



# भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

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

No.: ECE-INS-086-18-19

Date: 05-07-2018

## NOTICE INVITING TENDER

**Subject: Supply and installation of Flow and level control setup Orifice-DPT system with HART compatibility with PC based software for Process parameterization, Data & Graphical trend visualization**

Sir,

Indian Institute of Technology (Indian School of Mines), Dhanbad invites quotations for the following to be supplied and delivered in Flow and level control setup Orifice-DPT system with HART compatibility with PC based software for Process parameterization, Data & Graphical trend visualization Department.

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Flow and level control setup Orifice-DPT system with HART compatibility with PC based software for Process parameterization, Data & Graphical trend visualization (Detailed Specification is given in Annexure – I)	1	At the Earliest

### Tender Schedule

Particulars	Date & Time
Tender Fee	Rs. 500/- (Rs. Five Hundred only)
Bid Security or Earnest money deposit	Rs 11000 (Eleven Thousand Only)
Last date and time for submission of tenders	01.08.2017 at 1:00 P.M.
Date and time of opening of tenders	01.08.2017 at 3.00 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. You may send your representative in the office of the undersigned at the scheduled date and time of opening of tender.
3. 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*



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## Terms & Conditions

- 1) The rates should be quoted for each item separately.
- 2) Conditional offer will not be accepted.
- 3) ***Tender Cost of Rs. 500/- (non refundable) is to be paid by way of Demand Draft drawn in favor of Registrar, ISM payable at Dhanbad. Non-submission will lead to rejection of your bid.***
- 4) IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of GST applicable should be quoted.
- 5) ***Bid Security or Earnest money deposit (EMD):*** should be submitted in form of A/c payee demand draft drawn in favor of Registrar, IIT (ISM) Dhanbad and payable at any other bank/branch located in Dhanbad.
- 6) The successful bidder has to submit performance bank guarantee @10% of total order value within one week from the date of purchase order as per rule.
- 7) ***Educational discount***, if any, should be clearly mentioned.
- 8) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
- 9) Your tender must be valid for **minimum 90 days** from the date of opening of tender.
- 10) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of **12 months**.
- 11) ***Each page in the bid document must be numbered properly*** and duly signed & sealed by the bidder on every page of the bid.
- 12) **The items/ materials shall be required to be delivered at ECE Department/ Section through Purchase & Store Section, IIT (ISM) Dhanbad at the risk and cost of the tenderer.**
- 13) Unloading and installation shall be the complete responsibility of the supplier.
- 14) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
- 15) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 16) ***Advance payment is not admissible.*** Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation of the ordered materials/items and submission of bills, PBG, followed by its verification etc. (as per Purchase Order Terms).
- 17) 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.
- 18) 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.***
- 19) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 20) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

Deputy Registrar



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**Annexure – I**

## **Technical Specifications:-**

### 1. CONTROL :

- i. Micro controller based P I D controller with PC interface
- ii. PLC / DCS based control (Optionally available)

### 2. SENSOR :

- i. Differential Pressure transmitter (HART Compatible) with Orifice.
- ii. Magnetic float type level sensor for level sensing.  
(RF capacitive with 4-20mA output optional.)

### 3. INDICATOR :

- i. Rotameter Flow Indicator 1200 LPH
- ii. 4 ½ Digit digital display for Flow

### 4. MODE :           System can operate in closed loop or open loop

### 5. VALVE :           Pneumatic Diaphragm type Linear OR Equal percentage with I-P converter 1" line size CLOSE on Supply failure. Body CS - SS 316

### 6. FLUID SET UP: 1HP Texmo (or standard make) Centrifugal pump with electric motor, necessary 1" pipelines & 500 Ltr capacity water tanks (storage and overhead tank). Manual valve / Bypass valve mounted on M S Powder coated structure.

### 7. PC and its INTERFACE: Computer (Acer or HP or DELL), RS-232 standard PC interface & Cable

### 8. SOFTWARE: SCADA with Siemens WinCC interactive GUI software with Graphical on line display, Data storage & retrieval, Tabulation, Printing of tables & graphs for offline analysis of data.

### 9. OPERATION MODE: THROUGH-PC optionally Standalone with DDC available

### 10. POWER :       230 V AC Single Phase 5 A.

### 11. ACCESSORIES: All necessary accessories to perform experiment are to be provided with the system. Unit should work without PC but provision for PC interface & necessary software should be included in the cost.

Electric supply, Water supply & clean air supply (0 -20) psi are required externally.



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Annexure - II

## Format for Commercial Bid

Our NIT No.: ECE-INS-086-18-19

Date:

Bidders Ref: No.

Date:

**Sub: Supply and installation of Flow and level control setup Orifice-DPT system with HART compatibility with PC based software for Process parameterization, Data & Graphical trend visualization**

Sl. No.	Full Description of Items with (HSN Code/SAC Code)	Qty.	Rate	Amount
		Packing & Forwarding (if any)		
		<b>Total</b>		
		GST		
		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 GST, HSN Code, SAC Code, duties, livies, transportation cost and insurance costs etc. if any
- 3) All the rates must be quoted in Indian Rupees.