



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन एवं विकास मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्व का 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@ismdhanbad.ac.in || Website : www.iitism.ac.in

No. MME-500551-2016-17

Date: April 12, 2017

NOTICE INVITING TENDER

Subject: Supply & Installation of Setup for energy efficient intelligent mine ventilation system

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

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Setup for energy efficient intelligent mine ventilation system (Detailed Specification is given in Annexure – A)	01 No	At the Earliest /Ex-Stock

Tender Schedule

Particulars	Date & Time
Last date for seeking clarification/s (if any)	28.04.2017 at 3:00 P.M.
Last date and time for submission of tenders	02.05.2017 at 3:00 P.M.
Date and time of opening of tenders	02.05.2017 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

Perj.
12/4/17

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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 MME 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.

Reg.
Deputy Registrar
12/11/17

Annexure-A

1. Three phase squirrel cage induction motor of 1.5Hp/2Hp, 4 poles, 50Hz, 1440rpm with the extended shaft to mount 1:5 ratio gear of 2Hp rating.
2. Variable frequency drive for three phase induction motor: input 415V, 3phase/230V, 1phase, 50Hz. Fundamental frequency variation 2-100Hz. Switching device MOSFET/IGBT with an isolated gate driver, switching frequency 6 KHz.
3. The gearbox of 1:5 ratio of 2Hp rating, max input speed 1500 rpm.
4. Exhaust fan/blade: 4 nos. Blade setup, blade angle (40° - 60°), blade diameter (12 inches to 18 inches) mounted on the gear shaft.
5. DC source to power PLC, Voltmeter and Ammeter.
6. Humidity sensor to measure tunnel humidity and feedback to the PLC.
7. Temperature sensor to measure tunnel temperature and feedback to the PLC.
8. Anemometer to show the air speed.
9. Non-contact type (optical) tachometer to show the motor speed.
10. PLC to monitor humidity and temperature and command speed to the VFD display showing fundamental frequency, temperature (separate meter is present), humidity (separate meter is present), provision of turning ON/turning OFF VFD using push button.
11. The user can set initial Temperature and Humidity, Speed change with a change in temperature and humidity.
12. DC powered Digital ammeter and voltmeter to monitor motor voltage and current.
13. The mechanical structure of wind tunnel.
14. Stainless steel chamber for temperature and humidity controller with 3000-watt waterproof heater and jute/puff pad along with water spray gun.
15. Single phase Variac to control heater temperature.
16. A trolley system for the entire set up.
17. Schematic diagram of setup has been provided for further reference.
18. The supplier may be asked for a technical discussion before issuing the purchase order if required.

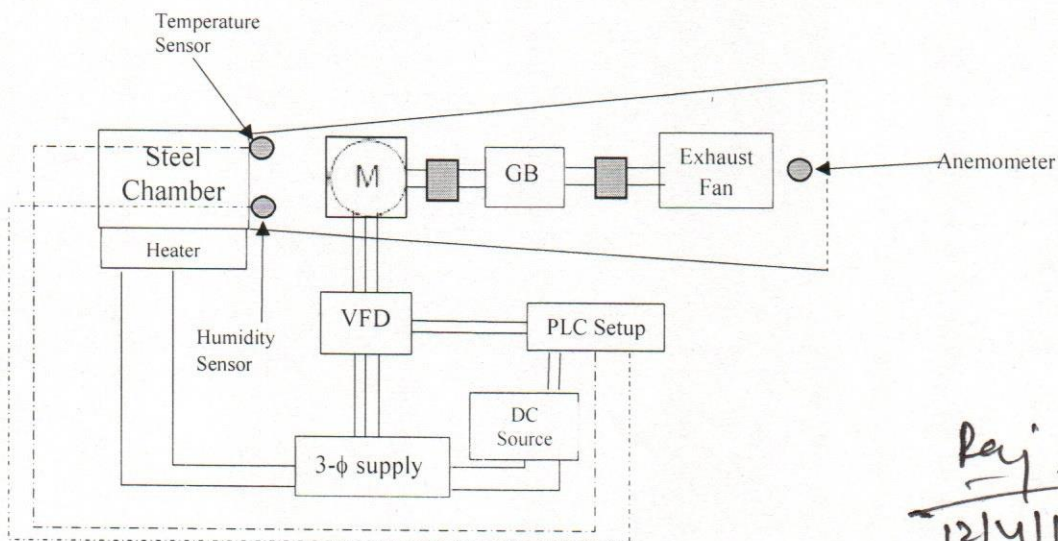


Figure Schematic diagram of setup.

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12/4/13



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Annexure - II

Format for Financial Bid

NIT No.: MME-500551-2016-17

Dated:

Bidders Ref: No.

Dated:

Subject: Supply & Installation of Setup for energy efficient intelligent mine ventilation system

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

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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