930 or equivalent filter)
14.	Photometric repeatability	Max $\pm 0.001 \text{ Abs}$ (0.5 Abs)
		Max $\pm 0.001 \text{ Abs}$ (1 Abs)
		Max $\pm 0.003 \text{ Abs}$ (2 Abs)
		$\pm 0.1 \%T$



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15.	Photometric modes	Absorbance (Abs.), transmittance (%), reflectance (%), energy (E)
16.	Noise level	0.00003 Abs RMS (500 nm) to 0.00005 Abs (700 nm)
17.	Baseline flatness	Less than ± 0.0003 to 0.0006 Abs (200–860 nm), 1 hour after light source is turned ON
18.	Baseline stability	less than 0.0002 to 0.0003 Abs/h (700 nm), 1 hour after light source is turned ON
19.	Operating temperature	15°C to 35°C
20.	Operating humidity	30 % to 80 % (no condensation, less than 70 % above 30 °C)
21.	Power requirements	100 to 240 VAC, 50/60 Hz
22.	Power consumption	170 VA
23.	Linearity range of a typical standard graph must be at least	up to 3.0A

DATA WORKSTATION

1	To be supplied with a data workstation complete with software, with latest computer workstation (minimum 6GB RAM)
2	It should allow spectrum scanning , Wavelength programming, kinetic time-based studies, flexible quantitative analysis and methods for general chemical, environmental and biochemical analysis
3	Should have complete module for all the possible spectroscopy based analysis

STANDARD ACCESSORIES

1	Should come with a pair of quartz cell cuvette (Standard) , powder sample holder set (Standard), solid sample holder (Standard) and thin film holder(Standard)
2	Should include an Integrating Sphere of minimum 50mm diameter to measure both diffuse transmittance and diffuse reflectance of samples
3	one (1) unit of of stabilizer and power back up to meet the power requirement of the equipment

WARRANTY

1	Standard Warranty: 03 Year (Must include in the cost of instrument)
2	Extended Warranty: 02 Year (Price for extended warranty in separate head)



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Annexure-II

GENERAL TERMS & CONDITIONS

NIT No. ESE-500514-17-18

Sealed tenders in **Two-bid system** are invited from manufacturers/ their authorized dealers/ agents for supply and installation in IIT (ISM) Dhanbad of items specified in *Annexure-I*.

1. Offer should be submitted under **TWO-BID** system in two separate sealed covers i.e. “**Techno-commercial bid**” and “**Price bid**”.
2. *a) In a tender, either the OEM/principal or Indian agent on behalf of the principle/ OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.*
b) If an agent submit bid on behalf of the principle/ OEM, the same agent shall not submit a bid on behalf of another principle/ OEM in the same tender for the same item/product.
c) Indian Agent must submit authorization letter for submitted bid for this NIT.
3. **Techno-commercial Bid:** should contain the following documents/information:
 - a. **Tender Cost:** Intending tenderers may **download** the complete set of tender document from CPP Portal (<https://eprocure.gov.in>) and IIT (ISM) website (www.iitism.ac.in) and submit the same duly signed on all pages by the tenderers along with demand draft for tender cost. Cost of the tender document is to be paid by way of an A/C payee demand draft for an amount indicated in Page No 01 and drawn in favor of Registrar, IIT(ISM) Dhanbad and payable at SBI, IIT(ISM) campus branch or any other Bank/ Branch located in Dhanbad. Tender cost is non-refundable and non-transferable.
 - b. **Bid Security/Earnest Money Deposit (EMD):** EMD should be submitted in form of A/C payee demand draft drawn in favor of Registrar, IIT(ISM) and payable at Dhanbad (Jharkhand). EMD may be forfeited as per rules.
 - c. Tenders without payment of tender cost and EMD will not be considered, unless the tenderer is exempt from such payment under Central Govt. Rules/ Regulations and General Financial Rules (GFR) as amended from time to time and claims such exemption along with relevant and valid supporting documents.
 - d. All relevant technical specifications/details of offered items, drawings, printed technical leaflets, and commercial details which are necessary to ensure that offer is complete in all respects should be attached with the technical bid documents.
 - e. A ‘Compliance Statement’ along with a certificate and duly signed that the tenderer satisfies the technical requirements given in *Annexure-I*. The said statement should be in a tabular form as per *Annexure-III*.
 - f. IIT(ISM) does not bind itself to offer any explanation to those bidders whose Technical Bids have not been found acceptable by the Evaluation Committee of the Institute.
 - g. Interim queries regarding status of the tender/bid or tendering process will not be entertained.
4. **Further the following documents have to be furnished by the tenderers:**
 - a) Self attested copies of credentials in support of capability to undertake the supply/work.
 - b) Technical literature/catalogue with the detail specification of the material
 - c) Satisfactory performance certificate from their customers for same/similar supply/service must be enclosed alongwith the technical bid.
 - d) Income tax PAN, Sales tax regn. Nos., GST, & Bank A/c no.,(alongwith name of bank & branch, IFSC etc., cancelled cheque.
5. **Price should be quoted on FOR, IIT(ISM) Dhanbad basis.** The packing, forwarding, freight and transit insurance charges, if any must be included in the price and should not be claimed separately. Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price.



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Price bids of only technically qualified tenderers shall be opened in their presence on a pre-notified date and time.

6. **Educational discount, if any, should be clearly mentioned.**
7. IIT(ISM) is entitled for Custom/Excise Duty Exemption under Govt of India notifications and is registered with DSIR, Govt of India for this purpose. This may be taken into consideration while quoting minimum possible rate. IIT(ISM) will not pay any extra custom duty other than duty exemption certificate. It will be sole responsibility of the successful bidder to get the required certificate from IIT(ISM), on time.
8. IIT (ISM) does not issue form 'C' or 'D' for concessional Sales tax/VAT. Hence, full rate of sales tax as applicable to educational institutions against the form of certificate should be indicated.
9. **Warranty:** Minimum three (03) years onsite comprehensive from the date of installation and commissioning at the site.
10. **Validity:** Offer must be valid for a period of **240 days** from the date of opening of tender
11. **Performance Security (Performance Bank Guarantee):** Performance Security has to be submitted by the successful bidder within one week from the date of the purchase order. Performance Security will be 10% of the ordered value. Performance Security may be furnished in the form of Bank Guarantee/Demand Draft from any Nationalized Bank and Performance security should remain valid for a period of two months beyond the date of completion of all contractual obligations. No interest will be payable by IIT (ISM) Dhanbad on the Performance Security deposited. In case the contractor fails to provide satisfactory service, the Performance Security submitted by the bidder(s) is liable to be forfeited. An undertaking to this is to be submitted.
12. **Delivery & installation Period and Liquidated Damage:** The ordered materials/work must be supplied & installed /completed in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week or part thereof for the delayed period subject to maximum of 5% of the total value of the order shall be deducted from the invoice of the supplier.
13. **Inspection:** Inspection shall be carried out at IIT (ISM), Dhanbad after arrival of the materials and decision of the Institute in this regard shall be final and binding.
14. **Rejection and Replacement:** Rejection, if any, shall be notified to the supplier after proper inspection of the material/workmanship. Rejected materials/work is to be removed by the supplier at its own risk and cost from IIT (ISM). Campus within 14 days of intimation of rejection. Defective Supplies are required to be replaced within 15 days of the removal of the rejected materials/work, failing which IIT(ISM) will dispose the rejected/defective materials at the risk and cost of the bidder.
15. **Risk Purchase:** IIT (ISM) shall be at liberty to realize from the supplier the differential amount, if any, which it shall have to incur on purchase of the material/work at higher price(s) from elsewhere in the market, if the supplier, due to their fault, fails to supply the ordered quality and quantity of the material/work within the stipulated time.
16. Conditional offer will not be accepted.
17. **Payment:** Payment towards successful execution of the Purchase Order will be made within 30-45 days after satisfactory supply, inspection, installation/commissioning & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate and Performance Bank Guarantee followed by its verification. The invoice should be duly certified by the Head of Deptt to which supply is made or any other IIT (ISM) official authorized for this purpose.
18. Bidders full address for correspondence and name address of the beneficiary's banker should be clearly indicated in the offer. **(Institute does not release any advance payment or Part Payment.**
19. **Country of origin and port of shipment should be stated** in your offer clearly.
20. Name and address of Indian Agent, percentage of agency commission, if any and role of the Agent with respect to the subject supplies and a statement thereon that "Agency Commission is included in the



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21. FOR IIT(ISM), Dhanbad price of the offer" should be clearly indicated in your offer.
22. Earliest/ expected delivery period should be clearly indicated.
23. Packing should be suitable for 'Air freight'.
24. Please note that no part shipment/transshipment/third party shipment is acceptable to us.
25. Last date for receipt of tenders and date & time for opening of the same is given in page- 01. The tenders will be opened in the presence of representatives of tenderers present. ***In the event last date is a holiday/declared as a holiday, next working date will be the last date for submission/ opening of tender.***
26. Tender should be submitted in a sealed cover/envelope and must be superscribed as under:
 - i) "Tender No. **ESE-500514-17-18** Date : **16 May 2018** (Supply & Installation of UV-VIS Spectrophotometer along with accessories – 01 No (Due Date **19.06.2018** at **4.00 P.M.**)).
 - ii) All tender shall be received upto to the time and date as stated in the tender notice, after which no tender shall be accepted in any circumstances. IIT(ISM) may extend the bid submission or opening date & time.
 - iii) All tender must be sent by Registered Post/Speed Post/Courier along with Courier receipt, during IIT (ISM) working days only (i.e. Monday to Friday). Please note that no hand delivery of tender will be received at any circumstances.
27. The Institute at its discretion may change the quantity/quality/parameters/upgrade the criteria/drop any item(s) or part thereof at any time before placing the order. In case of any dispute, the decision of IIT(ISM) shall be final and binding on the bidders/tenderers.
28. The Institute reserves the right to 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.
29. All the bidders, those are interested to participate in this bid, must have to submit the technical specification of their bid in MS-Word Format in a CD with the technical bid. The CD must be marked with the NIT No. and submission deadline and must should be in sealed envelope.
30. IIT(ISM) reserves the right to cancel or modify or alter the purchase order at any stage of the procurement process.

ABOVE TERMS AND CONDITIONS OF THE NIT ARE ACCEPTED

1	Name and address of the tenderer	
2	Telecom nos. of the tenderer i.e. phone fax, & email id.	
3	Signature, name & designation of the person signing on behalf of the tenderer & his/her office seal	
4.	Name & designation of the contact person & his phone/mobile no.	



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Annexure-III

Compliance Statement

Sl. No	Technical requirement as per NIT	What is offered by the tenderer	Status of Compliance Complied/Not Complied
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Annexure - IV

Format for Financial Bid

NIT No.: ESE-500514-2017-18

Date: 16 May 2018

Bidders Reference: No.

Date:

GSTIN:

Subject: Supply & Installation of UV-VIS Spectrophotometer along with accessories

Sl. No.	Full Description of Items	Qty.	Rate	Amount
		Packing & Forwarding (if any)		
		Total		
		GST (if any)		
		Freight (if any)		
		Installation (if any)		
Amount should be in figure as well as word		Grand Total		

Note:

- 1) Price basis must be FOR IIT(ISM) Dhanbad only.
- 2) All the details must be provided as per prescribed format only on the letter head of the firm.
- 3) Prices quoted by the bidders should include all local taxes, VAT, service tax, GST, HSN Code, SAC Code, livies, transportation cost and insurance costs etc. if any
- 4) All the rates must be quoted in Indian Rupees.