

TENDER

FOR

SUPPLY & INSTALLATION OF PLANETARY BALL MILL IN  
SCHOOL ENGINEERING, IIT MANDI



**Tender No.: IITMANDI/Admin/PUR-121 /2014-15/7175-76**

**Tender date: 24<sup>th</sup> January, 2015**

**Last Date of submission: 16<sup>th</sup> February, 2015**

Indian Institute of Technology, Mandi

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

**Tel.:** 97360-33342 **email:** [rahul@iitmandi.ac.in](mailto:rahul@iitmandi.ac.in)

Indian Institute of Technology Mandi, Mandi invites tender for supply, erection, installation, commissioning, testing, demonstration and training of an Instrument, 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-121/2014-15/7175-76/Item Name.\_\_\_\_dated 24<sup>th</sup> January, 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 **03:00 P.M. on 16<sup>th</sup> February, 2015** shall not be considered
8. The Technical Bids will be opened on **18<sup>th</sup> February, 2015 at 03:00 P.M.** The date & time for opening of Financial Bids will be informed later on 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 for submitting the tenders 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”, Mandi 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 putforth 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 bidders requires any clarification regarding the tender documents, they are requested to contact our office (e-mail: [rahul@iitmandi.ac.in](mailto:rahul@iitmandi.ac.in) & [arsp@iitmandi.ac.in](mailto:arsp@iitmandi.ac.in) on or **before 08/02/2015.**

19. **Tender Cost:**

A Demand draft of **Rs. 1,000/- (Rupees One Thousand only)** towards non-refundable **tender fee, drawn in favour of “The Registrar, IIT Mandi”** payable at Mandi should accompany the Technical bid documents. In the absence of tender cost, the tender will not be accepted.

20. **Earnest Money Deposit (EMD):**

A refundable amount of **Rs 30,000/-** 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 opening 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** will lead to rejection of tender. The bidders should submit separate EMD.

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

NIT Ref. No.:- **IITMANDI/Admin/PUR- 121/2014-15/ Planetary Ball Mill**

### **DETAILED SPECIFICATIONS FOR PLANETARY BALL MILL**

<b>S . No</b>	<b>Technical Specifications for Planetary Ball Mill</b>
<b>1.</b>	Laboratory Planetary Ball Mill for grinding/alloying and mixing should comply to the following specifications at a maximum speed of above 1000 rpm.
<b>2.</b>	It shall be possible to grind/mix in a bowl simultaneously.
<b>3.</b>	The system shall be suitable for size reduction , mixing , homogenizing , mechanical alloying and for feedstock of hard , brittle or fibrous material.1
<b>4.</b>	It shall be possible to use one jar of 50ml / 125 ml / 250 ml / 500 ml capacity
<b>5.</b>	Vendor has to quote 1 jar of 50 ml capacity of Tungsten Carbide with 200 No of 05 mm dia Balls and 20 balls of 10mm dia. With 5 O-rings Vendor has to quote 1 jar of 50 ml and 1 Jar of 125 ml capacity of AGATE with 600 No of 05 mm dia Balls and 50 balls of 10mm dia. And 20 balls of 20mm dia.
<b>6.</b>	Optionally, Vendors should quote for the jars of 50 ml, 125 ml, 250 ml and 500ml volume of Zirconium Oxide, Sintered Aluminium Oxide and stainless steel. The vendor should quote for Aeration covers and safety closing device.
<b>7.</b>	The jars shall be provided with identification marks indicating the item number, material and volume to facilitate easy trace ability. Space shall also be available for user defined labelling.
<b>8.</b>	The jars shall be capable of rotating at high speeds without spilling / leakage of the powders.
<b>9.</b>	The vendor should quote for Pressure and Temperature Measuring System PM Grind Control with grinding jar "comfort" 250 ml, stainless steel to record the most important thermodynamic parameters : pressure and temperature.
<b>10.</b>	It shall be possible to continuously increase the speed of rotation of the base plate and the bowls. The base plate shall have a rpm range of 100/ min – 600/ min( or more).
<b>11.</b>	The bowls shall be capable of being firmly fixed on the rotating platform, so that they are capable of rotating about their axes and are not thrown off accidentally. The system shall have provision for easy clamping device for tightening of bowls.
<b>12.</b>	The rotating parts shall be fully enclosed and a safety locking system be provided such that the motor can be started only if the enclosure is placed firmly in position.
<b>13.</b>	The Ball Mill shall be of heavy duty floor standing type to withstand high vibrations while in use.
<b>14.</b>	The instrument should have Graphic display with button operations for Speed, Grinding time, Energy input, Display of drive load factor, Operating hours and intervals.
<b>15.</b>	The offered system will be working on 230V, 50Hz, single phase power.
<b>16.</b>	The motor for the drive system should be AC drive.
<b>17.</b>	It shall be possible to run the equipment / mill in a sequence of operation such as slow start to maximum speed, a set time of rotating.
<b>18.</b>	To enhance the performance of the system for continuous operation , suitable fans shall be provided in the system to avoid overheating.
<b>19.</b>	Vendor should provide details of after sales service that can be provided to ensure smooth operation of the system during and after warranty period.
<b>20.</b>	The instrument must meet the CE / international safety standards
<b>21.</b>	The instrument weight should be of 100 kg or lower.
<b>22.</b>	Vendor to give list of users where the offered equipment is supplied

**23.** Quote optional accessories separately

**24. Installation requisites:** All the prerequisites for installation have to be quoted. Institute will only provide electricity at 220V, 50Hz, and space.

**25. Safety devices: Suitable online UPS systems to run the system safely at least for 1 hr.**

**26. Warranty and maintenance**



- a. The complete instrument excluding consumables should be under warranty at least for a period of one year from the date of installation. Additional cost, if any for extended warranty of three years may be quoted.
- b. In case of breakdown during the warranty period, a competent service engineer of the supplier should make as many visits as are necessary to rectify the problem and replace the faulty parts, without any liability of cost. But it should be repaired within 72 working hours from the date and time of complaint lodged by the user. Supplier should ensure to provide all spares required for making the instrument operational. The spares recommended for keeping in inventory along with the instrument may also be quoted.

**27. Annual maintenance contract**

Quote the cost of onsite annual maintenance for two years after warranty period.

**28. Installation and training**

Installation should be done by the manufacturer. On-site training for operation and application may be given to the users free of cost. IIT Mandi will not bear any training or leaving expenditure in this regard.

**29. Spare parts**

The supplier of the instrument must confirm in writing that the spares for the entire instrument will be available for a period of at least ten years after the model of equipment supplied has been phased out. For frequently required spares, there should be adequate inventory with the Indian agency.

**30. Manual**

One set of operating manual and service manual including detailed drawings (in English) should be provided with the instrument.

**31. User list with contacts**

Vendor should provide us a list of installations in India with all contact details and model details so that IIT Mandi can approach the contact person for any feedback.

**32. Compliance Statement**

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 and 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-121/2014-15/ **Planetary Ball Mill**

**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 column

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	<b>Does the instrument complies with all the specifications from S.no. 1 to 32 Attach a separate sheet showing compliance with the specifications and explanations thereto if the equipments varies from the requested specifications.</b>		
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.		