

धनवाद, 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. MME-500290-2017-18

Date: November

, 2017

Corrigendum-1

<u>Subject:</u> Submission of Bids for Supply and Installation of Micro Controller Unit with Lora Based Transeiver Modeul -04 Nos. & LORA GATEWAY -01No.

Reference: NIT No. MME-500290-2017-18 dated 13th November, 2017

Following are the amendments in the above referred NIT:

Existing Contents:

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Micro Controller Unit with Lora Based Transeiver Modeul	04 Nos	
	(Detailed specification is given in Annexure ·1)		At the Earliest

Now Read as:

S No	Full Description of items/ store	Qty	Delivery	
1	Supply & Installation of Micro Controller Unit with Lora	04 Nos		
	Based Transeiver Modeul		At the Earliest	
2	2 LORA GATEWAY 01 No.			
(

The others contents, terms & condition of the NIT will remain the same

Deputy Registrar



धनवाद, 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. MME-500290-2017-18

Date: November

, 2017

NOTICE INVITING TENDER

Subject: Supply & Installation of Micro Controller Unit with Lora Based Transeiver Modeul

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 Micro Controller Unit with Lora		
	Based Transeiver Modeul		
2	LORA GATEWAY	01 No.	At the Earliest
(

Tender Schedule

Particulars	Date & Time		
Bid Security or Earnest money deposit	Rs 8,500.00 (Eight Thousand Five Hundred Only)		
Last date and time for submission of tenders	01.12.2017 at 3:00 P.M.		
Date and time of opening of tenders	01.12.2017 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. 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



धनवाद, 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@litism.ac.in || Website: www.iitism.ac.in

No. MME-500290-2017-18

Date: November

, 2017

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 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 any other bank/branch located in Dhanbad.
- 5) Educational discount, if any, should be clearly mentioned.
- 6) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
- 7) Your tender must be valid for minimum 90 days from the date of opening of tender.
- 8) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of 12 months.
- 9) Each page in the bid document must be numbered properly and duly signed & sealed by the bidder on every page of the bid.
- 10) 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.
- 11) Unloading and installation shall be the complete responsibility of the supplier.
- 12) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
- 13) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 14) Advance payment is not admissible. Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation, PBG submission etc (as per Purchase Order Terms) of the ordered materials/items.
- 15) 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.
- 16) 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.
- 17) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 18) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

Deputy Registrar



धनवाद, झारखण्डं, 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. MME-500290-2017-18

Date: November

, 2017

Annexure – I Item 1 Specification MICTROCONTROLLER UNIT WITH LORA BASED TRANSCEIVER MODULE

SL	Specification	Value		
	Co	ontroller unite Specification		
1.	MICROCONTROLLER	ATmega 1281 or Better one		
2.	Frequency	8MHz or More		
3.	EEPROM	4KB or More		
4.	FLASH MEMORY	128 KB or more		
5.	SD card capability	YES(2GB or more)		
6.	Weight	20 gm or less		
7.	Dimension	73.5 x 51 x 13 mm or less		
8.	Temperature range	-20°C, +65°C		
9.	Humidity	20% to 90%, non-condensing		
10.		Consumption		
	ON:	9mA or less		
	Sleep:	62μA or less		
	Deep Sleep:	62μA or less		
	Hibernate:	0.7μA or less		
11.	Interface Capabilities	• UART		
		• SPI		
		• I2C		
12.	RTC	32 kHz or more		
13.	WATCHDOG Timer	32 KHZ OF HOLE		
13.		Electrical characteristics		
	Battery voltage	3-5 volts		
	USB charging	5 V - 480 mA(Max)		
	Solar panel load	6-12 V - 300 mA(Max)		
14.	Input / Output	7 or more analog inputs, 8 or more digital I/O		
		2 or more UARTs, 1 I2C, 1 SPI, 1 or more USB		
	LORA BASED	TRANSCEIVER MODULE SPECIFICATION		
15.	protocol	LoRaWAN 1.0, Class A		
16.	Form factor	17.8 x 26.7 x 3.34 mm or small		
17.	Weight			
18.	Interface	• UART		
		• SPI		
		• I2C		
19.	Operating voltage	2.1V to 3.6V		
20.	Current consumption	38.9 mA or less		
21.	Frequency	868 MHz ISM frequency band		
22.	TX power	TX Power: up to +14 dBm or less		
23.	Range	Sub urban: 14 km or more		
		Urban :4 km or more		



धनवाद, 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@litism.ac.in || Website: www.litism.ac.in

No. MME-500290-2017-18

Date: November

, 2017

Item 2 Specification LORA GATEWAY

24.	Packet Data	Up to 100 Mbps downlink, Up to 50 Mbps uplink
25.	Radio Frequency	LoRa 868 MHz
26.	Storage	Micro SD
27.	Input Voltage	9 volt or less
28.	Connectors	Ethernet 1 RJ-45 Ethernet 10/100 port
29.	Dimensions (L x W x H)	6.35" x 4.23" x 1.69" (161.3 mm x 107.4 mm x 42.8 mm) Or less
30.	Weight	500 grams or less
31.	Chassis Type	Metal
32.	Environmental Operating Temperature	-30° to +70° C*
33.	Storage Temperature	-40° to +85° C
34.	Relative Humidity	20% to 90%, non-condensing



धनवाद, 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. MME-500290-2017-18

Date: November

, 2017

Annexure - II

Format for Financial Bid

NIT No.: MME-500290-2017-18	Date:

Bidders Ref: No. Date:

GSTIN No.:

Subject: Supply & Installation of Micro Controller Unit with Lora Based Transeiver Modeul

Sl. No.	Full Description of Items with (HSN Code/SAC Code)	Qty.	Rate	Amount
		.,		
		Packing &	Packing & Forwarding (if any)	
		Total		
		GST Freight (if any)		
		Installa	tion (if any)	
Amount	should be in figure as well as word		Frand 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.