

TENDER

FOR

SUPPLY & INSTALLATION OF FIELD EMISSION &
PHOTOCONDUCTIVITY EQUIPMENT FOR SCHOOL
OF ENGINEERING,

IIT MANDI



Tender No.: IITMANDI/Admin/PUR-147/2014-15/7516-17

Tender date: 10th February, 2015

Last Date of submission: 3rd March, 2015

Indian Institute of Technology, Mandi

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

Tel.: 01905-237929

Email: viswa@iitmandi.ac.in

Indian Institute of Technology Mandi, Mandi invites tender for supply, erection & installation, of **Field Emission & Photoconductivity Equipment**, 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.

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, 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/Admin/PUR-147/2014-15/7516-17/Item Name._____ dated 10.02.2015**”
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 3rd March, 2015** shall not be considered
8. The Technical Bids will be opened on **3rd March, 2015 at 03:00 P.M.** The date & time for opening of Financial Bids will be informed later 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 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 put forth by the tenderer shall be summarily rejected.
17. 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 posted on Institute’s web site / Notice board. In exceptional situation, an authorized committee may negotiate price with the qualified bidder quoting the lowest price before awarding the contract.

18. Clarifications:

In case the bidder requires any clarification regarding the tender documents, they are requested to contact our office (e-mail: viswa@iitmandi.ac.in , pkumar@iitmandi.ac.in & arsp@iitmandi.ac.in) on or before 2/03/2015.

19. Tender Cost:

A Demand draft of **Rs. 1,000/- (Rupees One Thousand only)** towards non-refundable **tender fee, for each item being quoted, drawn in favour of “The Registrar, IIT Mandi”** payable at Mandi should accompany the Technical bid documents. If the same firm is submitting bids for more than one Item/ instrument, they should submit the same in separate envelopes along with respective tender cost for each. In the absence of tender cost, the tender will not be accepted.

20. Earnest Money Deposit (EMD):

A refundable amount @ 2% of the quoted price 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 in each case** will lead to rejection of tender. The bidders should submit separate EMD for each item, if quoting for more than one item.

21. 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) 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.
- c) OEM should be internationally reputed Branded Company.
- d) 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.
- e) **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.**

22. 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). 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.

23. 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.

24. 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.

25. 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.

26. 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.

27. 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.

28. 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.

29. 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.

30. 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.

31. Return of EMD:

- The earnest money of unsuccessful bidders will be returned to them without any interest within 30 working days after awarding the contract.
- The earnest money of the successful bidder will be returned to them without any interest within 30 Days after supply of material

32. 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.

33. 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 :

Annexure - 1

Ref.: ENQUIRY No.: IITMANDI/Admin/PUR-147/2014-15/ Item No. 1/ Digital Source Meter Units
(Two Number)

ITEM 1: Digital Source Meter Units (Two Number)

Technical specification for Digital Source Meter

No. of channels: 2 (independent) bipolar.

1. Sourcing Capabilities:

Output power: 30 W (or more) per channel.

2. Current Sourcing capabilities

- **Range:** $\leq 100 \text{ nA}$ to $\geq 3 \text{ A (DC)}$ and 10 A (Pulse) sourcing capability on each channel.
- **Resolution:** Better than 2pA for less than 100 nA, better than 20 pA for less than 1 uA, better than 200 pA for less than 10 uA, better than 2 nA for less than 100 uA, better than 200 nA for less than 10 mA, and better than 20 uA for higher range.
- **Settling time:** Less than 20 ms (or better) up to 100 nA, less than 600 us (or better) for current upto 1 uA, less than 300 us (or better) for current upto 100uA and less than 100 us (or better) for current upto 3A.

3. Current measurement capabilities:

- **Range: from 100 nA (or less) to 3 A (or more, DC) and 10 A (or more, Pulse)**
- **Resolution:** Better than 100 fA for less than 100 nA, better than 1 pA for less than 1uA, better than 10 pA for less than 10 uA, better than 100 pA for less than 100 uA, better than 1 nA for less than 1 mA, better than 10 nA for less than 10 mA, better than 100 nA for less than 100 mA, better than 1 uA for less than 1.5A and better than 20 uA for higher range.

4. Voltage sourcing capabilities:

- **Range:** $\leq 200 \text{ mV}$ to $\geq 200 \text{ V}$
- **Resolution:** Better than 5 uV for less than 200 mV, better than 20 uV for upto 2 V, better than 150 uV for upto 20 V and less than 2 mV for higher range.
- **Settling time:** Less than 100 us for upto 200 mV, less than 150 us for upto 20V and less than 1 ms for higher voltages

5. Voltage measurement capability:

- **Range:** $\leq 200 \text{ mV}$ to $\geq 200 \text{ V}$
- **Resolution:** Better than 120 nV for upto 200 mV, better than 1 uV for upto 2 V, better than 10 uV for upto 20 V and better than 100 uV for higher range.
- Input impedance: $>10 \text{ G}\Omega$
- Measurement time: less than 1 ms

6. Ohmic Range

$\leq 5 \Omega$ to $\geq 200 \text{ M}\Omega$

7. Computer/programming interface compatible with USB, LXI (LAN), GPIB. Preferably, compatible for Graph (I-V) display on instrument. 6 1/2 digits measurements resolution.

Provide breakup quotation for main equipment, accessories, optional accessories, GPIB cable, USB-to-GPIB interface Adapter for USB port and spares; and clearly mention the essential items, including software/driver etc, required to meet above specifications.

8. Optional Accessories:

Precision micro-positioners with probe tip (**Two number**) and with magnetic mounting, required for I-V measurements. Positioner should have true linear X, Y,Z motion for ultra-precise probe-tip placement. X,Y and Z axis should have travel range of ≥ 12 mm.

Vendor should provide separate quotation for all essential accessories required to smooth functioning of micro-positioner with probe tip. Specify the details of the system with model no., technical details etc in the tender documents.

**Compliance Statement For The Tender
specifications
INDIAN INSTITUTE OF TECHNOLOGY MANDI
HIMACHAL PRADESH-175001**

Ref:-ENQUIRY NO:- IITMANDI/Admin/PUR-147/2014-15/ Item No.1/ Digital Source Meter Units (Two Number)

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

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 Technical Specifications from S.no. 1 - 8 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 Annual maintenance after expiry of comprehensive onsite warranty quoted separately as optional.		

Annexure - 2

Ref.: ENQUIRY No.: IITMANDI/Admin/PUR-147/2014-15/ Item No. 2/ One Research Grade Optical Table with rigid support

ITEM 2: One Research Grade Optical Table with rigid support

IIT Mandi require an optical table with rigid support. The technical specifications of the optical table are mentioned below:

1. Table Dimension: 4 feet wide, 5 feet long and 3 feet height with a table top of 6 inch (~ 15 cm) thickness, [W x L x H of 4x5x3 ft]
2. Gross Load Capacities up to 900 Kgs (or more).
3. Table and table-top material should be stainless steel.
4. Surface flatness should be ± 0.1 mm (or better).
5. Mounting Holes – M6-1 inch on 25 mm grid.
6. Maximum dynamic deflection coefficient should be 10^{-3} (or better).
7. Maximum deflection under load should be 10^{-4} mm (or better).
8. Tools and Spare part for smooth functioning of the optical table and rigid support for 3-5 years.

Optional Accessories:

A. Stages:

- a) XYZ stage (**Two in number**) Aluminium built (manually controlled) with 1 um resolution (or better) with 1 inch movement in each direction. Micrometer should have a direct (digital) read out of upto 1 micron. Load capacity should be 5 Kg (or better)
- b) XZ stage (manually controlled) 80 TPI (or better) with 1 inch movement in each direction. Load Capacity should be 5 Kg (or better).

B. Opto-mechanics:

- a) 6 Low drift maximum aperture mirror mounts (80 TPI or better for movement) for mirror with 1 inch diameter. Optics should be held by nylon tipped set screw and optics should rest on Teflon pad.
- b) 12 base clamps and base plates, 12 angle brackets, 24 optical post holders for the mounting post, 24 optical mounting Post 1 inch dia (6 - 4inch long, 6 - 2inch long, 6 - 1 inch long, 6 - 0.5 inch long), 60 - M6 screws (12- 0.5 inch long, 24-2 inch long, 24-3 inch long,).
- c) Precision rotation polarizer mount (2 no.) for 1 inch (Diameter) wave plates and polarizers.
- d) L-Allen wrench set (2 no.).

- C. Provide breakup quotation for main equipment, essential accessories and optional accessories, and clearly mention the essential items required to meet above specifications for smooth functioning of the optical table with rigid support.

**Compliance Statement For The Tender
Specifications
INDIAN INSTITUTE OF TECHNOLOGY MANDI
HIMACHAL PRADESH-175001**

Ref:-ENQUIRY NO:- IITMANDI/Admin/PUR-147/2014-15/ Item No.2/ One Research Grade Optical Table with rigid support

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

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 Technical Specifications from S.no. 1 – 8 & Optional Accessories. Attach a separate sheet showing compliance with the specifications and explanations there to 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 Annual maintenance after expiry of comprehensive onsite warranty quoted separately as optional.			

Annexure - 3

Ref.: ENQUIRY No.: IITMANDI/Admin/PUR- 147/2014-15/ Item No. 3/ Diode Lasers (488 nm, 514 nm and 640 nm)

ITEM 3: Diode Lasers (488 nm, 514nm and 640 nm)

IIT Mandi require compact software controlled continuous wave (CW) diode Lasers with tunable power in the visible range. All the Laser should be extremely stable over time in power as well as wavelength. The technical specifications are mentioned below:

- a) All Lasers should be single mode and should have spatial mode TEM00.
- b) Laser Heads must be compatible with same power supply. 3 Laser Heads and 2 Power Supply must be quoted separately.
- c) Laser Head should have USB interface to connect it to Computer System.
- d) All the interfacing & connecting cables should be supplied along with the laser heads for smooth operation.
- e) Digital/Analog modulation feature should be provided with Lasers.
- f) Laser Head Dimensions should be $\leq 70 \times 40 \times 38$ mm.

A. 488 nm

1. Laser power should be ≤ 50 mW.
2. Beam diameter should be ≤ 1 mm
3. Polarization Ratio Minimum 100:1
4. Ambient operating Temperature range should be in the range of 10 to 50 °C.
5. Beam Divergence should be < 1.2 (mrad, full-angle)
6. Beam Asymmetry should be $< 1:1.2$
7. RMS Noise (20 Hz to 20 MHz) should be ≤ 0.05 %
8. Pointing Stability should be < 30 μ rad
9. Peak-to-Peak Noise (20 Hz to 20 kHz) should be < 0.5 %

B. 514 nm

1. Laser power should be ≤ 40 mW.
2. Beam diameter should be ≤ 1 mm
3. Polarization Ratio Minimum 100:1
4. Ambient operating Temperature range should be in the range of 10 to 50 °C.
5. Beam Divergence should be < 1.1 (mrad, full-angle)
6. Beam Asymmetry should be $\leq 1:1.2$
7. RMS Noise (20 Hz to 20 MHz) should be ≤ 0.05 %
8. Pointing Stability should be < 30 μ rad
9. Peak-to-Peak Noise (20 Hz to 20 kHz) should be < 1 %

C. 640 nm

1. Laser power should be ≤ 40 mW.
2. Beam diameter should be ≤ 1 mm
3. Polarization Ratio Minimum 100:1
4. Ambient operating Temperature range should be in the range of 10 to 50 °C.
5. Beam Divergence should be < 1.3 (mrad, full-angle)
6. Beam Asymmetry should be $\leq 1:1.2$
7. RMS Noise (20 Hz to 20 MHz) should be ≤ 0.05 %
8. Pointing Stability should be < 30 μ rad
9. Peak-to-Peak Noise (20 Hz to 20 kHz) should be < 0.5 %

D. Provide breakup quotation for main equipment, accessories, spares, and clearly mention the essential items, including **heat sink** (compatible with all the three laser heads), base stand to fix Laser on optical table (M6-1 inch), software/driver etc, required to meet above specifications for the smooth functioning of the Lasers.

**Compliance Statement For The Tender
specifications
INDIAN INSTITUTE OF TECHNOLOGY MANDI
HIMACHAL PRADESH-175001**

Ref:- ENQUIRY NO:- IITMANDI/Admin/PUR- 147/2014-15/ Item No.3/Diode Lasers (488 nm, 514 nm and 640 nm)

Instructions

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

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 Technical Specifications mentioned in annexure 3 above. Attach a separate sheet showing compliance with the specifications and explanations there to 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 Annual maintenance after expiry of comprehensive onsite warranty quoted separately as optional.			

Annexure - 4

Ref.: ENQUIRY No.: IITMANDI/Admin/PUR-147/2014-15/ Item No. 4/ Desktop Computer System

ITEM 1: Computer System

Technical specification for Computer System

System with Intel core i5-4590 Processor 4th generation (Quad Core, 6MB, 3.30GHz w/HD4600 Graphics), 8 GB RAM, 1TB HDD, DVD R/W, 1 GB Nvidia Geforce 620 graphic card, mechanical keyboard and optical mouse, Windows 7, 21" Screen.

Note: Common for all the four items in the tender document

1. Operation and service manual in English (electronic and hard copy) should be provided with all the equipments and components.
2. In the technical details, specify clearly about the kind of service/maintenance required for the system. Also mention that whether the service has to be carried out by a company engineer or it can be carried by trained service personnel within India.
3. The complete instrument should be under warranty for a period of at least one year from the date of installation. The vendor should be agreeable to enter into Comprehensive Annual Maintenance Contract with IIT Mandi at a reasonable price, for maintaining the equipment in proper working conditions, after the warranty period is completed.
4. The complete training of all measurement options should be free for IIT Mandi user staff/students members, onsite.
5. Enclose pre-installation guide for the details on electrical power, space and other for all components and essential accessories, if any.
6. Bid should include all other essential auxiliary equipment and spares for its smooth operation for 3-5 years from date of installation (please provide list with the details).
7. All sample handling tool-kits/consumables should be provided. Wherever, consumables and other items required to handle the system while operating all measurement options, must be quoted separately for enough quantity.
8. Quote separately for all optional items/accessories, optical components and consumables which are not explicitly specified above however required for smooth functioning of the machines.
9. A list of institutes (with details) in India where the similar equipment (with all options in this tender) has been sold or is under operation should be provided. Prospective vendor should clearly mention the type of measurement options (along with the main system) supplied to these institutes.
10. The supplier must submit technical brochures and proper application notes adequately explaining and confirming the availability of the features in the model of the equipment being quoted. The supplier must submit a table indicating the compliance of the features of the model of the equipment being quoted with those given in the indent. Features not matching – must be clearly indicated. Additional features in the quoted equipment which are better than those in the indent – may be clearly explained.

**Compliance Statement For The Tender
specifications**

**INDIAN INSTITUTE OF TECHNOLOGY MANDI
HIMACHAL PRADESH-175001**

Ref:- ENQUIRY NO:- IITMANDI/Admin/PUR-147/2014-15/ Item No.4/ Desktop Computer System

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

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 Technical Specifications mentioned in annexure 4 above. Attach a separate sheet showing compliance with the specifications and explanations there to 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 Annual maintenance after expiry of comprehensive onsite warranty quoted separately as optional.		