

No. F5(1011)ST/MNIT/EE/2018

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**NOTICE INVITING QUOTATIONS**

1. Deputy Registrar (Stores & Purchase), Central Stores, MNIT, JLN Marg, Jaipur invites sealed tenders for the supply of “**Real Time DSP Controller**” for **Department of Electrical Engineering** of this Institute in **Single bid system**. As per schedule given below

Event	Date & Time
Download of Tender	31.05.2019
Bid submission	19.06.2019 by 2.00 PM
Quotation will be opened at	19.06.2019 at 3.00 PM
Earnest Money	Rs.33,000/- in the name of The Registrar, MNIT and payable at Jaipur <b>(Kindly attached the RTGS details with cancelled cheque along with the Earnest Money)</b>

Quotation must be enclosed in a properly sealed envelope addressed to the MNIT, Jaipur with kind attention to Deputy Registrar (S&P), MNIT, Jawahar Lal Nehru Marg, Jaipur -302017 by designation and not by name. The quotations must be super scribed “Quotations for the supply of **Real Time DSP Controller** ----- as called for in Tender Notice No. ----- dated \_\_\_\_\_”DUE ON----- AT -----AM/PM. The Quotation must reach on or before --- ---AM/ PM on or before the due date and time mentioned in the tender notice/tender document. The documents must be dropped in the tender box available in Central Store during office hours (9.30am to 6.00pm) on all working days. Bids delivered to any other place or any individual shall not be considered as valid document. Quotations sent by e-mail will not be considered valid. Tender documents may be downloaded from institute’s web site [www.mnit.ac.in](http://www.mnit.ac.in) and CPPP site <https://eprocure.gov.in/epublish/app>

2. **THE RATES QUOTED SHOULD BE F.O.R. JAIPUR inclusive of all charges related to transportation from your end to MNIT, Jaipur in local currency. For imported items, the rates are to be quoted FOR destination (MNIT, Jaipur) only. In case the rates are quoted CIF/CIP New Delhi, then it will be the responsibility of the supplier to intimate us well in advance prior to dispatch and submission of all the relevant documents in time which will be required in clearing the consignment from Custom. If, there is delay in sending the documents and demurrage is imposed, then it will be in the account of foreign supplier. Kindly note that if any amendment is required in LC, after its establishment, the Bank Charges in this respect will be in the account of beneficiary only.** The rates and units shall not be overwritten. Quotations shall always be both in the figures and words. The words “No quotations” should be written across any or all of the items in the schedule for which a tender does not wish to tender.  
**Cost of each item should be quoted separately giving the unalterable delivery period. Rates of imported goods must be quoted excluding custom duty & GST as this institution is exempted from payment of custom & GST.**

3. As far as possible, quotations should be given for goods of India manufacture which are readily available. Foreign goods quoted and proposed to be supplied should be covered by normal import quota of the dealer. This institute is exempted from payment of custom duty.
4. Detailed specifications and "make" of each item should be clearly given supported by the illustrated pamphlets wherever possible. Quotations without specifying the make and other particulars may be rejected. The accessories included in the equipment should also be clearly mentioned.
5. Losses or damage in transit will be in to the account of the supplier in case of rates **F.O.R. JAIPUR**. The supplier may, if he so desires, get the goods insured and include such charges in the tendered rate.
6. The payment for the ordered items would be made after the articles have been received and found in order. **Payment will be made by RTGS. Kindly send the RTGS details and cancelled cheque along with the Invoice. The payment to foreign supplier will be made through FDD/Wire Transfer OR Letter of Credit as the case may be.**
7. Your rates should be valid at least for three months from the last date of opening of bid.
8. All legal proceedings, if necessity arises to institute may be any of the parties (Institute or Contractor/Supplier) shall have to be lodged in the courts situated at Jaipur and not elsewhere.
9. The institute is not bound to accept the lowest tender and may reject any tender or any part of the tender giving justification for such an action.
10. The quotations should preferably be sent duly typed.
11. (a) The Penalty Clause is as under :-

If the seller fails to deliver any or all of the Goods/Services within the original /re-fixed delivery period specified in the Purchase Order, this Institute will be entitled to deduct/recover the Liquidated Damages for the delay at the following percentage:

(i)	Delay up to one month	1%
(ii)	Delay exceeding one month but not exceeding two month	2%
(iii)	Delay exceeding two month but not exceeding three month	5%
(iv)	Delay exceeding three month	5% for each month and part there of subject to maximum 10%

- (b) In case of failure to supply the goods within the prescribed time and in accordance with the specifications give in the Quotations, the institute shall be free to cancel the order and make purchases from the next higher tenderer or from the open market as the case may be. In that case the loss sustained by the institute shall be recovered from the defaulting supplier. The institute will be at liberty to recover the loss from the permanent earnest money/or any other pending claims of the supplier without prejudice to its general right to affect recovery from the supplier.
12. The prospective bidders can be those who are the manufacturers of the equipment. For items manufactured outside India, the manufacturer itself can be a bidder or its authorised Indian agent can bid on behalf of its Principal that is the manufacturer.
13. In the event, the country of origin of goods is India, only the manufacturers shall be considered eligible for bidding. Authorised agents of Indian manufacturers may be permitted to submit the bid, provided the concerned manufacturer states that as its policy, it does not bid itself in India and that there is no qualitative difference between manufacturer and its agent as bidder in respect of quality of

supplies, cost, and responsibility of maintenance and servicing. The Indian manufacturer must describe the alternatives in clear terms, in the event the bidding agent ceases to continue as agent of the concerned manufacturer within the stipulated warranty period.

14. If any Indian manufacturer requires importing an essential part from a foreign country, the said company may be given to enjoy the benefit of customs duty exemption with the aid of CDEC of MNIT, Jaipur provided the import of the concerned item is done on behalf of MNIT, Jaipur.
  
15. **Quotation will be submitted in the following manner:**
  - a) Bidder shall enclose Earnest Money Deposit (EMD).
  - b) Bidder must be a manufacturer/authorized distributor/ Dealers must enclose a certificate of authorization of manufacturer with the bid.
  - c) All Indian agents of foreign company must provide valid proof that they are the agent in India on behalf of the manufacturer; any proof without due certification from the manufacturer under its own letter head shall be void *ab initio*.
  - d) The manufacturers should supply documentary proof i.e. Registration with the Registrar of Industries, National Small Scale Industries Corporation or with penal of MNIT in case of manufacturer. Offers other than the manufacturers should be supported with an authority letter from the manufacturers, authorizing them to quote rates standing guarantee for the satisfactory execution of supply orders failing which offers are liable to be ignored.
  - e) One declaration by the Manufacturer to the extent that in case of failure of its local agent /office to provide service support to the satisfaction of MNIT Jaipur, it shall make immediate arrangement for required service support.
  - f) **Bidder should enclose technical compliance from the Manufacturer. The specifications of items should be strictly as specified. Deviation, if any may please be mentioned separately. If there is no deviation than it should be mentioned as “No Deviation”.**
  - g) The leaflets catalogue, related to quoted equipment/model etc. should be sent invariably, so that a proper evaluation of the equipment offered is possible.
  - h) Mention must be made of the pre-installation requirements for the equipment quoted viz. ambient temperature, humidity, weather specifications, power specifications, civil works etc. When items are provided full performance satisfaction should be demonstrated.
  - i) Bidder must enclose the acceptance of terms and conditions and must enclose the duly signed and stamped tender document.
  - j) All the Annexure enclosed should be duly filled up and signed.
  - k) Please attach proof/certificate of each condition required in the tender document.
  
16. **Delivery Period:-** The ordered quantity of stores must be delivered within 6 to 8 weeks in the case of indigenous equipment and 14 to 16 weeks in the case of imported equipment, F.O.R. Destination MNIT, Jaipur at Supplier’s Risk within the period specified and got inspected as the delivery of store is required urgently and as such the renderers should quote their earliest delivery period accordingly. The extension of delivery period after placing the PO, if required, will be considered only on genuine reasons and proper justifications only.
  
17. **Installation:** - Successful BIDDER shall depute concerned specialist, for supervision of erection & commissioning of the machine to be carried out as and when necessary. The successful BIDDER shall make necessary arrangements during the entire warranty period at their own expenses for stay, transport and other expenses of their specialist during their stay in Jaipur;

18. **Performance Bank guarantee**  
Successful Bidder has to Provide Performance security @ 10% of the equipment cost, valid for entire warranty period given in their offer which should be in the form of Bank's Guarantee from a commercial bank. Warranty will cover repair/replacement of all defective parts, if any, with the same or equivalent make for any part removed. Maintenance will be provided at site. Limited/carry in warranty will not be accepted. The supplier will provide after sale service during the warranty period from nearest place to installation. The supplier will attend the complaint within 24 working hours and not beyond 5 working days.
19. EARNEST MONEY: A Demand Draft/Banker's Cheque or Bank Guarantee of Rs. 33,000/- from a Commercial bank only in the name of the Registrar, M.N.I.T. and payable at Jaipur may please be sent along with your tender as Earnest Money **without which no tender shall be considered. Cheques are not accepted as earnest money amount.** No interest is paid by us on the amount of earnest money. **Kindly attached the RTGS details with cancelled cheque along with the Earnest Money.**
20. **Arbitration Clause: - In the eventuality of any dispute, the sole Arbitrator shall be Registrar, MNIT, Jaipur and his decision shall be binding on all the parties.**
21. While submitting the tender, the **GST Registration No. & E-mail Address** is to be mentioned by the bidder positively. Failing this, there bid will be treated as non responsive. & Kindly provide
22. Specification Enclosed as annexure 1<sup>st</sup>

Deputy Registrar  
(Store & Purchase)

Sr. No.	Item Specification	Qty
01	<p><b>Real Time DSP Controller</b></p> <p>General:            It must have Dual Core 2 GHz processor board DS 1302 I/O board, top panel, carrier bag, CDP-MP Control Development Software package, RTI_EM_CBS_USB Complier with USB dongle, Installation and Commissioning charges extra.            Compact all-in-one development system for laboratory purposes.            Dual-core real-time processor at 2 GHz.            User-programmable FPGA.            More than 100 channels of high-performance I/O.            Dedicated electric motor control features.            Ethernet and CAN bus interfaces.            Easy I/O access via integrated connector panel.</p> <p>Processor            Real-time processor: Freescale QorIQ P5020, dual-core, 2 GHz 32 KB L1 data cache per core, 32 KB L1 instruction cache per core, 512 KB L2 cache per core, 2 MB L3 cache total.            Host communication co-processor: Freescale QorIQ P1011 800 MHz for communication with host PC.</p> <p>Memory :            1 GB DRAM ,            128 MB flash memory.</p> <p>Boot time:            Autonomous booting of applications from flash (depending on application size), ~5 s for a 5 MB application.</p> <p>Interfaces:            Host interface: Integrated Gigabit Ethernet host interface.            Ethernet real time I/O interface: Integrated low-latency Gigabit Ethernet I/O interface.            USB interface: USB 2.0 interface for data logging ("flight recorder") and booting applications via USB mass storage device (max. 32 GB supported).            CAN interface :2 CAN channels (partial networking supported)            Serial interface : 2 x UART (RS232/422/485) interface            LVDS interface : 1 x LVDS interface to connect with the Programmable Generic Interface PGI1.            Programmable FPGA1) : Xilinx® Kintex®-7 XC7K325T FPGA.</p> <p>Analog input:            Resolution and type :            8 14-bit channels, 10 Msps, differential; functionality: free running mode .            24 16-bit channels, 1 Msps, differential; functionality: single conversion and burst conversion mode with different trigger and interrupt options</p>	01 Nos

Input voltage range : -10 ... 10 V.

Analog output:

Resolution and type :16 16-bit channels, 1 Msps, settling time: 1  $\mu$ s

Output voltage range :-10 ... 10 V

Output current :  $\pm$  8 mA

Digital I/O:

48 bidirectional channels, 2.5/3.3/5 V (single-ended); functionality: bit I/O, PWM generation and measurement (10 ns resolution), pulse generation and measurement (10 ns resolution), 4 x SPI Master  
12 bidirectional channels (RS422/485 type) to connect sensors with differential interfaces.

Electric motor control I/O functionality:

Separate interfaces : 2 x Resolver interface

Functionality on digital I/O channels:

6 x Encoder sensor input

2 x Hall sensor input

2 x EnDat interface

2 x SSI interface.

Synchronous multi-channel PWM

Block commutational PWM.

Sensor supply :

1 x 12 V, max. 3 W/250 mA (fixed).

1 x 2 ... 20 V, max. 1 W/200 mA (variable).

Feedback elements:

Programmable buzzer.

Programmable status LEDs.

Theft protection: Kensington® lock.

Cooling: Active cooling (temperature-controlled fan).

Physical connections:

4 x Sub-D 50 I/O connectors.

4 x Sub-D 9 I/O connectors.

2 x Sub-D 50 I/O connectors.

48 x BNC I/O connectors.

4 x Sub-D 9 I/O connectors.

2 x Sub-D 9 I/O connectors.

27 x spring-cage terminal block connectors with 8 pins each.

3 x RJ45 for Ethernet (host and I/O).

USB Type A (for data logging).

2 x 2 banana connectors for sensor supply ,, Power supply.

Temperature :0 ... 50 °C (ambient temperature)

Power supply :100 ... 240 V AC, 50 ... 60 Hz

Power consumption: 125 W

**Deputy Registrar (S&P)**