

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्त्व 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. Mech-500282-2017-18

NOTICE INVITING TENDER

Date: 18.10.2017

Subject: NIT No. Mech-500282-2017-18 for Supply and Installation of equipment for robotics lab

Indian Institute of Technology (Indian School of Mines), Dhanbad invites tenders/ quotations for Supply & Installation of following item

S No	Full Description of items/ store	Qty
1	Supply & Installation of equipment for robotics lab	As per Annexure - II
	(Specification as per Annexure –II)	

Particulars of tender cost, earnest money deposit and date and time of submission and opening of tenders are as under:

S No	Items	Particulars	
1.	Tender cost	Rs. 1,000.00 (Rupees One Thousand Only)	
2.	Earnest money deposit	Rs.19,000.00 (Rupees Nineteen Thousand Only)	
4.	Date and time for submission of tenders	08.11.2017 at 1:00 P.M.	
5.	Date and time of opening of tenders	08.11.2017 at 4:00 P.M.	

Tender document containing following document is available on the websites of <u>https://eprocure.gov.in/cppp</u> & <u>www.iitism.ac.in/tender_page</u>, which may kindly be referred.

- 1. General terms & condition as per Annexure-I
- 2. Technical specifications as per Annexure-II
- 3. Financial Bid as per Annexure III

Those firms who do not want to quote may please intimate us along with reasons for same as it will help us to update our suppliers list.

Encl: As above



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Terms & Conditions

<u> Annexure - I</u>

- 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 GST applicable should be quoted.
- 4) Bid Security or Earnest money deposit (EMD): should be submitted in form of A/c payee demand draft drown in favor of Registrar, IIT (ISM) Dhanbad and payable at Dhanbad, Jharkhand.
- **5)** Successful bidders will have to submit Performance Security (PBG) in the form of Bank Guarantee only as per the Purchase Order before releasing payment.
- 6) *Educational discount,* if any, should be clearly mentioned.
- 7) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
- 8) Your tender must be valid for minimum 90 days from the date of opening of tender.
- 9) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of **36 months**.
- **10)** Each page in the bid document must be numbered properly and duly signed & sealed by the bidder on every page of the bid.
- 11) The items/ materials shall be required to be delivered at Mech Department/ Section through Purchase & Store Section, IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 12) Unloading and installation shall be the complete responsibility of the supplier.
- 13) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
- 14) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- **15)** 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.
- **16)** 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.
- **17)** 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.*
- **18)** Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- **19)** IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

Deputy Registrar



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SI. /	Features	Qualifying Minimum Requirements
	Robotic ARM with 3 <i>15</i> Degree of Freedom	Load capacity:- 2 KG Application:- Loading and Unloading Material Ambient Temperature:- 0-55 deg C Repositioning Precision:- +1-1mm Max Programming Platform: LabVIEW Software Movement, Rotation, Choice of Different Loading Material, Control Logic can be programmed as per requirement.
_	Saw Blade Robot with Automated Safety Controller	Machine will automatically detect if any human contact happen with the High Speed Blade and control it accordingly. Programming Platform: LabVIEW Software
	ROBOTIC ARM 6 DOF DIY KIT WITH USB SERVO CONTROLLER AND SOFTWARE	Controllable through Rhino Robot Control Board, Arduino or any other microcontroller capable of driving 6 RC Servos to control the robotic arm directly
4	ROBOBOX : PRE- PROGRAMMED, PICK & PLACE RCIAUTO ROBOT - DIY KIT	The robot should work as Line follower, Obstacle avoider, Wall hugger, Remote Controlled racing car, Remote Controlled Pick & Place robot etc.
5	6 LEGGED INTELLIGENT HEXAPOD DIY <i>WIT</i> 18 SERVO CONTROLLER	The robot should complete forward, backward, turn, dancing, and climbing motion.
-	AUTONOMOUS OUTDOOR ROBOT - 7 KG PAYLOAD DIY KIT	The robot with 4 High Torque DC Geared motors and High quality 10 CM wheels. The robot has a payload capacity of 7 KG weight on flat surfaces and up to 3 KG on rough terrain. The robot should be controlled through Rhino Robot controller board which is powered by AVR Atmega16A microcontroller
	Micro-controller Small Line Tracking Smart Car Line Following Robot LFR DIY Kit	ATmega8 Microcontroller Board with Atmega8, L293D & HT92B70 IC
8	ARDUINO WITH SENSORS AND COMPONENTS KIT	1 Arduino, 1 breadboard, ultrasonic sensor, accelerometer module 3 axis, Temperature and humidity sensor, gas sensor, hall effect sensor, potentiometer
9	ARDUINO STARTER KIT COMPLETE	1x Arduino uno(made in India), 1xBreadboard, 2x IR Sensor(High Sensitive) 1x Object Counter Project, 1x SMPS Adaptor 12 volts 1AMP 30xM/M-10xM/F Cables, Motor +Fan, 1x LCD 1602, 2x Burg Strip 16 pin M/F, 10x Transistors S-NPN and S-PNP, 2x MOSFET 1x N-Channel, 1x P- Channel, 70x Resistors (Useful Values)
-	Arduino Uno R3 ATmega328P Compatible with USB Cable	14 digital input/output pins (of which 6 can be used as PWM outputs), 6 analog inputs
11	Beaglebone Black	512MB DDR3 RAM, 4GB 8-bit eMMC on-board flash storage, NEON floating- point accelerator
12	Raspberry Pi Camera	Smp camera module, capable of 1 080p video and still images and connects directly to Raspberry Pi
13	Raspberry Pi 3 Model B	1.2GHz, 64-bit quad-core ARM Cortex-A53
14	Intel Gallileo	ntel® Quark SoC X1000 Application Processor, a 32-bit Intel Pentium-class system on a chip, Digital pins 0 to 13 (and the adjacent AREF and GND pins), Analog inputs 0 to S, the power
		header, ICSP header
15	Arduino Lilypad	Based on ATmega328V



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16	Vision Based Robots	Set-up Consist of (a) Colour based Recognition, (b) Pattern Based		
		Segmentation, configurable smart cameras with the included Vision Builder		
		for Automated Inspection (AI) software and program the camera with the		
L>		LabVIEW Real-Time Module and the Vision Development Module.		
17/	STANDARD SERVICE	System Configuration, Assembly, and Test		
	PROGRAM FOR			
	SYSTEMS			
18	Delivery, Installation	Delivery:- Delivery and assembly and installation at our laboratory at		
	and Training	IIT(ISM) Dhanbad.		
		Training:- Onsite Training for Two days covering basics and core Training		
		with study Material		
19	Warranty	1 year		

GSTIN : 20AAAAI0686D1ZA भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद धनबाद, झारखण्ड, भारत, पिन-826004 (मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्त्व 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)

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Format for Financial Bid

NIT No.: Mech-500282-2017-18

Bidders Ref: No.

Date:

Date:

Annexure - III

GSTIN No.:

Subject: Supply & Installation of Desktop Computer

Sl.	Full Description of Items with (HSN Code/SAC	Qty.	Rate	Amount
No.	Code)	_		
		Packing &		
		Forwarding (if any)		
		Total GST		
		Freight (if any)		
		Installati	on (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 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.