

# Online Bids

are invited

*for*

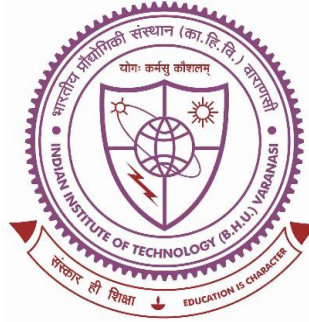
## Supply and Installation of High Precision Monochromator at IIT (BHU), Varanasi

**Tender No.:** IIT (BHU)/EC/1498

**Tender Date:** 20/12/2018

**Last Date & Time of Bid Submission:** 09/01/2019 at 02:00 PM

**Date & Time of Technical Bid opening:** 10/01/2019 at 03:00 PM



**Indian Institute of Technology  
(Banaras Hindu University)  
Varanasi-221005**

**INDIAN INSTITUTE OF TECHNOLOGY  
(BANARAS HINDU UNIVERSITY)  
VARANASI – 221005**

DEPARTMENT/SCHOOL/CENTRE:

**REQUEST FOR QUOTATION**

**Sub.: Request for Quotation for Supply and Installation of High Precision Monochromator at IIT (BHU), Varanasi**

To

Dear Sir,

It is proposed to buy the items mentioned below for our Institutional purpose. Accordingly, you are hereby requested to submit your valid and firm quote for supply, installation, commissioning, certification etc. for below mentioned specifications as per the terms & conditions indicated herein below in respect of the following items sealed in Single bid basis. Your quotation must be submitted within due date.

SL. NO.	Name of Items	Description / Technical Specification	Quantity
1	High Precision Monochromator	As per Annexure I-C	01

**Instructions to Bidder (ITB):**

**Please Note:**

You are requested to kindly go through the detailed Terms & Conditions mentioned below and overleaf and submit your most competitive bid applicable to Educational and Research Institutes/IITs.

1. Please mention the enquiry no. & due date on the top of the Bid envelop.
2. Full specification and make of the item offered and its rate F.O.R. Varanasi/CIF/CIP New Delhi.
3. GST at concessional rate as applicable to IITs.
4. Your GST registration number, PAN number.
5. Conditions of supply and terms of payment.
6. If you are a manufacture of the item or if you have proprietary right over it, please mention it in the quotation and provide a certificate.
7. Please mention your agency commission in Indian Rs., if applicable (in case of imported items).
8. Please give undertaking as per Annexure-I-A, I-B and quote the price in Annexure I-C/I-D.
9. The offer must be submitted in Single-way bid system.
10. No Tender is to be handed over to any of our staff/ any other person.
11. All tenders/quotations should be submitted through CPP Portal only.
12. Tenders/Quotations must be sent sufficiently in advance on or before the due date and time.
13. The firm quoting for above mentioned items should be the authorized dealer of the manufacturer. Copy of authorization certificate should be enclosed with the quotation. Offers submitted without proper authorization shall be reected summarily.
14. The Bank/RTGS detail must be submitted along with the quotations/Tenders on the letter head.
15. All communications related to this tender should be addressed to the undersigned only.

**Terms & Conditions**

**The offer must comprise of the following failing which it will be treated as non-responsive hence rejected:**

1. **Price:** The **basic price** must not be higher than price of the principal, if any additional accessories/Optional items are required in enquiry, it must be quoted separately. Price list in case of proprietary items must be submitted.

2. Items need to be quoted per **Unit Price**, thereby totaling the net price at the end of the **Price Bid form**.
3. **Price Bid format:** Please fill up the relevant formats enclosed depending on the offer as Annexure-I-D & I-E.
4. **Taxes and Levies:** Taxes as applicable should be mentioned clearly in percentage (%) and in exact Figure. If No Tax is mentioned it will be presumed that the Price is inclusive and the Bidder is responsible for all Tax related Compliances. Statutory Levies will be accepted on production of valid documents.
5. **Concessional GST is applicable to IITs. Certificate** will be provided as and when required.
6. **Overhead Charges:** The quoted price (final offer) must be F.O.R. – IIT BHU, Varanasi including all overheads such as Packing, Forwarding, Loading/Unloading, Transporting, Postage/Courier, Octroi, Freight, Insurance etc. with detail break-up.
7. **Additional Charges if any**, for Installation, Commissioning, Certification, Extended Warranty any other charge(s) must be mentioned clearly.
8. **Discounts:** The bidder need to mention clearly the exact figure of discount offered to IIT (BHU) being a premier Academic Institution and also the Percentage, if any.
9. **Concession/Exemptions:** IIT BHU, Varanasi being an academic Institute is entitled for payment of Concessional Customs Duty on import of Scientific Instruments for Academic and Research purposes in terms of *Govt. Notifications* and payment of IGST on Import. Institute will provide the required certificates as and when required.
10. **Validity of the Quote:** The validity period of the offer should be clearly specified. It should be at least for **90(Ninety) days** from the last date of submission of quotations.
11. **Delivery Terms:** Delivery Terms is FOR, IIT BHU, Varanasi destination Campus. Rates should be quoted accordingly.
12. **Delivery Schedule:** Delivery within 4 - 6 weeks. Items should be delivered only on Working Days (Monday to Saturday) during office Hours only.
13. **Place of Delivery:** IIT BHU, Varanasi.
14. **Receipt of Goods:** The items ordered should be delivered at appropriate place in Good condition and with proper package. The items would be weighed, counted and measured, if required to confirm the accuracy and a provisional acknowledgement will be given.
15. **Terms of Acceptance:** The items will be treated Accepted only after Inspection for Features and Functions. This includes delivery, installation & commissioning, inspection, demonstration, Training schedule etc.
16. **Specification and Make:** Quotation should confirm the exact specification and make, Model, if any shown in the enquiry against Sl. No. of the item. In the view of the supplier there is any other alternative item which can serve out purpose, quotation may also be given for the same separately client list along with the order copy of similar equipment supplied to any IITs/ any Govt. Organization including detail of price & all charges must be attached.
17. In the case of items quoted having specifications different than those mentioned in the enclosed Tender format, kindly submit the information and the prices in the same format but on additional Sheet.
18. **Insurance:** The date of delivery should be strictly adhered to failing which the purchase order is liable to be cancelled. Penalty may be imposed as per P.O. terms & conditions. Goods should be securely, safely and adequately packed & dispatched and delivered at the risk of supplier. In case of damage consignment the same should be replaced without any cost to the Buyer and the supplier can collect the damaged consignment after satisfactory replacement.
19. **Payment:** Payment will be released through wire transfer/bank RTGS transfer/Cheque after arrival, testing, inspection, installation of the item(s) and if found satisfactory with regard to quality, quantity and specifications ordered. The payment will be released after statutory deductions. For the payment, the firm has to submit bill(s), challan(s), warranty certificate, bank details/cancelled cheque, installation report, performance bank guarantee (if required) etc. to the Department of Electronics Engg. IIT (BHU), Varanasi.

20. **Guarantee/Warranty:** The equipment should be guaranteed onsite (in site) against any manufacturing defect for a period of at least 01 year by OEM from the date of installation and final acceptance(Proof of Supporting document must be enclosed).
21. In case any part or whole of the equipment is found to be defective during the guarantee period, then the same will have to be replace/repaired free of cost at our premises. In case the Part or Equipment is to be taken out of IIT (BHU), Varanasi, the Supplier has to furnish an undertaking and also take it at their own cost and Risk.
22. **Liquidated Damages:** As Time is the essence of this order, the date of delivery should be strictly adhered to, otherwise the delivery in full or in part may not be accepted and penalty for late delivery will be imposed @ 1% per week subject to a maximum of 10% of the total value of supply order & beyond 10% subject to approval of IIT (BHU), Varanasi. In case of delay in installation and Commissioning, Inspection, Certification etc. also the same rate of penalty shall be leviable.
23. **Cancellation:** IIT BHU, Varanasi reserves the right to accept or reject or cancel any or all enquiries or quotations at any stage without assigning any reason thereof.
24. In case of cancellation of order due to Non-compliance of the Terms and Condition and Breach of the Contract, No compensation will be paid towards progress of order/procurement.
25. For any dispute, the place of jurisdiction shall be Varanasi, UP, India only.

Yours' sincerely,

**Principal Investigator**

## INDIAN INSTITUTE OF TECHNOLOGY (BHU) VARANASI

<b>TO BE RETURNED</b>
-----------------------

Following proforma should be filled in and duly signed by the firm and sent alongwith the quotation. (Please refer to the detailed instructions/notes before filling this proforma).

1. Validity of the offer : .....
2. Approximate Delivery Period : .....
3. (a) Whether rates have been quoted F.O.R. site and covers packing forwarding and insurance charges. : YES / NO  
(b) If not, please mention the same : .....
4. (a) Whether the prices are inclusive of Sales Tax and : other taxes. YES / NO  
(b) If not, kindly specify the amount / rate : .....
5. If the GST is charged extra, please mention the rate : .....
6. (a) Whether supply will be made directly or through any Local / Regional / Authorized Dealer / Stockist : Directly/Stockist/Authorized Dealer  
(b) If through a Stockist / Dealer: -  
(i) Name and full address of the Party : .....
- (ii) Whether the order to be placed with the : Principal / Stockist / Dealer  
(iii) Who will raise the bill : Principal / Stockist / Dealer  
(iv) Payment will be made in favour of : Principal / Stockist / Dealer  
(v) Whether any Delivery, Packing and Forwarding Charges will be payable to local Stockist/Dealer : YES / NO  
(Please specify the amount/percentage etc, if any)
7. Our terms of payment (Please indicate your preference by a (✓) mark). Please note that no other payment terms are likely to be accepted.  
(a) **For Local Firms or if the bills are raised by the Local Dealers.**  
(i) 100% Payment on bill basis : .....
- (b) **If the bills are raised by outstation Firms**  
(i) 100% Payment on bill basis : .....
- OR**  
(ii) 100% payment against Proforma Invoice after receipt of materials in good condition, installation and satisfactory report : .....
- OR**  
(iii) D.G.S. & D. Terms of Payment for D.G.S. & D Rate Contract items : .....
- OR**  
(iv) 75% against Proforma Invoice (at site) or documents through Bank and 25% after receipt of materials in good condition, installation and satisfactory report. : .....
- OR**  
(v) 90% payment against Proforma Invoice (at site) or documents through bank and 10% after receipt of materials in good condition, installation and satisfactory report (Only under special Circumstances). : .....
8. Whether any installation charges are payable extra. : YES / NO  
If yes, amount to be specified. : .....
9. Whether any discount for educational institution :  
offered on the printed price list of the manufacturer. : YES / NO  
Please mention the amount / percentage. : .....
10. Whether the product is on DGS &D/D.I. Rate contract.  
If yes, please enclose a photocopy of the same. : YES / NO

11. Whether the product bears I.S.I. Mark. YES / NO  
If yes, please mention the I.S.I. License no. : .....
12. (a) Whether the firm is Sales Tax payer. YES / NO  
If yes, please mention the Sales Tax Numbers. : .....
- (b) Whether the Local Dealer(s) is / are Sales Tax payer(s) : YES / NO  
If yes, please mention the Sales Tax numbers of each : .....
13. Whether printed / authenticated price list of the Firm's Products and Catalogue etc. enclosed. : YES / NO

Signature of the Authorised Official with Seal

TO BE RETURNED WITH QUOTATION

**UNDERTAKING**

***WE HEREBY UNDERTAKE THE FOLLOWING:***

1. We will not sell the product (s) to other institutions, bodies and also in the market on the rates less
  - a. than those quoted by us to the Institute.
2. The goods on which GST has been charged are not exempted for payment of GST under G.S.T. Act or the rules made there under and the amount mentioned on account of GST on goods is not more than what is payable under the provisions of the relevant Act or Rules made there under.
3. The goods / Stores / articles offered shall be of the best quality and workmanship and their supply will be strictly in accordance with the technical specifications and particulars as detailed in the quotation.
4. The information furnished by us in the quotation is true and correct to the best of our knowledge and belief.
5. We have read and understood the rules, regulations, terms and conditions and agree to abide by them.

***Authorised  
Signatory(Seal)***

## Technical Specifications

### A. High Precision Monochromator

#### Features

- Automatic scan system for highest accuracy and repeatability of any direct-drive wavelength scanning system
- Easy, precise alignment and focus of array detectors if any attached later.
- Interchangeable triple-grating turrets
- High-efficiency optical coatings
- Convenient computer interface with possible controllability features through LabView software
- Compatible with existing xenon and halogen light source
  - i. Halogen light source: Model TS428 from Princeton Instruments
  - ii. Xenon light source: Apollo X-series from Gilden Photonics.

#### Specifications:

- a. **Output ports:** 1 exit slit
- b. **Entrance port:** 1 port
- c. **Focal length:** 300 mm  $\pm$  5 mm
- d. **Aperture ratio:** f/3.9
- e. **Mechanical scanning range:** 0-1500 nm with 1200 g/mm grating or better
- f. **Linear Dispersion:** 2.38 nm/mm (@435.833 nm and with 1200 g/mm)
- g. **Spectral resolution with PMT\*:** 0.09 nm with 10  $\mu$ m wide slits
- h. **Wavelength coverage across 26.8 mm wide CCD:** 64 nm (nominal)
- i. **Spectral resolution with PMT\*:** 0.09 nm with 10  $\mu$ m wide slits.
- j. **Wavelength Accuracy:**  $\pm$  0.2 nm or better
- k. **Wavelength Repeatability:**  $\pm$  0.004 nm or better
- l. **Drive Step Size:** 0.002 nm
- m. **Focal plane size:** 14 mm x 30 mm
- n. **Computer Interface:** USB 2.0/3.0 or higher
- o. **Drive step size:** 0.002 nm/step
- p. **Turret:** Triple-grating interchangeable CTS-Turrets self-align to system when installed
- q. **Grating change repeatability:** 0.02 nm (typ.) or better
- r. **Grating size:** 68 mm x 68 mm or 68 mm x 84 mm
- s. **Number of turrets allowed:** Accepts as many as 3 turrets, each with 3 gratings
- t. **Certification:** CE tested to the following standards: EN 55022:2010/AC:2011, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61000-6-3:2007/A1:2011, EN 61326-1:2013.

### B. Gratings details

#### 1. First grating

- a. Groove density: 1200 g/mm
- b. Blaze wavelength: 300 nm
- c. Optimum wavelength range: 200-700 nm
- d. Grating Efficiency:  $\geq$  70% in between 280nm – 360nm
- e. Type: Ruled grating

#### 2. Second grating

- a. Groove density: 1200 g/mm
- b. Blaze wavelength: 500 nm
- c. Resolution with HRS 300 at 435.8 nm with 10-micron slit and 4mm slit height: 0.09 nm
- d. Grating Efficiency:  $\geq$  80% in between 450nm – 550nm
- e. Optimum wavelength range: 325-1000 nm
- f. Type: Ruled grating

#### 3. Third grating

- a. Groove density: 600 g/mm
- b. Blaze wavelength: 1000 nm
- c. Optimum wavelength range: 670-1600 nm
- d. Grating Efficiency:  $\geq$  80% in between 900nm – 1100nm
- e. Type: Ruled grating



**PRICE SUBMISSION FORM (to be utilized by the bidders for indigenous quotes)**

RFQ NO.:

Date:

Name of the Company/Firm M/S. \_\_\_\_\_

	Description	Quantity	Price per Unit in INR	Total Price
<b>Price</b>	Basic Price of the item			
<b>Discount</b>	Discount to IITs, if any			
<b>Net Price</b>	Net Basic Price			
<b>Taxes</b>	Concessional GST applicable for IITs, if any			
	Other taxes, if any ( <i>please specify</i> )			
<b>Service Charge</b>	Service Charge, if any			
<b>Overheads</b>	Transport Charge, if any			
	Packing and Forwarding, if any			
	Delivery Charges if extra(Loading/Unloading), if any			
	Documentation Charges, if applicable			
<b>Installation etc.</b>	Installation Charges			
	Commissioning Charges			
	Inspection Charges			
<b>AMC</b>	AMC Charges to be quoted per annum for beyond standard warranty			
<b>Other Charges, if any</b>				
<b>Total Landing Price to IIT BHU, Varanasi (in Figures)</b>				
<b>Total Price in Words</b>				
<b>Validity of above quoted rates</b>				

*Price quoted is firm and final with Validity as per the terms of IIT BHU, Varanasi tender Terms.*

**Signature of the Authorized person with seal and date**

**PRICE SUBMISSION FORM (to be utilized by the bidders for Import quotes)**

RFQ No.:

Date:

Name of the Company/Form M/S. \_\_\_\_\_

	DESCRIPTION	Quantity	Price per Unit	Total Price
<b>Price</b>	Basic Price of the item			
<b>Discount</b>	Discount to IITs, if any			
<b>Net Price</b>	Net Basic Price			
<b>Taxes</b>	Ex-works			
	Packing & forwarding charges			
	FCA/FOB			
<b>Overheads</b>	Insurance + Freight Charges			
	CIP/CIF			
	Concessional Custom duty (Custom Duty Exemption certificate will be issued by IIT BHU, Varanasi).			
	Clearance & Transportation Charges			
	Total Cost			
<b>Installation etc.</b>	Installation & Commissioning Charges			
<b>AMC</b>	AMC Charges to be quoted to be quoted per annum for beyond standard warranty			
<b>Other charges if any</b>				
<b>Total Landing Price to IIT BHU, Varanasi (in figure)</b>				
<b>Total Price in Words</b>				
<b>Validity of above quoted rates</b>				

*Price quoted is firm and final with Validity as per the terms of IIT BHU, Varanasi tender Terms.*

**Signature of the Authorized person with seal and date**

**TENDER DOCUMENT FOR SUPPLY AND INSTALLATION OF HIGH PRECISION  
MONOCHROMATOR AT IIT (BHU), VARANASI**

**CRITICAL DATA SHEET**

Name of Organization	Indian Institute of Technology (Banaras Hindu University)
Tender Type	Open
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/Auction/ Service/ Buy/ Empanelment/ Sell)	Buy
Product Category	Other
Date of Issue/Publishing Original Tender	20.12.2018
Document Download Start Date	20.12.2018
Document Download End Date	09.01.2019 till 02:00 PM
Last Date and Time for Uploading of Bids	09.01.2019 till 02:00 PM
Date and Time of Opening of Technical Bids	10.01.2019 at 03:00 PM
No. of Covers (1/2/3/4)	2
Bid Validity days (180/120/90/60/30)	90 days
Address for Communication	Prof. Satyabrat Jit Department of Electronics Engineering IIT (BHU) Varanasi 221108 U.P.
Contact No.	9453364250
Email Address	<a href="mailto:sjit@iitbhu.ac.in">sjit@iitbhu.ac.in</a>