



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA – 769 008, ODISHA**

Advertised Tender Enquiry

Department: Electronics and Communication Engineering

Tender Notice No: NITR/PW/EC/2019/130

Date: 05/07/2019

To

Event	Date	Time
Pre-bid Meeting	NA	NA
Last date of submission of bid	29/07/2019	11:00 AM
Date of opening of techno-commercial bid	30/07/2019	11:00 AM

**Through
CPP Portal
(E-procurement)**

Dear Sir,

We intend to purchase the commodities specified below and invite quotations in accordance with the terms and conditions detailed in the bid document. If you are interested, kindly send your offer with prices and complete terms within the time mentioned above.

For any clarification:

Attention: Head, Department of Electronics and Communication Engineering
Dr. S. K. Das (Assistant Professor)
Department of Electronics and Communication Engg.
National Institute of Technology, Rourkela – 769 008
Phone: 0661 – 2462466
Fax: 0661 – 2462999
E-mail: dassk@nitrrkl.ac.in

Yours sincerely,

Dr. Santos. Ku. Das(Assistant Professor)
Electronics and communication engineering
PID: - SR/17/EC/052
DRDO

Encl:

- 1) Schedule of requirement, specifications, dates etc.**
- 2) Bid document containing detail terms and conditions.**

1. **Schedule of requirements**

SL.NO	Description of Goods/Service	Quantity
01	SMD Rework Station Set	1
02	Arduino Mega 2560 with USB cable.	3
03	ZigBee pro long range wireless module with antenna	5
04	GSM/GPRS module	3
05	Lora Module With Berg connector	3
06	Temperature Radiation Shield	1
07	Web camera for Desktop	1
08	Weather Station Kit with Anemometer/Wind Vane/Rain Bucket	1
09	IP camera	1

2. Specifications and allied Technical Details: As per the specification attached in the ***Annexure-I***

3. Format of Quotation (tick appropriate box)

It is a two-part with separate techno-commercial and price bids.

4. The bid should be submitted through <https://eprocure.gov.in/eprocure/app>

5. Quotations should be valid for a period of **90 days** from the date of opening of techno-commercial bid.

6. Some important dates:

i.	Pre-bid Conference	Date:	NA	Time:	NA
ii.	Last date of submission of bid	Date:	29/07/2019	Time:	11:00 AM
iii.	Opening of techno-Commercial bid	Date:	30/07/2019	Time:	11:00 AM

7. **Warranty** as per company policy.

8. **GST:** GST should be charge according to applicable rates.

9. **Tender Fee:** Tender cost (Non- refundable) in the shape of **Demand Draft** for **INR 500/- (Rupees Five hundred only)** in favor of **Director, NIT Rourkela** Payable at Rourkela from any Scheduled Commercial Bank except Co-operative and Gramin bank. Tender Cost should reach physically through speed post/ register post/courier, containing in an envelope & superscripted with subject, tender reference number addressing to **Registrar, NIT Rourkela- 769008, Odisha;** Attention: HOD (EC) **on or before 30/07/2019 at 11:00 AM.**

10. **Bid Security: Bid Security (EMD)** in the shape of **Demand Draft** for **INR 14000/- (Rupees Fourteen thousand only)** in favor of **Director, NIT Rourkela** Payable at Rourkela from any Scheduled Commercial Bank except Co-operative and Gramin bank. And DD for the Bid-Security should remain valid for a period of 45 days beyond the bid validity period from the date of opening of bids. Bid security of unsuccessful bidders should be return to them at the earliest and latest on or before the 30th days after the award of the contract. EMD (Earnest Money deposit) should reach physically through speed post/ register post/courier, containing in an envelope & superscripted with subject, tender reference number addressing to **Registrar, NIT Rourkela- 769008, Odisha;** Attention: HOD(EC) **on or before 30/07/2019 at 11:00 AM.**

11. **Performance Security:** Not applicable
12. Please go through the enclosed "bid document" carefully for other bidding instructions.
13. Please send your quotations through: <https://eprocure.gov.in/eprocure/app>
14. For technical details, you may contact

Dr. S. K. Das (Assistant Professor)
Department of Electronics and Communication Engg.
National Institute of Technology, Rourkela – 769 008
Phone: 0661 – 2462466
Fax: 0661 – 2462999
E-mail: dassk@nitrkl.ac.in

NB: Please furnish your Dealership Certificate (must) and Proprietary Nature Certificate (If applicable)



NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA – 769 008, ODISHA

BID DOCUMENT

1. Instructions to the bidders

- 1.1 Bids are invited on behalf of the Director, National Institute of Technology (NIT), Rourkela–769008, ODISHA, from the intending bidders for supply of the goods/stores/ equipment for the Institute as detailed in the enquiry letter.
- 1.2 The bidders should quote their offer/rates in **BOQ** in clear terms without ambiguity.
- 1.3 In case of any discrepancy between the rates in figures and that in words, the rate in words will be accepted as correct.
- 1.4 The last date for receipt of the bid is marked in the enquiry.
- 1.5 The bids should be uploaded in <https://eprocure.gov.in/eprocure/app>. Please follow the guidelines of the site.
- 1.6 If a prospective bidder requires any clarification in regard to the bidding documents, s/he may make a request the concerned officer or faculty member at least 15 days before the deadline for receipt of bids.
- 1.7 Each bidder shall submit only one bid. A bidder, who submits more than one bid, shall be disqualified and considered non-responsive.
- 1.8 (In respect of high value plant, machinery etc. of a complex and technical nature). The bids may be submitted in two parts, viz., technical bid and financial bid.
- 1.9 The bidder has to sign in full at all pages of the scanned part of the bidding document. No over- writing in those pages is acceptable.

2. Conditions of the bid

- 2.1 The rates quoted should preferably be net, inclusive of packing, forwarding, freight, Insurance and all other incidental charges excluding taxes. In case these charges are quoted extra in addition to the quoted rates, the amount thereof or ad-valorem rate must be specified. Packing, forwarding, freight, etc., when quotes separately are reimbursable at actuals. If external agencies are employed, their receipts must be enclosed with the invoice.
- 2.2 Duties and Taxes are to be quoted separately. Ad-valorem rates thereof should be clearly indicated with reference to the relevant Acts and Rules.

It may be noted that the Institute is availing custom duty exemption in term of notification no 51/96- Customs dt. 23.07.1996, Notification no.- 47/2017- Integrated Tax (Rate) dt. 14.11.2017 and Notification No- 45/2017- Central Tax (Rate) dt.14.11.2017 [vid Registration No.: TU/V/RG-CDE (227)/2016, dated 13.11.2018]

- 2.3 The goods are required to be delivered at the indenting Department of NIT, Rourkela, and must be reached within **30 days** from the date of placement of the supply of order under the risk and arrangement of the bidder and offers with delivery beyond the above period shall be treated as unresponsive. In case the delivery time is higher, the same must be mentioned clearly in the quotation.

- 2.4 The bid should remain valid for a period of **90 days** from the date of opening. In case your offer has a different validity period that should be clearly mentioned in the quotation.
- 2.5 Conditional discount, if any, offered by the bidder shall not be considered at the time of evaluation.
- 2.6 The goods offered should strictly conform to the specification and technical details as mentioned in schedule of requirements in the tender documents.
- 2.7 The Institute may like to conduct pre-dispatch inspection of goods, where applicable.
- 2.8 Period of guarantee/warranty, where applicable, should be specified in the bid.
- 2.9 If the successful bidder, on receipt of the supply order, fails to execute the order within the stipulated period, in full or part, it will be open to the Director, NIT, Rourkela to recover liquidated damage from the firm at the rate of 1 percent of the value of undelivered goods per month or part thereof, subject to a maximum of 5 percent of the value of undelivered goods. Alternatively, it will also be opened to the Director, to arrange procurement of the required goods from any other source at the risk and expenses of the bidder.
- 2.10 The successful bidder may be required to execute a contract, where applicable.
- 2.11 The bidder has to furnish up to date GST and Income Tax Clearance Certificate along with the bid.
- 2.12 Payment (*100 percent*) will be made by Account Payee Cheque/Bank Draft, within 30 days from the date of receipt of the goods in good condition or receipt of the bill, commissioning of the equipment, where applicable, whichever is later/latest.
- 2.13 In the event of any dispute arising out of the bid or from the resultant contract, the decision of the Director, NIT, and Rourkela shall be final.
- 2.14 The bid document/resultant contract will be interpreted under Indian Laws.

DETAILED TECHNICAL SPECIFICATION AND QUANTITY

Purchase of Hardware Components

SL. No.	ITEM NAME	TECHNICAL DESCRIPTION	QUANTITY
1	SMD Rework Station Set	1) Voltage 230 V (50/60 Hz) 2) Max. vacuum 0,7 bar 3)Max. hot air flow rate l/min (depends on tool) 15. 4)Capacity l/min 18 5) Power 420 W (600 W) 6) Built-in pump Periodic duty 30/30 s 7) Temperature stability (in°C) ±2 8) Temperature stability (in °F) ±4 9)Temperature range (depends on tool) (in °C) 100 - 450 (550) 10)Temperature range (depends on tool) °F 200 - 850 (999) 11)USB port on 12)Display 255 x 128 dots / Backlighting 13)Overcurrent release 2,0 A 14)Temperature accuracy (in °C) ±9 15)Channels 3 16)ESD-safe on 17)Power cable type EMEA 18)USB interface of firmware updates, parameterization and monitoring USB interface supports all standard USB flash drive types. (Preferred Waller Brand WXR 3032 model only)	1 Set
2	Arduino Mega 2560 with USB cable.	Microcontroller ATmega1280 Operating Voltage 5V Input Voltage (recommended) 7-12V Input Voltage (limits) 6-20V Digital I/O Pins 54 (of which 15 provide PWM output) Analog Input Pins 16 DC Current per I/O Pin 40 mA ADC Current for 3.3V Pin 50 mA Flash Memory 128 KB of which 4 KB used by bootloader SRAM 8 KB EEPROM 4 KB Clock Speed 16 MHz	3

3	ZigBee pro long range wireless module with antenna	Operating Voltage:2.7 V to 3.6V Frequency:-2.4 GHz Range: 2 mile Data Rate: 250 kbps Sensitivity: – 101 dBm Output Power: 63 mW Maximum Operating Temperature: + 85 C Antenna Connector Type: RPSMA Brand: Digi International Dimensions:-3.294 cm x 2.438 cm Interface Type: SPI, UART	5
4	GSM/GPRS module	Quad-band 850/900/1800/1900MHzBluetooth connectivity,Configurable Baud rate (9600-115200, factory default value: 9600),Standard Audio Jack Connectors for external speaker and mic,Selectable interface between hardware serial port and software serial port,Inbuilt Powerful TCP/IP protocol stack for internet data transfer over GPRS.SMA Connector with external antennaInput Voltage: 5V-12V DCNormal operation temperature: -20 °C to +55 °C	3
5	Lora Module With Berg connector	Operating Renege: 1.8 – 3.7V, default 3.3V. Wireless Standard: 433MHz. Frequency range: 420 – 450MHZ. Port: SPI/GPIO. Working temperature: -40- +85 degrees. Pin pitch: 2.0 mm. Distance :10 KM in Open Area.	3
6	Temperature Radiation Shield	compatible to RTD 100 temperature sensor	1
7	Web camera for Desktop	Simple plug-and-play setup and an easy-to-use universal clip, High-resolution snapshots at up-to 5 megapixels.	1
8	Weather Station Kit with Anemometer/Wind Vane/Rain Bucket	Operating voltage: 5V,Temperature range: -40~80°C , Humidity range: 0~99%	1
9	IP camera	8MP Network IP Camera4K Video Resolution 3840x2160 pixels15fps Recording Capability at Ultra HD 4K,H.265+, H.265, H.264+, H.264Triple Video StreamsDigital WDR, Noise Reduction, Back Light CompensationDay & Night IR Cut Filter4mm Fixed Lens - 87° Angle of View130ft Night VisionMicroSD card slot supports up to 128GB	1

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