

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

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 : drps@ismdhanbad.ac.in || Website : www.iitism.ac.in

No.: ~~MME~~-500493-2016-17

Mech-

Date: March 22, 2017

**NOTICE INVITING TENDER**

**Subject: Supply & Installation of Open Jet Wind Tunnel and Accessories.**

Indian Institute of Technology (Indian School of Mines), Dhanbad invites quotations for the following to be supplied and delivered in Mech Engg. Department.

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Open Jet Wind Tunnel and Accessories. (Detailed Specification is given in Annexure – I)	01 No.	At the Earliest /Ex-Stock

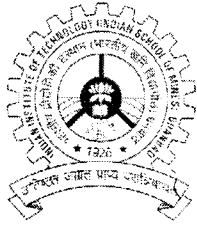
**Tender Schedule**

Particulars	Date & Time
Last date for seeking clarification/s (if any)	13.04.2017 at 3:00 P.M.
Last date and time for submission of tenders	18.04.2017 at 3:00 P.M.
Date and time of opening of tenders	18.04.2017 at 4.00 P.M.

1. You are requested to quote your lowest rates for the supply of above items in the attached format for Financial Bid (Annexure – II)
2. Clarification(s) sought after the prescribed date shall not be entertained.
3. You may send your representative in the office of the undersigned at the scheduled date and time of opening of tender.
4. Tender should be submitted in sealed cover only superscribed with Enquiry No. and due date at the following address only:

*The Deputy Registrar (P&S)*  
*Indian Institute of Technology (Indian School of Mines),*  
*Dhanbad – 826 004 Jharkhand*  
*P: 0326-2235612*  
*E: [drps@ismdhanbad.ac.in](mailto:drps@ismdhanbad.ac.in)*

*Regd.*



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## Terms & Conditions:

- 1) The rates should be quoted for each item separately.
- 2) Conditional offer will not be accepted.
- 3) IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of sales tax/VAT applicable should be quoted.
- 4) **Educational discount**, if any, should be clearly mentioned.
- 5) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
- 6) Your tender must be valid for **minimum 90 days** from the date of opening of tender.
- 7) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of **12 months**.
- 8) *Each page in the bid document must be numbered properly* and duly signed & sealed by the bidder on every page of the bid.
- 9) **The items/ materials shall be required to be delivered at EE Department/ Section through Purchase & Store Section, IIT (ISM) Dhanbad at the risk and cost of the tenderer.**
- 10) Unloading and installation shall be the complete responsibility of the supplier.
- 11) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
- 12) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 13) **Advance payment is not admissible.** Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items.
- 14) In the event date on which the tender is opened for acceptance is declared to be a holiday, the tenders shall be deemed to remain open for acceptance till the next working day.
- 15) Please send your offer by Regd.Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) working hours only (i.e. Monday to Friday). *Late or delayed tenders shall be summarily rejected.*
- 16) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 17) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

*Raj.*  
22/3/17  
Deputy Registrar

## Specification for Wind Tunnel and Accessories

### General Specifications

- Blow down type.
- Modular sections such that it can be replaced when required.
- Woolen Felt Gasket between sections
- Custom settling chamber made up of 14SWG M.S. sheet.
- Honey comb structure made up of Silicon composite tubes of suitable diameter.

### Blower specifications

- Centrifugal blower, 5000 CFM capacity coupled with 5 HP, 3 Phase Induction Motor.
- 75 mm of water column pressure.
- Control by variable frequency drive. 3 phase, 230 V

### Settling Chamber specifications

- Dimensions 800 mm x 600 mm x 400 mm (L x B x H) Honeycomb structure – Silicon Composite tubes
- Fabricated from mild steel of suitable thickness

### Contraction/Nozzle specification

- Parabolic profile.
- Contraction ratio: 8:1
- Length of contraction: 500 mm
- Fabricated from mild steel of suitable thickness

### Test section specification

- Maximum velocity required is 60 m/s.
- Dimensions: 100 mm x 300 mm x 300 mm (H x B x L). Fabricated from a transparent acrylic sheet of suitable thickness and a provision to hold the test models in the flow
- Provision to change the angle of attack accurately
- One flow measurement by Static Pitot tube and Manometer with tip located 15 cm downstream of test section.
- Turbulence intensity < 0.5%

  
2/03/17

**Diffuser Specification**

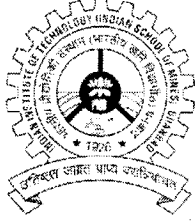
- Square cross section diffuser
- Length of the diffuser 500 mm
- Fabricated from mild steel of suitable thickness

**Specifications of accessories**

- Highly accurate Digital manometer with pitot tube
- Fog/smoke generator for flow visualization

*Peri.*

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Annexure - II

Format for Financial Bid

Our NIT No.: EE-500493-2016-17

Dated:

Bidders Ref: No.

Dated:

**Sub: Supply & Installation of Open Jet Wind Tunnel and Accessories.**

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

**Note:**

- 1) All the details must be provided as per prescribed format only
- 2) Prices quoted by the bidders should include all local taxes, VAT, service tax, duties, livies, transportation cost and insurance costs etc. if any
- 3) All the rates must be quoted in Indian Rupees.

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